

# Cisco IOS Software Release 12.2(58)SE for Cisco Catalyst 3750 Metro Series Switches and Cisco ME 3400 and ME 3400E Series Ethernet Access Switches

PB658305

Cisco announces Cisco IOS<sup>®</sup> Software updates for Cisco<sup>®</sup> Catalyst<sup>®</sup> 3750 Metro Series Switches and Cisco ME 3400 and ME 3400E Series Ethernet Access Switches. This release advances Cisco's leadership role by providing support for IPv6 and IPv4 support for Gateway Load Balancing Protocol (GLBP), IPv6 unicast routing support for VPN routing/forwarding (VRF)-Lite, VRF-Lite aware Dynamic Host Configuration Protocol (DHCP) client/server/relay, Layer 2 Protocol Tunneling (L2PT) support for Link Layer Discovery Protocol (LLDP), and IPv6 support for hierarchical quality of service (QoS) support (Cisco Catalyst 3750 Metro Series Switches only).

This product bulletin contains content and delivery information for Cisco IOS Software Release 12.2(58)SE.

## New Features

The following new features are available with Cisco IOS Software Release 12.2(58)SE for Metro Ethernet switches:

- **Gateway Load Balancing Protocol (GLBP):** Protects data traffic from a failed router or circuit, like Hot Standby Router Protocol (HSRP) and Virtual Router Redundancy Protocol (VRRP), while allowing packet load sharing between a group of redundant routers. Both IPv4 and IPv6 protocols are supported.
- **IPv6 unicast routing support for VRF-Lite:** VRF-Lite allows a service provider to support two or more VPNs on customer edge equipment, where IPv6 addresses can be overlapped among the VPNs.
- **VRF-Lite-aware DHCP client/server/relay:** Allows assignment of overlapping addresses (IPv4 and IPv6) in DHCP operations.
- **L2PT support for LLDP:** Allows customer LLDP packet to be transparently tunneled through service provider network.
- **IPv6 support for hierarchical QoS (3750 Metro Series only):** Supports classification, marking, shaping, policing queue limiting, bandwidth, and trust functionalities on differentiated services code point (DSCP) and precedence values parsed from the IPv6 packets.

Table 1 lists the product support for new features in Cisco IOS Software Release 12.2(58)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
<b>GLBP</b>	Yes	Yes	No	Yes	No	Yes	No	No
<b>IPv6 routing support for VRF-Lite</b>	Yes	Yes	No	Yes	No	Yes	No	No
<b>VRF-aware DHCP client/server/relay</b>	Yes	Yes	No	Yes	No	Yes	No	No
<b>L2PT support for LLDP</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>IPv6 support for hierarchical QoS</b>	Yes	Yes	No	No	No	No	No	No

## Supported Products

Table 2 lists the part numbers for the Metro Ethernet switches supported in Release 12.2(58)SE.

**Table 2.** Part Numbers for Cisco 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-12258SE</li> <li>• S340XI-12258SE</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-12258SE</li> <li>• S340XA-12258SE</li> <li>• S340XI-12258SE</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.

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## 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)

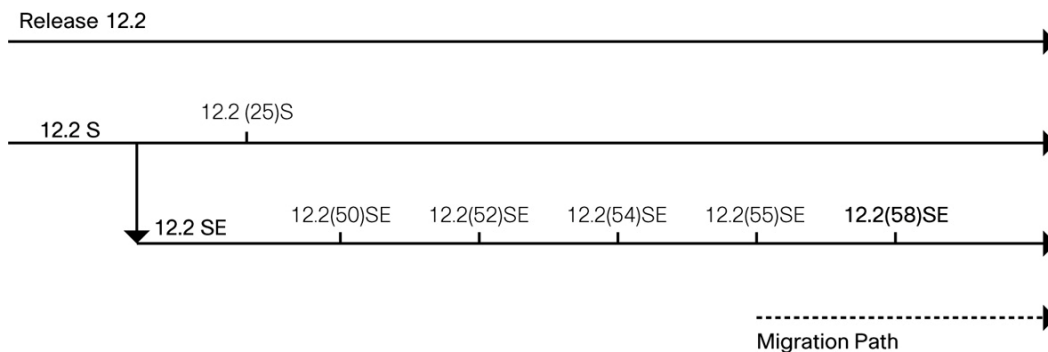
## Support

Cisco IOS Software Release 12.2(58)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(58)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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