

## Cisco IOS Software Release 12.2(46)SE for Cisco Catalyst 3750 Metro, Cisco ME 2400 and ME 3400 Series Ethernet Access Switches

PB493569

Cisco® announces Cisco IOS® Software updates for Cisco Catalyst® 3750 Metro, ME 3400, and ME 2400 Series Switches. This release furthers Cisco leadership by providing Multiprotocol Label Switching (MPLS) Traffic Engineering and Fast Reroute, enhanced routing, resiliency, and manageability features for Metro Ethernet deployments.

This product bulletin contains content and delivery information for Cisco IOS Software Release 12.2(46)SE.

The following new features are available with Cisco IOS Software Release 12.2(46)SE for Metro Ethernet switches:

- **MPLS Traffic Engineering (TE) and Fast Reroute (FRR):** Allow service providers to increase the network reliability and availability. The feature guarantees fast recovery after a link or node failure in the MPLS network. FRR protects from link and node failures by locally repairing the label switched path (LSP) at the point of failure, rerouting all LSP traffic crossing a failed link over backup tunnels that bypass the failed link or node..
- **Dynamic Host Configuration Protocol (DHCP) Port-Based Allocation:** Enhances network management by allowing the Cisco IOS Software DHCP server to always offer the same IP address to the device connected to a given switch port. Any new device connecting or old device reconnecting to the port will be allocated the same IP address.
- **Resilient Ethernet Protocol (REP) configurable LSL (Link Status Layer) timeout:** Allows user to adjust REP's age-out timer and reduce failure detection time in case of loss of signal (LOS).
- **REP clear counter enhancement:** Allows service providers to optimize the manageability and troubleshooting of REP networks by resetting REP statistics counters when needed.
- **Hot Standby Routing Protocol (HSRP) v2:** Provides subsecond failover to backup routes and improves manageability and troubleshooting beyond what is possible with HSRP v1.
- **Digital Optical Monitoring (DOM) Support for SX and LX Small Form-Factor Pluggables (SFPs).**

Table 1 describes product support for new features of Cisco IOS Software Release 12.2(46)SE for Metro Ethernet switches, and Table 2 lists the supported switches.

**Table 1.** Cisco IOS Software Release 12.2(46)SE New Features for Metro Ethernet Switches

Feature	3750 Metro: Advanced IP	3750 Metro: IP Services	3750 Metro: IP Base	ME 3400: Metro IP Access	ME 3400: Metro Access	ME 3400: Metro Base	ME 2400
MPLS Traffic Engineering Fast Reroute	Yes	No	No	No	No	No	No
DHCP Port-Based Allocation	Yes	Yes	Yes	Yes	Yes	Yes	Yes
REP Configurable LSL Timeout	Yes	Yes	Yes	Yes	Yes	No	No
REP Clear Counter Enhancement	Yes	Yes	Yes	Yes	Yes	No	No
HSRPv2	Yes	Yes	No	Yes	No	No	No
DOM Support for SX and LX*	Yes	Yes	Yes	Yes	Yes	Yes	Yes

\* Requires SFPs with DOM support.

**Table 2.** Cisco Catalyst Metro Ethernet Switches Supported with Cisco IOS Software Release 12.2(46)SE

Cisco Catalyst 3750 Metro Series Switches and Software Licenses	Cisco ME 3400 Series Switches and Software Images	Cisco ME 2400 Series Switches
<ul style="list-style-type: none"> <li>• ME-C3750-24TE-M</li> <li>• ME3750-IPSVC-LIC</li> <li>• ME3750-IPSVC-LIC=</li> <li>• ME3750-ADVIP-LIC</li> <li>• ME3750-ADVIP-LIC=</li> <li>• ME3750-UPGRD-LIC=</li> </ul>	<ul style="list-style-type: none"> <li>• ME-3400-24TS-A</li> <li>• ME-3400-24TS-D</li> <li>• ME-3400-24FS-A</li> <li>• ME-3400G-12CS-A</li> <li>• ME-3400G-12CS-D</li> <li>• ME-3400G-2CS-A</li> <li>• CD-ME3400-B2A=</li> <li>• CD-ME3400-B2I=</li> <li>• CD-ME3400-A2I=</li> <li>• S340XB-12246SE</li> <li>• S340XA-12246SE</li> <li>• S340XI-12246SE</li> </ul>	<ul style="list-style-type: none"> <li>• ME-2400-24TS-A</li> <li>• ME-2400-24TS-D</li> </ul>

## Additional Resources

### Software Download

Software is available for download from the following links:

- Cisco IOS Software upgrade planner: <http://www.cisco.com/cgi-bin/Software/iosplanner/Planner-tool/iosplanner.cgi?majorRel=>
- Guest-level access planner: <http://www.cisco.com/kobayashi/sw-center/index.shtml>.

Because of export restrictions on strong cryptography software, a separate image is required for the cryptographic features (Secure Shell [SSH] Protocol, Simple Network Management Protocol [SNMP] v3, and Kerberos Protocol). These software images can be downloaded from the corresponding Triple Data Encryption Standard (3DES) area of the links provided in this section. Note that the Cisco Advanced IP Services license is available only in cryptographic format.

## Product Information

Additional product information is available at the following URLs:

- Cisco Catalyst 3750 Metro Series Switches: <http://www.cisco.com/go/catalyst3750metro>
- Cisco ME 3400 Series Switches: <http://www.cisco.com/en/US/products/ps6580/index.html>
- Cisco ME 2400 Series Switches: <http://www.cisco.com/en/US/products/ps6581/index.html>
- Cisco Catalyst 3750 Metro and ME 3400/2400 Series release notes:
  - <http://www.cisco.com/univercd/cc/td/doc/product/lan/cat3750m/index.htm>
  - <http://www.cisco.com/univercd/cc/td/doc/product/metro/me3400/index.htm>
  - <http://www.cisco.com/univercd/cc/td/doc/product/metro/me2400/index.htm>

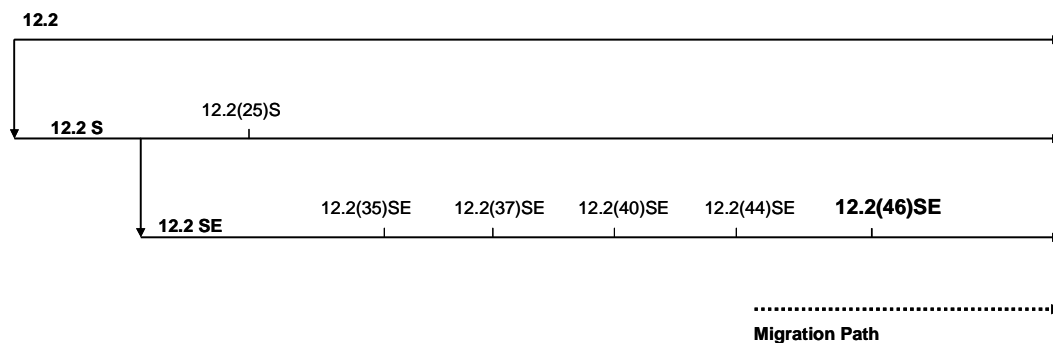
## Support

Cisco IOS Software Release 12.2(46)SE follows the standard Cisco support policy indicated at: [http://www.cisco.com/en/US/products/products\\_end-of-life\\_policy.html](http://www.cisco.com/en/US/products/products_end-of-life_policy.html).

## Software Image Migration Guide

Figure 1 displays Cisco IOS Software Release 12.2(46)SE functions relative to the 12.2S and 12.2SE releases and identifies the recommended migration path.

**Figure 1.** Cisco IOS Software Release 12.2 Release Train



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