

6. OC-*n* DEDICATED RING SERVICE (cont'd)**A. Description (cont'd)**Dedicated Ring Configuration (cont'd)

- Nodes (cont'd)

Direct Drop Node

An optional Direct Drop Node (DDN) is available on an OC-12 dedicated ring. This node has direct add/drop capability not to exceed 3 DS3s or its equivalent.

The remaining bandwidth of the OC-12 ring continues on through the Node to another drop point on the ring.

Use of the Direct Drop Node allows customers to drop DS1s directly from the Node without the need for the Optical to Electrical DS1 Add/Drop Capability option.

OC-12 nodes and OC-12 DDNs may be used together in making up an OC-12 dedicated ring. A DS1 that enters the ring via a port on a Direct Drop Node must also exit via a port on another Direct Drop Node (DDN on-DDN off). A DS3 that enters the ring via a port on a Direct Drop Node may exit via a port on either a Direct Drop Node or OC-12 node. Direct Drop Node is not available in a two-node ring configuration.

Sub-Ring Node

A sub-ring node is a lower speed optical extension off a main ring. It traverses one or more main ring nodes via the use of OC-*n* port connections on and off the main ring. The primary use of sub-ring nodes is to provide the ability to fully utilize the bandwidth around the ring when the customer requires DS1/VT1.5 circuit paths.

An optional sub-ring node is available at OC-3, OC-12 and OC-48 speeds from an OC-192 main ring, OC-3 and OC-12 speeds from an OC-48 main ring, and OC-3 speed from an OC-12 main ring. A sub-ring node may only connect to the main ring at the same or an adjacent main ring node. With Next Generation SONET equipment, a sub-ring node may connect to another sub-ring node.

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6. OC-n DEDICATED RING SERVICE (cont'd)**A. Description (cont'd)**Dedicated Ring Configuration (cont'd)

- Nodes (cont'd)

Sub-Ring Node (cont'd)

Any service that enters the main ring via a port on a sub-ring node must also exit via a port on another sub-ring node (sub-ring on - sub-ring off). Cascading sub-rings are not allowed off a main ring. Service circuits may not be established between a sub-ring node and a port on the same main ring node to which it connects.

Each sub-ring must be implemented as an OC-*m* on an OC-*n* ring with full compliment of STS-1s, 3 or 12 depending on the bandwidth of the sub-ring, appearing together at all associated sub-ring nodes on a given sub-ring.

OC-3 sub-rings and OC-12 DDNs may not be combined on an OC-12 main ring. OC-12 sub-rings and OC-12 DDNs may be combined on a sub-ring connected to an OC-48 main ring.

Two OC-*n* ports and associated node charges apply for each sub-ring node connected to the main ring, as well as applicable mileage for the sub-ring applies. Mileage charges are applicable when the sub-ring is in a different location than the main ring. (N)
(N)

A sub-ring node which is co-located with a main ring node at the customers premises (for the same dedicated ring) will be billed as an "Additional Node".

A Sub Ring is not available with a two-node main ring configuration.

6. OC-*n* DEDICATED RING SERVICE (cont'd)**F. Prices (cont'd)**

4. Credit Allowance

A service interruption will result in a credit equal to one month's bill for the individual port-to-port connection involved when the system does not automatically self-heal around the point of failure within one (1) second. An interruption of service will start when an inoperative service is reported to the 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. (C)

The OC-*n* Dedicated Ring Service credit allowance does not apply to a failure, which occurs on a service where the customer has intentionally requested to provision riding services without SONET protection (see Unprotected Channel Transport described earlier in this Guidebook) or an unprotected facility where the customer has chosen not to utilize Special Construction to have such facilities constructed. This provision includes the entrance facility where the customer has chosen not to establish dual entrance facilities (diversity) from their property line to their building equipment location. The Credit allowance determination for service outages utilizing non-diverse entrance facilities is found in Part 15, Section 1 of this Guidebook. Additional information regarding Credit Allowance limits may be found in AM TR-TMO-000101. (C)

Unprotected services may be interrupted to repair other circuits. In cases where the customer orders OC-192 Dedicated Ring Service with an unprotected 2-fiber service interface, the Company may provision this unprotected service, with other unprotected services, via a multi-port card. If one unprotected service on the card incurs an outage, the Company may repair the 2-fiber service interface device by replacing the card, which may temporarily interrupt service on any unprotected tributary circuits that subtend this same multi-port circuit card. In the event of a service interruption, credit allowance will be provided for the service that suffered the unplanned outage.