

## Cisco ME 3400 Series Ethernet Access Switches

Product Bulletin No. 600306

Cisco IOS Software Release 12.2(54)SE for Cisco Catalyst 3750 Metro Series Switches and Cisco ME 3400 and ME 3400E Series Ethernet Access Switches

Cisco announces Cisco IOS® Software updates for Cisco Catalyst® 3750 Metro Series Switches and Cisco® ME 3400 and ME 3400E Series Ethernet Access Switches. This release advances Cisco's leadership role by providing enhanced operations, administration, and maintenance (OAM) capabilities and standard-based IEEE 802.1ad Provider Bridges for Metro Ethernet deployments.

This product bulletin contains content and delivery information for Cisco IOS Software Release 12.2(54)SE.

### New Features

The following new features are available with Cisco IOS Software Release 12.2(54)SE for Metro Ethernet switches:

- IEEE 802.1ad Provider Bridges:** Release 12.2(54)SE supports standard-compliant implementation of Layer 2 VLAN stacking and Layer 2 Tunneling Protocol (L2TP), including the definition of C-UNI and S-UNI as per the standard. These standards give the Catalyst 3750 Metro Series and Cisco ME 3400E Series additional interoperability capabilities.
- The 802.1ap MIB:** Provides MIB definition for VLAN provider bridges on Catalyst 3750 Metro Series and Cisco ME 3400 and ME 3400E Series. The 802.1ap MIB includes the object definition for 802.1ag Connectivity Fault Management (CFM).
- CFM support on customer VLAN:** Allows service providers to enable CFM Maintenance End Points (MEPs) and Maintenance Intermediate Points (MIPs) on customer VLAN, giving the VPN customer additional 802.1ag CFM capabilities. This support is available on the Catalyst 3750 Metro Series and Cisco ME 3400E Series.

Table 1 lists the product support for new features in Cisco IOS Software Release 12.2(54)SE.

**Table 1.** New Feature Support

|                          | Cisco Catalyst 3750 Metro Series: Advanced IP | Cisco Catalyst 3750 Metro Series: IP Services | Cisco Catalyst 3750 Metro Series: IP Base | Cisco ME 3400E Series: Metro IP Access | Cisco ME 3400E Series: Metro Access | Cisco ME 3400 Series: Metro IP Access | Cisco ME 3400 Series: Metro Access | Cisco ME 3400 Series: Metro Base |
|--------------------------|---|---|---|--|-------------------------------------|---------------------------------------|------------------------------------|----------------------------------|
| 802.1ad Provider Bridges | Yes   | Yes   | Yes                                       | Yes                                    | Yes                                 | No                                    | No                                 | No                               |
| CFM on C-VLAN            | Yes   | Yes   | Yes                                       | Yes                                    | Yes                                 | Yes                                   | Yes                                | Yes                              |
| 802.1ap MIB              | Yes   | Yes   | Yes                                       | Yes                                    | Yes                                 | Yes                                   | Yes                                | Yes                              |

## Supported Products

Table 2 lists the part numbers for the Metro Ethernet switches supported in Release 12.2(54)SE.

**Table 2.** Part Numbers for Cisco Catalyst Metro Ethernet Switches

| Cisco Catalyst 3750 Metro Series Switches and Software Licenses  | Cisco ME 3400E Series Switches and Software Images   | Cisco ME 3400 Series Switches and Software Images  |
|--|--|--|
| <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-3400E-24TS-M</li> <li>• ME-3400EG-12CS-M</li> <li>• ME-3400EG-2CS-A</li> <li>• S340XA-12254SE</li> <li>• S340XI-12254SE</li> <li>• CD-ME3400-A2I=</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-12254SE</li> <li>• S340XA-12254SE</li> <li>• S340XI-12254SE</li> </ul> |

## Additional Resources

### Software Downloads

Software is available for download from the following sites: <http://www.cisco.com/cisco/web/download/index.html>

- 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 Version 3 [SNMPv3], 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 sites:

- 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 3400E Series Switches: <http://www.cisco.com/en/US/products/ps9637/index.html>
- Cisco Catalyst 3750 Metro Series and Cisco ME 3400E and 3400 Series release notes:  
[http://www.cisco.com/en/US/products/hw/switches/ps5532/prod\\_release\\_notes\\_list.html](http://www.cisco.com/en/US/products/hw/switches/ps5532/prod_release_notes_list.html)  
[http://www.cisco.com/en/US/partner/products/ps6580/prod\\_release\\_notes\\_list.html](http://www.cisco.com/en/US/partner/products/ps6580/prod_release_notes_list.html)  
[http://www.cisco.com/en/US/partner/products/ps9637/prod\\_release\\_notes\\_list.html](http://www.cisco.com/en/US/partner/products/ps9637/prod_release_notes_list.html)

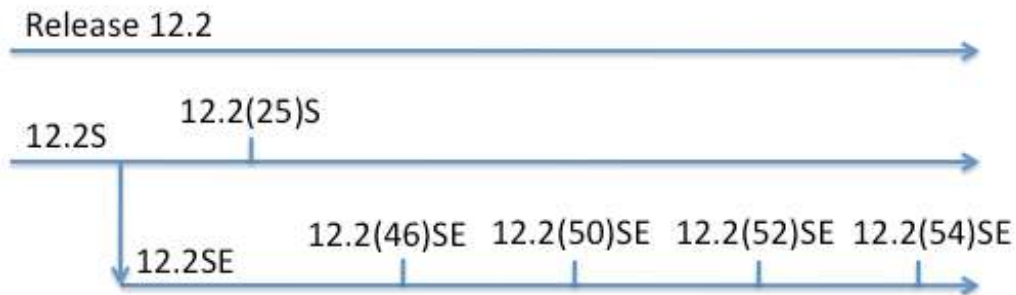
## Support

Cisco IOS Software Release 12.2(54)SE follows the standard Cisco support policy. For more information, visit [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(54)SE functions for Releases 12.2S and 12.2SE and identifies the recommended migration path.

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



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