Cisco ONS 15327 Edge Multiservice Provisioning Platform Release 3.3.0

The Cisco ONS 15327 edge multiservice provisioning platform (MSPP) is the first metro edge optical transport platform to deliver supercharged SONET transport, integrated optical networking, unprecedented multiservices on demand, and radical economics. The Cisco ONS 15327 is built on the proven technology pioneered by the Cisco ONS 15454, the industry's leading metro multiservice provisioning optical transport platform.

Figure 1
Cisco ONS 15327 SONET Edge Multiservice Provisioning Platform

Release 3.3.0 improves the economics and networking flexibility of the ONS 15327. Greater distances for SONET rings or point-to-point spans are supported through complementary long-reach versions of OC-12/STM-4 and OC-48/STM-16 interface cards. Release 3.3.0 also introduces a new OC-3/STM-1 interface card with high-density optics to ease the traffic gridlock at bandwidth-intensive access points at the fringe of the optical network.

ONS 15327 Release 3.3.0 Hardware Features

- *Four-port OC-3/STM-1 Intermediate Reach (IR) Card*—The new Cisco ONS 15327 four-port OC-3/STM-1 card transports supercharged SONET services to the metro optical edge with the smallest footprint in the industry. The four-port OC-3/STM-1 occupies a single high-speed slot in the 15327 chassis and features four SONET OC-3 interfaces with each delivering 155.52Mbps of carrier-class service to bandwidth intensive access points that require a scalable, multiservice scalable solution.
- *OC-12/STM-4 Long-Reach (LR) Card*—In addition to the current OC-12 Intermediate Reach (IR) card, a new OC-12 long-reach card is now available to support distances up to 80 kilometers. Each card utilizes a 1550nm laser to provide 623.08 Mb/s for both concatenated and non-concatenated services.
- *OC-48/STM-16 Long-Reach (LR) Card*—In addition to the existing OC-48 Intermediate Reach (IR) card, a new OC-48 long-reach card is now available to support distances up to 80 kilometers. Each card utilizes a 1550nm laser to provide 2488.32 Mb/s for both concatenated and non-concatenated services.
- *Industrial Temperature (I-Temp) Rating*—The new circuit packs introduced with Release 3.3.0 are rated for extended temperature operation of -40 to +65 degrees Celsius. Other ONS 15327 components and circuit packs have also been previously introduced with I-Temp capabilities (see Product Bulletin #1682). With the addition of I-temp capabilities, users can now extend fully protected SONET services to bandwidth-intensive, non-environmentally controlled remote facilities at the optical edge.

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ONS 15327 Release 3.3.0 Software Features

- *Unified Software Release*–R3.3.0 and future product releases of the Cisco ONS 15327 and ONS 15454 will be synchronous. Concurrency across both ONS 15454 and 15327 platforms allows transparent management of an ONS 15454/15327 network. A unified software base has allowed the ONS 15327 to import many of the management software enhancements in Cisco Transport Controller (CTC) since Release 2.2.0 of the ONS 15454.
- *Two Fiber BSLR and Extended Topology Enhancements*—Release 3.3.0 also allows for greater topology flexibility and additional carrier-class SONET protection with the addition of 2-Fiber bi-directional line switched rings (BLSR). Further enhancements include support up to 25 nodes on a 2F BLSR ring configuration and the ability to configure two BLSR rings on a single 15327 node. The ONS 15327 can be networked on the same UPSR and 2 fiber BLSR rings as the ONS 15454 nodes, providing a cost effective network element for intermediate nodes requiring little bandwidth access or as a regenerator site.
- *Local/Remote Craft Access*—Greater operational efficiencies through enhancements in Remote Cisco Transport Controller (CTC) and direct CTC (Cisco Transport Controller) access.
- *Provisionable Spanning Tree*—Additional networking flexibility is offered by allowing the user to disable spanning tree on a circuit-by-circuit basis. This allows multiple E-series Ethernet card within an ONS 15327 chassis, operating in single card ether-switch mode, to utilize the same VLAN ID numbers.

Availability

Release 3.3.0 orderability is planned for the week of May 6th, 2002 with a target first customer ship (FCS) within 30 days.

Ordering Information

The Cisco ONS 15327 Release 3.3.0 hardware and software products may be ordered from your sales representative or through the Cisco Networking Products Marketplace online order entry tool.

Table 1

Product Part Number and Descriptions

Product Name	Description
15327-OC3-4I13-T	Four-port OC-3, IR, LC Optics, 1310 nm, I-Temp
15327-OC3-4I13-T=	Four-port OC-3, IR, LC Optics, 1310 nm, I-Temp
15327-OC12-1L15-T	OC-12, LR, SC Optics, 1550 nm, I-Temp
15327-OC12-1L15-T=	OC-12, LR, SC Optics, 1550 nm, I-Temp
15327-OC48-1L15-T	OC-48, LR, SC Optics, 1550 nm, I-Temp
15327-OC48-1L15-T=	OC-48, LR, SC Optics, 1550 nm, I-Temp
15327-R3.3.0SW/CD	Release 3.3.0 Feature Package, CD/ROM
SF15327-R3.3.0	Release 3.3.0 Software, pre-loaded on XTC card
15327-DOC3.3.0PP	Release 3.3.0 Documentation - Paper
15327-DOC3.3.0CD	Release 3.3.0 Documentation - On CD

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Table 2

Hardware/Software Software Compatibility Matrix

Product Name	Software
15327-OC3-4I13-T	R3.3.0 or higher
15327-OC3-4I13-T=	R3.3.0 or higher
15327-OC12-1L15-T	R3.3.0 or higher
15327-OC12-1L15-T=	R3.3.0 or higher
15327-OC48-1L15-T	R3.3.0 or higher
15327-OC48-1L15-T=	R3.3.0 or higher

For additional configuration and ordering information regarding Release 3.3.0, please contact your account representative and request document “R3.3.0 Configuration and Ordering Guide, ONS 15327”.

Summary

The Cisco ONS 15327 is the first multiservice optical transport platform optimized for the metropolitan network edge. The ONS 15327 Edge MSPP extends the geographic reach of service providers and enterprise users, while redefining network-edge bandwidth management, scalability, and service-creation speed. The Cisco ONS 15327 enables reliable delivery of traditional voice and high-bandwidth data services in a fraction of the time—and at a fraction of the cost—of other products.

More Information

For more information on the ONS 15327, please contact your Cisco Account Representative, or visit:
http://www.cisco.com/warp/public/cc/pd/olpl/metro/on15327/prodlit/index.shtml

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