



PRODUCT BULLETIN NO. 2561

CISCO IOS SOFTWARE RELEASE 12.2(23)SV ON THE CISCO ONS 15500 SERIES

This product bulletin outlines the hardware and software features supported in Cisco IOS® Software Release 12.2(23)SV on the Cisco ONS 15500 Series metro optical platforms. Cisco IOS Software Release 12.2(23)SV is an ED release (XED) that it is optimized for the Cisco ONS 15500 Series.

The Cisco ONS 15500 Series includes the ONS 15530 Multiservice Aggregation Platform, ONS 15540 ESPx Platform, and the ONS 15540 ESP Platform. These platforms are highly scalable, dense wavelength division multiplexing (DWDM), multiservice aggregation and transport platforms. The ONS 15500 Series aggregates storage network, data networking, and legacy applications over an ultra-high, bandwidth intelligent optical infrastructure. The Cisco ONS 15500 Series provides flexible, scalable, and highly available optical networking for current and future high-performance, bandwidth-intensive networking applications.

FEATURES AT A GLANCE

Hardware Support

The Cisco IOS 12.2(23)SV release for the ONS 15530 platform supports the following new hardware. No additional new hardware support is provided in the Cisco IOS 12.2(23)SV release for the ONS 15540 platforms.

Product	Product Codes	Description
New ONS 15530 4-pt 1G/2G Fibre Channel Aggregation Module	15530-FC-4P	4-pt 1G/2G Fibre Channel Aggregation Card for the ONS 15530

Software Support

The Cisco IOS 12.2(23)SV release for the ONS 15530 and ONS 15540 platforms provides the following software feature support.

The Cisco IOS 12.2(23)SV release for the ONS 15530 supports the following features for the ONS 15530 4-port 1-Gbps/2-Gbps FC aggregation card.

Feature	Description
Protocol Support	The Cisco ONS 15530 4-pt 1G/2G Fibre Channel Aggregation Card supports 1-Gbps and 2-Gbps FC (Fibre Channel), FICON (Fibre Connection), and ISC (InterSystem Channel) links traffic.
SFP (small form-factor pluggable) optics support	The Cisco ONS 15530 4-pt 1G/2G Fibre Channel Aggregation Card accepts up to four single-mode or multimode SFP (small form-factor pluggable) optics for client traffic. Each SFP optic supports 1-Gbps or 2 Gbps FC, FICON, or ISC traffic, depending on how the interface is configured in the CLI.

Ability to mix and match ports	<ul style="list-style-type: none"> The Cisco ONS 15530 4-pt 1G/2G Fibre Channel Aggregation Card provides the ability to populate the card with any combination of the supported 1-Gbps and 2-Gbps Fibre Channel / FICON and 1-Gbps Gigabit Ethernet SFPs. For example, you can mix a 1-Gbps GE single-mode SFP optic with a 2-Gbps Fibre Channel multimode SFP optic on the same 4-pt 1G/2G Fibre Channel Aggregation Card.
Support for 2.5G and 10G ITU trunk cards	<ul style="list-style-type: none"> The Cisco ONS 15530 4-pt 1G/2G Fibre Channel Aggregation Card provides the flexibility to send up to one port over a 2.5-Gbps ITU trunk card or up to four ports over a 10-Gbps ITU trunk card or 10-Gbps uplink card.
Protection Modes Supported	<ul style="list-style-type: none"> The Cisco ONS 15530 4-pt 1G/2G Fibre Channel Aggregation Card has redundant connections over the backplane to the switch fabric to allow for client protection, 1+1 protection, y-cable protection, trunk protection, and switch fabric protection.

The Cisco IOS 12.2(23)SV release for the ONS 15530 supports the following features for the ONS 15530 2.5-Gbps Transponder line cards.

Feature	Description
ISC-3 Peer Mode 1-Gbps Support	Support for the IBM ISC-3 (InterSystem Channel) link protocol in 1-Gbps "Peer Mode" on the Cisco ONS 15530 2.5-Gbps Transponder line cards.

The Cisco IOS 12.2(23)SV release for the ONS 15540 supports the following features for the ONS 15540 2.5-Gbps Transponder modules.

Feature	Description
ISC-3 Peer Mode 1-Gbps Support	Support for the IBM ISC-3 (InterSystem Channel) link protocol in 1-Gbps "Peer Mode" on the Cisco ONS 15540 2.5-Gbps Transponder modules.

Release Notes can be found at:

ONS 15530:

http://www.cisco.com/univercd/cc/td/doc/product/mels/15530/12_2_sv/4891_05.htm

ONS 15540 ESPx:

http://www.cisco.com/univercd/cc/td/doc/product/mels/15540x/12_2_sv/4893_05.htm

ONS 15540 ESP:

http://www.cisco.com/univercd/cc/td/doc/product/mels/15540/12_2_sv/4892_05.htm

ORDERING INFORMATION

The Cisco IOS 12.2(23)SV release for the ONS 15530 and ONS 15540 platforms supports the following software.

Platform	Product Number	Release
ONS 15530	SO530C-12223SV	12.2(23)SV
ONS 15540 ESPx	SO15C-12223SV	12.2(23)SV
ONS 15540 ESP	SO15C-12223SV	12.2(23)SV



SMARTNET CUSTOMERS

Update

SMARTnet™ customers are entitled to a software update, which is described as a new release version of the customer last-purchased feature set. For customers wanting increased functionality, an upgrade to the new feature set will be required.

Upgrade

Cisco helps SMARTnet customers get upgrades quickly through CCO. If customers are upgrading from one feature set to another, they must place an order for the purchase of the appropriate Technology Use or Feature Licenses before downloading the software

NON-SMARTNET CUSTOMERS

Upgrades

Customers who wish to increase the level of functionality beyond their current feature set must order a software product code along with any appropriate feature licenses.

Downloading Cisco IOS 12.2(23)SV Software Release from Cisco

Registered CCO users may download the Cisco IOS 12.2(23)SV software release for the ONS 15530 and ONS 15540 at <http://cco.cisco.com> when available. This release is scheduled for Q3CY04.

Those customers eligible for software upgrades under warranty that do not have service contracts will need to contact the Technical Assistance Center at 800 553-2447 or tac-dispatch@cisco.com.

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