

## New Cisco IOS Software Release 12.2(44)SE for Cisco Catalyst 3750 Metro, Cisco ME 2400 and ME 3400 Series Ethernet Access Switches

PB450723

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 pseudowire redundancy, enhanced control plane security, multicast, and manageability for Metro Ethernet deployments.

This product bulletin contains content and delivery information for Cisco IOS Software Release 12.2(44)SE.

The following new features are available with Cisco IOS Software Release 12.2(44)SE for Metro Ethernet switches:

- Pseudowire redundancy: Enables service providers to configure their Multiprotocol Label Switching) MPLS network to detect a failure in the network and reroute Layer 2 service to another endpoint that can continue to provide service.
- Configurable control plane security: Provides service providers the flexibility to selectively discard or peer with customer's control plane traffic on a per-port, per-protocol basis. This release introduces a new port type known as Enhanced Network Interface (ENI) to enable this functionality for the following L2 protocols: CDP, LLDP, LACP, PAGP, and STP.
- Configurable control plane queue assignment: Allows service providers to assign control plane traffic to specific egress queue.
- Prioritization of control plane traffic: Allows service providers to set QoS markings globally for CPU-generated traffic so these protocol packets will receive priority in the network.
- Dynamic Host Configuration Protocol (DHCP) based auto configuration and image update: Simplify management of large number of switches by automatically downloading specified configuration and image.
- Source-specific multicast (SSM) mapping: The SSM capability is an efficient and optimized multicast protocol that is used for one-to-many multicast applications such as video. SSM mapping provides a mapping of source to group, which allows listeners to find/connect to multicast sources dynamically, reducing dependencies on the application.
- FlexLinks multicast fast convergence: Increases network availability by improving convergence of multicast streams during FlexLinks failover.
- Digital optical monitoring (DOM) support: Provides a service provider with the capability to perform in-service transceiver monitoring and troubleshooting operations.
- 802.1x readiness check: Simplifies deployment by generating a report for end hosts capable of 802.1x. Readiness check can be initiated for all the ports (global) or specific

ports to determine readiness of connected end hosts, before configuring 802.1x on the switch.

Table 1 describes product support for new features of Cisco IOS Software Release 12.2(44)SE for Metro Ethernet switches, and Table 2 lists the supported switches.

**Table 1.** Cisco IOS Software Release 12.2(44)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
<b>Pseudowire Redundancy</b>	Yes	No	No	No	No	No	No
<b>Configurable Control Plane Security</b>	No	No	No	Yes	Yes	Yes	Yes
<b>Configurable Control Plane Queue Assignment</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Prioritization of Control Plane Traffic</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>DHCP-Based Autoconfiguration and Image Update</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Multicast Fast Convergence with FlexLinks Failover</b>	Yes	Yes	No	Yes	No	No	No
<b>Source-Specific Multicast Mapping</b>	Yes	Yes	No	Yes	No	No	No
<b>DOM Support*</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>802.1x Readiness Check</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes

\* requires SFP with DOM Support.

**Table 2.** Cisco Catalyst Metro Ethernet Switches Supported with Cisco IOS Software Release 12.2(40)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-12244SE</li> <li>• S340XA-12244SE</li> <li>• S340XI-12244SE</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>

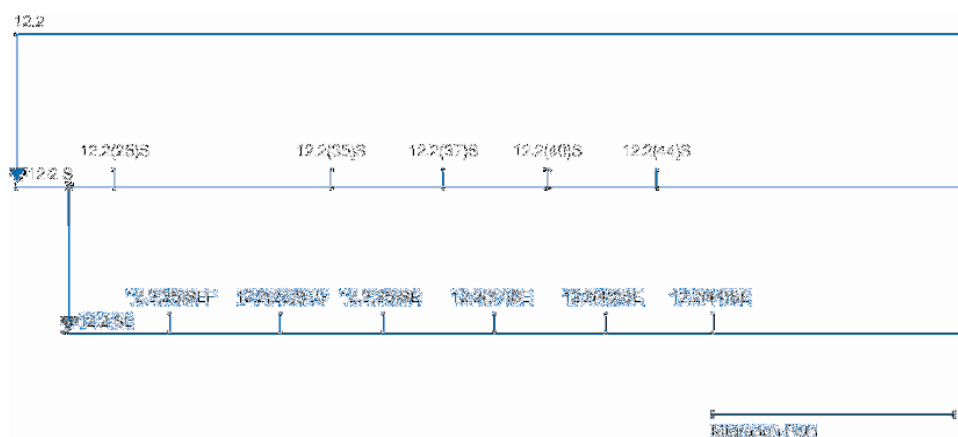
### Support

Cisco IOS Software Release 12.2(44)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(44)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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