

Cisco ONS 15454 SONET Multiservice Provisioning Platform Release 3.4.0

Cisco Systems is proud to announce Release 3.4.0 features and functional enhancements for the industry-leading Cisco ONS 15454 SONET Multiservice Provisioning Platform (Figure 1). Release 3.4.0 focuses on further reducing network operating expenses as well as delivering greater revenue-generating bandwidth. The new features and functions are described below.

Figure 1
Cisco ONS 15454 SONET Multiservice Provisioning Platform



Release 3.4.0 Hardware Features

Advanced Alarm Interface Controller (AIC-I) Card—The AIC-I provides four main capabilities:

- Environmental alarm collection: Up to 48 environmental alarms are supported on the Cisco ONS 15454 shelf assembly.
- Orderwire: Shelf-to-shelf communication over the Synchronous Optical Network (SONET) overhead channels is provided using the local and express orderwire bytes. System supports selective dialing, integrated buzzer, and visual LED for simple use.
- Input power monitoring: Dual input power monitoring with threshold crossing alerts (TCAs) enable an early warning system, allowing proactive system maintenance.
- User data channel access: The AIC-I card allows access to SONET overhead bytes, providing four point-to-point data circuits to meet internal networking needs.

The AIC-I card is an optional component and is not required for system operation.

Alarm Extension Panel (AEP)—The AEP extends the environmental alarm termination capacity of an AIC-I equipped Cisco ONS 15454 from 16 to 48 alarm interfaces.

Release 3.4.0 Software Features

Protection Channel Access (PCA)—Enables the service provider to use the protected bandwidth (Extra Traffic per Telcordia standard GR-1230-CORE) of a 2- or 4-fiber Bidirectional Line Switched Ring (BLSR) network for working traffic. This capability, especially when coupled with data protocols, allows BLSR rings to carry more services, lowering the service provider's cost per bit and increasing their profitability and return on investment (ROI). Traditionally, the service provider uses the PCA bandwidth to offer data services, which are protected at a higher OSI layer, or are designed to provide a low-cost back-up circuit.

Unified Control Plane (UCP)—The UCP is an evolving, industry standards based control plane signaling protocol designed to enable a multi-vendor, interoperable control protocol, providing circuit and lightpath provisioning between network elements such as add/drop multiplexers (ADM)s, cross-connects, optical switches, routers, and ATM switches.

The initial release will support the UCP UNI-C feature, as outlined by the Optical Internetworking Forum (OIF) UNI 1.0 specification. This UNI-C capability on the Cisco ONS 15454 will extend the simple, fast and easy provisioning using signaling request for circuit setup through any OIF O-UNI compliant third party core optical-transport network. Some of the noteworthy features of the UCP UNI-C implementation are: IF/IB (In-Fiber, In-Band) or OOF/OB (Out-Of-Fiber, Out-of-Band) communication for control traffic, OIF RSVP-TE signaling protocol with extensions, OIF compliant LMP protocol, optical link management (OLM), neighbor discovery and management system based configuration of node and interface level configuration, initiation, monitoring and tear down of signaled circuits that originate and terminate at UNI-C interfaces and traverse a core network.

Network Element Default Override—Simplifies day-to-day system provisioning by enabling user system defaults to be uploaded to network element at turn-up.

Enhanced Circuit State Modes—Provide new circuit states, including automatic in-service (AINS) and maintenance modes, simplifying operations.

Compatibility Information

Table 1 provides compatibility information.

Table 1 Compatibility Matrix

Product	Requires
Cisco ONS 15454 Release 3.4.0 Software	TCC+ card
Cisco ONS 15454-AIC-I	R3.4.0 software or higher 15454-SA-NEBS3E or 15454-SA-ANSI shelf assembly
Cisco ONS 15454-AEP	R3.4.0 software or higher 15454-SA-NEBS3E or 15454-SA-ANSI shelf assembly

For additional configuration and ordering information for the Cisco ONS 15454 Release 3.4, please contact your Cisco account representative or systems engineer.

Availability

Orderability for Cisco ONS 15454 Release 3.4.0 is targeted for September 15, 2002, with first customer shipment (FCS) planned within 30 days.

Ordering Information

The Cisco ONS 15454 Release 3.4.0 hardware and software products may be ordered now from your sales representative or through the Cisco Networking Products MarketPlace online order-entry tool at: <http://cisco.com/public/ordsum.html>.

The new product names and descriptions are provided in Table 2. To access current Common Language Equipment Identifier (CLEI) code information for all Cisco products, please refer to the Cisco online CLEI Code Tool at: <http://www.cisco.com/cleicodetool>

Table 2 Product Part Numbers and Descriptions

Part number	Description
15454-AIC-I	Enhanced alarm interface controller card, Cisco ONS 15454 SONET, I-Temp rated
15454-AEP	Alarm extension panel, used with AIC-I card, Cisco ONS 15454 SONET, I-Temp rated
15454-R3.4.0SW/CD	Release 3.4.0 feature package, Cisco ONS 15454, CD-ROM
SF15454-R3.4.0	Release 3.4.0 software, Cisco ONS 15454 SONET, preloaded on TCC+ card
15454-LIC-UPG	Upgrade license package, Cisco ONS 15454, one required for each deployed network element being upgraded from a previous feature release, includes system software on CD-ROM, select appropriate software release
15454-LIC-R3.4.0	Upgrade license, release 3.4.0, Cisco ONS 15454, option in 15454-LIC-UPG product name, one required for each deployed network element being upgraded from a previous feature release
15454-DOC3.4.0PP	Release 3.4.0 documentation, Cisco ONS 15454, paper
15454-DOC3.4.0CD	Release 3.4.0 documentation, Cisco ONS 15454, CD-ROM

Note: The systems and products described in this document are subject to New Product Hold, a status assigned to all new items that have not yet transacted through the Cisco manufacturing system and may not be available. Thus, product delivery dates can vary past the quoted FCS date.

For more information about the Cisco ONS 15454, please contact your Cisco account representative, or visit: <http://www.cisco.com/ONS15454>



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