



## CISCO IOS SOFTWARE RELEASE 12.2(25)SV

### INTRODUCTION

This product bulletin outlines the hardware and software features supported in Cisco IOS® Software Release 12.2(25)SV on the Cisco® ONS 15500 Series metro optical platforms. Cisco IOS Software Release 12.2(25)SV is optimized for the Cisco ONS 15500 Series.

The Cisco ONS 15500 Series includes the Cisco ONS 15530 Multiservice Aggregation Platform and Cisco ONS 15540 Extended Services Platform. These are both 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

The Cisco IOS Software Release 12.2(25)SV for the Cisco ONS 15500 Series supports the hardware as shown in Table 1 and the software shown in Table 2.

**Table 1.** Hardware Support

Product	Part Numbers	Description
Cisco ONS 15530 8-Port Multiservice Muxponder Card	15530-MSMP-xx12 (splitter-protected) 15530-MSMP-xx22 (unprotected)	The Cisco ONS 15530 8-Port Multiservice Muxponder Card for the Cisco ONS 15530 DWDM Multiservice Aggregation Platform provides cost-effective and efficient wavelength usage by aggregating up to 8 copper- or optical-based services onto a single, self-contained module with an integrated 2.5-Gbps wavelength trunk. This enhancement makes the Cisco ONS 15530 the ideal solution for cost-effective low-speed or multiservice applications.

**Table 2.** Software Support

Feature	Description
<b>Multiservice aggregation</b>	The multiservice muxponder card provides industry-leading aggregation of up to 8 copper- or optical-based services with data-rate support ranging from 1.54 Mbps to 1.25 Gbps. Protocols supported include T1, E1, Fast Ethernet, Enterprise Systems Connection (ESCON), OC-3/STS-1, Digital Video Broadcast and Access Server Integration (DVB-ASI) and Serial Data Interface (SDI) video, 1-Gbps Fibre Channel, IBM Fiber Connection (FICON), and Gigabit Ethernet. The multiservice muxponder is a self-contained aggregation blade that multiplexes up to 8 services onto a 2.5-Gbps International Telecommunication Union (ITU) wavelength. When used with a 32-wavelength system, such as the Cisco ONS 15540, up to 256 services can be supported per fiber pair.
<b>Investment protection</b>	The multiservice muxponder card protects customer investments by supporting scalable, entry-level, low-density multiservice aggregation and high-density deployments in the same Network Equipment Building Standards (NEBS) or European Telecommunications Standards Institute (ETSI) chassis. Other Cisco ONS 15530 aggregation cards provide support for 1- and 2-Gbps Fibre Channel, FICON, ESCON, and Gigabit Ethernet aggregation, which allows the network to grow and evolve with customer requirements.
<b>Scalability</b>	The multiservice muxponder card supports the ability to scale the network without service interruption as new copper- and optical-based muxponder or aggregation card-based services are added.
<b>Protection options</b>	The multiservice muxponder card offers several protection options for customers requiring an enhanced level of service availability, including splitter-, nonsplitter-, and protection-switch-module (PSM)-based protection.

Feature	Description
<b>Operational ease</b>	Cisco IOS Software-based command-line interface (CLI), Simple Network Management Protocol (SNMP), Transaction Language One (TL-1), CiscoView, and Cisco Transport Manager support provide customers with added visibility into protocol statistics and optical signal performance.
<b>New application support</b>	Aggregation of multiple DVB-ASI and SDI 270-Mbps coaxial-based video services over a DWDM optical transport meets ANSI/SMPTE 259M-1997 specifications.

## RELEASE NOTES

For more information about Cisco ONS 15530, visit:

[http://www.cisco.com/univercd/cc/td/doc/product/mels/15530/12\\_2\\_sv/18\\_sv/4891\\_01.htm](http://www.cisco.com/univercd/cc/td/doc/product/mels/15530/12_2_sv/18_sv/4891_01.htm).

For more information about Cisco ONS 15540 ESPx, visit:

[http://www.cisco.com/univercd/cc/td/doc/product/mels/15540x/12\\_2\\_sv/18\\_sv/4893\\_01.htm](http://www.cisco.com/univercd/cc/td/doc/product/mels/15540x/12_2_sv/18_sv/4893_01.htm).

## ORDERING INFORMATION

The Cisco IOS Software Release 12.2(18)SV for the Cisco ONS 15500 metro optical DWDM platforms includes the software shown in Table 3.

**Table 3.** Product Part Numbers and Software Releases

Platform	Part Number	Cisco IOS Software Release
Cisco ONS 15530	SO530C-12.2(25)SV	12.2(25)SV
Cisco ONS 15540 ESPx	SO15C-12.2(25)SV	12.2(25)SV

## CUSTOMERS WITH SMARTNET SUPPORT

### Update

Cisco customers with SMARTnet support contracts are eligible for a software update, which is described as a new release version of the feature set last purchased by the customer. For customers desiring increased functionality, an upgrade to the new feature set will be required.

### Upgrade

Cisco Systems® helps Cisco SMARTnet customers obtain upgrades quickly through 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.

## CUSTOMERS WITHOUT SMARTNET SUPPORT

### 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 SOFTWARE RELEASE 12.2(18)SV

Registered Cisco.com users may download the Cisco Software Release IOS 12.2(18)SV for the Cisco ONS 15530 and Cisco ONS 15540 ESPx platforms at <http://www.cisco.com/>.

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 toll-free 800 553-2447 or by e-mail at [tac-dispatch@cisco.com](mailto:tac-dispatch@cisco.com).



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