

## 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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## RATES, RULES AND CHARGES

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21. Optical Carrier Network (OCN) Point-to-Point Service21.1 General Description

OCN Point-to-Point service will be designed to provide the customer with a custom point to point linear network. The Optical Point-to-Point service will offer a highly reliable transport service that is designed to connect customer locations and SBC wire centers in a linear (point to point) configuration. Large volumes of information can be transported between two locations in a dedicated, high-bandwidth optical path. Specifically, the OCN Point-to-Point services can handle voice, data, video, imaging, Internet traffic and other advanced broadband applications.

Rates and charges for Optical Carrier Network (OCN) Point-to-Point Service are set forth in Section 21.3 following, with the exception of the services provided by the Telephone Company in the Metropolitan Statistical Areas (MSAs) in which the Telephone Company has received Phase II pricing flexibility pursuant to Subpart H of Part 69 of the Commission's Rules. The rates and charges for the Optical Carrier Network (OCN) Point-to-Point Service in the MSAs that have received Phase II pricing flexibility are set forth in Section 22.

OCN Point-to-Point channels provide high speed synchronous optical fiber-based full duplex data transmission capabilities between two points. These services provide optical data transmission with the following characteristics:

- OC-3/OC-3c provides channels operating at the terminating bit rate of 155.52 Mbps;
- OC-12/OC-12c provides channels operating at the terminating bit rate of 622.08 Mbps;
- OC-48/OC-48c provides channels operating at the terminating bit rate of 2488.32 Mbps;
- OC-192/OC-192c provides channels operating at the terminating bit rate of 9953.28 Mbps; (N)

OC-3, OC-12, OC-48 and OC-192 channels may be used to connect:

- a customer designated premises to another customer designated premises, without the add/drop multiplexing capability.
- a customer designated premises to a Telephone Company location where add/drop multiplexing and add/drop functions are performed.

Optical Transmission paths for OC-3/OC-3c, OC-12/OC-12c, OC-48/OC-48c and OC-192/OC-192c differentiated by bit rate and the quality of transmission is as delineated by the Optical Interface definitions in the appropriate technical reference publication(s) for the service ordered. (N)

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21. Optical Carrier Network (OCN) Point-to-Point Service (Cont'd)21.1 General Description (Cont'd)

OC-3, OC-12, and OC-48 may be connected by (1) using the appropriate OC-3, OC-12 or OC-48 add/drop multiplexer (mux) along with the add/drop function to a DS1 and/or DS3 at suitably equipped wire centers, or (2), by using the full bandwidth premises to premises.

Where appropriate facilities are not immediately available, negotiated intervals or special construction charges may apply. The customer is responsible via the ordering process to identify what STS signal configuration is to be contained in each OC-3/OC-3c, OC-12/OC-12c, OC-48/OC-48c and OC-192/OC-192c service connection and each STS-1, STS-3 and/or STS-12 payload content. This information is needed for routing and connection purposes in the network. OCN does not extend the SONET data communication channel overhead across the network interface to the customer's equipment. (N)

OC-3, OC-12, OC-48 and OC-192 based on customer requirements can be configured in any of the following ways:

(A) OC-3

(1) three STS-1 (Synchronous Transport Signals) channels which each contain:

- one DS3 that is STS-1 mapped; or
- up to 28 asynchronous DS1s that are VT-mapped; or
- an STS-1 channel without constraint to payload mapping when the STS-1 channel does not terminate via an add/drop function to DS1 or DS3 services within the network;

(2) a single concatenated STS-3C channel.

(B) OC-12

(1) twelve STS-1 channels which each contain:

- one DS3 that is STS-1 mapped; or
- up to 28 asynchronous DS1s that are VT-mapped; or
- an STS-1 channel without constraint to payload mapping when the STS-1 channel does not terminate via an add/drop function to DS1 or DS3 services within the network;

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21. Optical Carrier Network (OCN) Point-to-Point Service (Cont'd)21.1 General Description (Cont'd)(D) OC-192 (Cont'd)

- (9) From one to three interleaved concatenated STS-48c channels, mixed with from forty eight to one hundred forty four STS-1 Channels, subject to utilization of the total STS-192 capacity.
- (10) From one to three interleaved concatenated STS-48c channels, mixed with from sixteen to forty eight STS-3c channels, subject to utilization of the total STS-192 capacity.
- (11) From one to three interleaved concatenated STS-48c channels, mixed with from four to twelve STS-12c channels, subject to utilization of the total STS-192 capacity.
- (12) From one to three interleaved concatenated STS-48c channels, mixed with from one to forty seven concatenated STS-3c channels, also mixed with from three to one hundred forty one STS-1 channels, subject to utilization of the total STS-192 capacity.
- (13) From one to three interleaved concatenated STS-48c channels, mixed with from one to eleven concatenated STS-12c channels, also mixed with from twelve to one hundred thirty two STS-1 channels, subject to utilization of the total STS-192 capacity.
- (14) From one to three interleaved concatenated STS-48 channels, mixed with from one to eleven concatenated STS-12c channels, also mixed with from four to forty four concatenated STS-3c channels, subject to utilization of the total STS-192 capacity.
- (15) From one to three interleaved concatenated STS-48 channels, mixed with from one to eleven concatenated STS-12c channels, also mixed with from three to one hundred twenty nine STS-1 channels, subject to utilization for the total STS-192 capacity.
- (16) A single concatenated STS-192c channel. (N)

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## ACCESS SERVICE

21. Optical Carrier Network (OCN) Point-to-Point Service (Cont'd)21.2 Rate Regulations

This section contains the specific regulations governing the rates and charges which may apply to OCN Point-to-Point Service. The rates and charges in effect at the time the OCN Point-to-Point Service is installed and accepted by the customer are the rates and charges which will be billed to the customer requesting the service. The rates and charges in effect at the time may not be the same as those rates and charges in effect at the time the customer requests the service.

If the Telephone Company initiates rate changes resulting in a decrease of rates for an existing OC-3, OC-12 or OC-48 service with a 1, 3, or 5 year billing period, or for an existing OC-192 service with a 3 or 5 year billing period, those rate changes will be passed along to the customer. Rate changes resulting in an increase of rates for an existing OC-3, OC-12 or OC-48 service with a 1, 3, or 5 year billing period, or for an existing OC-192 service with a 3 or 5 year billing period will not exceed the original rate for that selected billing period. Rate changes may occur as a result of F.C.C. action.

The four basic rate categories for OCN Point-to-Point Service are Local Distribution Channel, Interoffice Transport, Collocation Transport and Optional Features and Functions.

(A) Local Distribution Channel (LDC)

The Local Distribution Channel (LDC) (same as Channel Termination (CT)) rate category provides for the communications path between a customer designated premise and the serving wire center of that premise. LDCs are only offered without SBC provided and maintained terminal ADM equipment at the customers designated premises and will hand-off basic 2-fiber or 4-fiber optic cables, depending upon the optional feature (as ordered). One LDC is applied per customer designated premises at which the channel is terminated even if collocation exists.

OC-3/OC-3c, OC-12/OC-12c, OC-48/OC-48c and OC-192/OC-192c LDCs (N)  
provide point-to-point optical interconnection between the Telephone Company Serving Wire Center (SWC) and the customer premises.

The customer is required to provide ADM that is compatible with the Telephone Company central office ADM as is described in Technical Publication GR-253-CORE.

All LDCs comprising a channel must have the same terminating bit rate unless multiplexing is performed at a Telephone Company Hub location.

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21. Optical Carrier Network (OCN) Point-to-Point Service (Cont'd)21.2 Rate Regulations (Cont'd)(B) Interoffice Transport

Interoffice Transport facilities comprised of Fixed and Per Mile rate elements, provide the transmission paths between Serving Wire Centers associated with two customer designated premises or between a Serving Wire Center associated with a customer premises and a Telephone Company Hub location. Four interoffice transport types are available.

OC-3/OC-3c LDCs are interconnected to OC-3/OC-3c transport.  
OC-12/OC-12c LDCs are interconnected to OC-12/OC-12c transport.  
OC-48/OC-48c LDCs are interconnected to OC-48/OC-48c transport.  
OC-192/OC-192c LDCs are interconnected to OC-192/OC-192c transport. (N)

In addition, interoffice transport can be connected between wire centers with Add/Drop multiplexing at a lower OC-N speed than the LDCs, if the transport is between a lower speed Add/Drop Function and:

- another lower speed Add/Drop Function;
- another lower speed Local Distribution Channel;
- a lower speed Dedicated Ring Port;

All of the above terminations must be the same speed as the transport.

(C) Collocation Transport

Collocation Transport provides for the transmission facilities arrangement between a Telephone Company central office frame and a collocation frame located in the Telephone Company Central Office.

There are two components of Collocation Transport.

(1) Inter/Intra Office Fixed

Inter/Intra office fixed rate element provides for the electronic equipment required to terminate a channel between two collocation arrangements located either in the same central office (intra) or in two separate central offices (inter).

(2) Inter Office Per Mile

The Per Mile charge provides for the electronic equipment and facilities necessary to provide the interoffice transport between two collocation arrangements.

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21. Optical Carrier Network (OCN) Point-to-Point Service (Cont'd)21.2 Rate Regulations (Cont'd)(C) Collocation Transport (Cont'd)

The following types of collocation transport are:

OC-3/OC-3c  
OC-12/OC-12c  
OC-48/OC-48c  
OC-192/OC-192c

(N)

In addition to the collocation transport charge, one EISCC charge, of the same speed, from Section 18.8.2 will apply per collocation arrangement.

(D) Optional Features and Functions

The following optional features and functions are available:

Central Office Features which consist of:

- Add/drop Multiplexing (ADM)
- Add/drop function (ADM function)

OC-N Network Survivability which consist of:

- 1+1 Protection
- 1+1 Protection with Cable Survivability
- 1+1 Protection with Route Survivability

Regenerators which consist of:

- OC-48
- OC-192

Major Optional Features and Functions, which consist of:

- Connection Arrangements
  - Shared Network Arrangement

(1) Add/Drop Multiplexing

Add/Drop multiplexing is an arrangement in a Telephone Company central office that allows non-concatenated OC-3, OC-12, OC-48 or OC-192 channels operating at a terminating speed of 155.52 Mbps, 622.08 Mbps, 2488.32 Mbps or 9953.28 Mbps, respectively, to add/drop a lower speed channel by using this feature along with the add/drop function as stated in (2) following. The mix of multiplexing signals cannot exceed the maximum bandwidth of the higher speed OCN circuit terminating on the Central Office multiplexer.

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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 3 components of OCN Network Survivability:

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

(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.

(N)

(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)21.2 Rate Regulations (Cont'd)(D) Optional Features and Functions (Cont'd)(4) Point-to-Point OC-48 and OC-192 Regenerator

Regenerators provide essential detection and retransmission of SONET Optical 2488.32 Mbps and 9953.28 Mbps signals between customer premises. Regenerators will only be provided as required by the Telephone Company when actual fiber facility distances between customer designated premises and/or central office locations exceed design limits (typically 25 to 30 miles). Regenerators will be located exclusively in Telephone Company central offices.

(5) Connection Arrangement(a) Shared Network Arrangement

- A Shared Network Arrangement is a service offering that enables a customer ("Service User") to connect subtending services to the multiplexed OC-3, OC-12 or OC-48 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. 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 obtains either subtending DS3 or DS1 from a Host's multiplexed OC-3 service or an OC-3 service from a Host's multiplexed OC-12 service or an OC-12 service from a Hosts' multiplexed OC-48 service.
- 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.
- A nonrecurring charge, only, will apply to the Shared Network Arrangement.

(6) Network Channel Interfaces

The network channel interfaces define the bit rates that are available for OC-3/OC-3c, OC-12/OC-12c, OC-48/OC-48c and OC-192/OC-192c services operating at speeds of 155.52 Mbps, 622.08 Mbps, 2488.32 Mbps and 9953.28 Mbps. Network Channel interfaces and codes are described in 15.3, preceding.

(N)

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21. Optical Carrier Network (OCN) Point-to-Point Service (Cont'd)21.2 Rate Regulations (Cont'd)(E) Monthly Extension Rates

At the expiration of the TPP term and if the customer wishes to continue OC-3/OC-3c, OC-12/OC-12c, OC-48/OC-48c or OC-192/OC-192c, the customer may select a new TPP at the prevailing TPP rate.

(N)

If a customer does not wish to renew the TPP at the expiration of the term, the Monthly Extension Rates will apply until the customer cancels or renews the service with a new TPP term. Monthly Extension Rates are not available as an individual TPP and are to be used as a default applied at the end of a regular 1 year (12 month), 3 year (36 month) and 5 year (60 month) TPP.

(F) Nonrecurring Charges

One-time charges that apply for a specific work activity, e.g., installation, rearrangements, moves, etc., as described in Section 7.2.2.

(G) Minimum Periods

The Minimum Period for OC-3, OC-12 and OC-48 OCN Point-to-Point Service is one year and the minimum period for OC-192 OCN Point-to-Point Service is three years. In the event OCN Point-to-Point Service is terminated prior to completion of the minimum period, termination liabilities as described in 21.2(I) will apply.

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

(N)

	<u>USOC</u>	<u>3 year</u>	<u>5 year</u>	<u>Mo. Ext.</u>
(1) <u>Local</u> <u>Distribution</u> <u>Channel</u> -Per Point of Termination	TMECS	\$29,400.00	\$21,000.00	\$36,000.00
(2) <u>Interoffice</u> <u>Transport</u> -Mileage -Fixed	1L5XX	\$16,875.00	\$13,500.00	\$23,625.00
-Per Mile	1L5XX	\$360.00	\$300.00	\$450.00
(3) <u>Collocation</u> <u>Transport</u> -Transport Facilities between Collocation Arrangements -Fixed	1H48S	\$16,875.00	\$13,500.00	\$23,625.00
-Per Mile	1H48S	\$360.00	\$300.00	\$450.00
(4) <u>Optional</u> <u>Features and</u> <u>Functions</u>  (a) OC-192 Add/Drop Multiplexing* -Per Arrangement	MXRGX	\$12,000.00	\$9,600.00	\$16,800.00
	<u>USOC</u>	<u>Monthly</u>	<u>Nonrecurring Charge</u>	
(b) Add/Drop Function -per OC-48	MXJFX	\$1,800.00		\$0

\*Concatenated services cannot be multiplexed.

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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)

	<u>USOC</u>	<u>Monthly</u>	<u>Nonrecurring Charge</u>	
(4) <u>Optional Feature and Functions</u> (Cont'd)				
(b) <u>Add/Drop Function</u> (Cont'd)				
-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	(N)
(d) <u>1+1 Protection with Cable Survivability</u>				
-Per OC-192/OC-192c Local Distribution Channel	P3S	\$2,700.00	\$800.00	(N)
(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	(N)
(f) <u>Point-to-Point OC-192 Regenerator</u>				
-each	RGY	\$11,000.00	\$0	
(5) <u>Moves (OC-192/OC-192c)</u>				(N)
(a) <u>Service Rearrangement</u>				
See Section 7.2.2, preceding for rates and charges.				
(b) <u>Moves of Point of Termination</u>				
See Section 7.2.3, preceding for rates and charges.				
(c) <u>Moving Customer Premises</u>				
See Section 7.2.3, preceding for rates and charges.				

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21. Optical Carrier Network (OCN) Point-to-Point Service (Cont'd)21.3 Rates and Charges (Cont'd)(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	(N)

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