

CISCO CONFIDENTIAL

CISCO IOS SOFTWARE RELEASE 12.2(22)SV ON THE CISCO ONS 15500 SERIES

Introduction

This product bulletin outlines the hardware and software features supported in Cisco IOS® Software Release 12.2(22)SV on the Cisco ONS 15500 Series metro optical platforms. Cisco IOS Software Release 12.2(22)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. They are highly scalable, dense wavelength division multiplexing (DWDM), multiservice aggregation and transport platforms. They aggregate storage networking, 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(22)SV release for the ONS 15540 ESPx and ONS 15540 ESP platforms supports the following hardware:

Product	Product Codes	Description
New ONS 15540 ESPx OADM modules with integrated VOA available:	15540-MDXE-01xx	These new ONS 15540 ESPx 1-channel and 2-channel OADM modules with integrated VOA perform both DWDM and variable optical attenuation. These modules insert into a 2.5-Gbps line card motherboard installed in a CiscoONS15540ESPx shelf. The 2.5-Gbps line card motherboards can be installed in slots 2through5 and 8through11. Each 2.5-Gbps line card motherboard can hold up to four OADM modules with integrated VOA.
	ONS 15540 ESPx - 1Ch. Mux/Demux w integrated VOA Ch xx	
•1-channel OADM modules with integrated VOA including OSC version	15540-MDXE-OSC	The new ONS 15540 ESPx 4-port VOA module provides variable optical attenuation for the mux/demux modules supported on the CiscoONS15540ESPx. This module allows you to attenuate up to four separate signals. You can attenuate a data channel generated by a transponder module, the OSC, or the trunk signal. The most common use is equalizing the signal power for four data channels in the same channel band.
•2-channel OADM modules with integrated VOA	ONS 15540 ESPx - Optical Supervisory Card for LCMB	
•4-port VOA modules	15540-MDXE-02xx	The 4-port VOA modules insert into a 2.5-Gbps line card motherboard installed in a CiscoONS15540ESPx shelf. The 2.5-Gbps line card motherboards can be installed in slots 2through5 and 8through11.
	ONS 15540 ESPx - 2Ch. Mux/Demux w integrated VOA Ch xx	
	15540-VOA-04	
	ONS 15540 ESPx - 4 Port Variable Optical Attenuator for LCMB	

Software Support

The Cisco IOS 12.2(22)SV release for the ONS 15500 metro optical DWDM platforms supports the following software features:

Feature	Description
2-Gbps ISC peer mode protocol monitoring on 2.5-Gbps transponder modules	Coupling Facility (CF) links, also known as ISC (InterSystem Channel) links, are used to connect mainframes to a CF. The CF is used by multiple mainframes to share data in a sysplex or Parallel Sysplex environment. This data sharing capability is key to the high availability features of a GDPS. The ONS 15530 and ONS 15540 now support the ISC peer mode coupling links that run over Fibre Channel at data rates of 2.1Gbps on the 2.5-Gbps transponder modules.

Release Notes can be found at:

Cisco ONS 15530:

http://www.cisco.com/univercd/cc/td/doc/product/mels/15530/12_2_sv/4891_04.pdf

Cisco ONS 15540 ESPx:

http://www.cisco.com/univercd/cc/td/doc/product/mels/15540x/12_2_sv/22_sv/4893_04.pdf

Cisco ONS 15540 ESP:

http://www.cisco.com/univercd/cc/td/doc/product/mels/15540/12_2_sv/22_sv/4892_04.pdf

Ordering Information

The Cisco IOS 12.2(22)SV release for the Cisco ONS 15500 metro optical DWDM platforms includes the following software.

Platform	Product Number	Release
ONS 15530	SO530C-12222SV	12.2(22)SV
ONS 15540 ESPx	SO15C-12222SV	12.2(22)SV
ONS 15540 ESP	SO15C-12222SV	12.2(22)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 [cisco.com](http://www.cisco.com). 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(22)SV Software Release from Cisco

Registered [cisco.com](http://www.cisco.com) users may download the Cisco IOS 12.2(22)SV software release for the Cisco ONS 15530, Cisco ONS 15540 ESPx, and Cisco ONS 15540 ESP platforms at <http://www.cisco.com> when available. This release is scheduled for March 2004.

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

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