Features and Important Notes for Cisco IOS Release 15.3(3)S

These release notes describe the following topics:

New and Changed Information

This section lists the new hardware and software features supported by Cisco IOS Release 15.3(3)S and contains the following subsections:

New Hardware Features in Cisco IOS Release 15.3(3)S4

There are no new hardware features in Cisco IOS Release 15.3(3)S4.

New Software Features in Cisco IOS Release 15.3(3)S4

There are no new software features in Cisco IOS Release 15.3(3)S4.

New Hardware Features in Cisco IOS Release 15.3(3)S3

There are no new hardware features in Cisco IOS Release 15.3(3)S3.

New Software Features in Cisco IOS Release 15.3(3)S3

There are no new software features in Cisco IOS Release 15.3(3)S3.

New Hardware Features in Cisco IOS Release 15.3(3)S2

There are no new hardware features in Cisco IOS Release 15.3(3)S2.

New Software Features in Cisco IOS Release 15.3(3)S2

There are no new software features in Cisco IOS Release 15.3(3)S2.

New Hardware Features in Cisco IOS Release 15.3(3)S1

There are no new hardware features in Cisco IOS Release 15.3(3)S1.

New Software Features in Cisco IOS Release 15.3(3)S1

There are no new software features in Cisco IOS Release 15.3(3)S1.

New Hardware Features in Cisco IOS Release 15.3(3)S

This section describes new and changed features in Cisco IOS Release 15.3(3)S. Some features may be new to Cisco IOS Release 15.3(3)S but were released in earlier Cisco IOS software releases. Some features may have been released in earlier Cisco IOS software releases and have been changed in Cisco IOS Release 15.3(3)S. To determine if a feature is new or changed, see the feature information table at the end of the feature module for that feature. Links to feature modules are included. If a feature does not have a link to a feature module, that feature is documented only in the release notes.

DWDM SFP+

Platform: Cisco ASR 901, Cisco ASR 901 10G

Support was added for Dense Wavelength Division Multiplexing (DWDM) SFP+ on the Cisco ASR 901 10G series routers. This module provides scalable and easy-to-deploy 10-Gigabit LAN, WAN, and Optical Transport Network (OTN) services. It supports 40 non-tunable ITU 100-GHz wavelengths and provides digital optical monitoring capability.

New Software Features in Cisco IOS Release 15.3(3)S

This section describes new and changed features in Cisco IOS Release 15.3(2)S. Some features may be new to Cisco IOS Release 15.3(2)S but were released in earlier Cisco IOS software releases. Some features may have been released in earlier Cisco IOS software releases and have been changed in Cisco IOS Release 15.3(2)S. Links to feature modules are included. If a feature listed does not have a link to a feature module, that feature is documented only in the release notes.

Auto-IP

Platform: Cisco 7600, Cisco ME 3600, Cisco ME 3600X-24CX, Cisco ME 3800

For detailed information about this feature, see the following document:

http://www.cisco.com/en/US/docs/ios-xml/ios/ipaddr_ipv4/configuration/15-s/Auto-IP.html

Broadcast/Multicast Suppression

Platform: Cisco ASR 901, Cisco ASR 901 10G

The Broadcast and Multicast Suppression feature prevents switchports on a LAN from being disrupted by a broadcast, multicast, or unknown unicast storm on one of the interfaces. For detailed information about this feature, see the following document:

http://www.cisco.com/en/US/docs/wireless/asr_901/Configuration/Guide/storm_control.html

Callhome V2 Enhancements

Platform: Cisco 7600

For detailed information about this feature, see the following document:

http://www.cisco.com/en/US/docs/routers/7600/ios/15S/configuration/guide/7600_15_0s_book.html

Diagnostic Signatures

Platform: Cisco 7600

For detailed information about this feature, see the following document:

http://www.cisco.com/en/US/docs/ios-xml/ios/ha/configuration/15-s/ha-config-diag-sign.html

Digital Optical Monitoring (DOM) for 10 Gig Optics

Platform: Cisco ASR 901 10G

For detailed information about this feature, see the following document:

http://www.cisco.com/en/US/docs/wireless/asr_901/Configuration/Guide/dom.html

Egress Policing

Platform: Cisco ASR 901, Cisco ASR 901 10G

Egress policing can be classified based on QoS-groups, DSCP, and precedence value. For QoS-groups to work at egress, you should map the traffic at ingress to a specific QoS-group value. For detailed information about this feature, see the following document:

http://www.cisco.com/en/US/docs/wireless/asr_901/Configuration/Guide/qos.html

EIGRP Over the Top

Platform: Cisco 7600

For detailed information about this feature, see the following document:

http://www.cisco.com/en/US/docs/ios-xml/ios/iproute_eigrp/configuration/15-s/ire-eigrp-over-the-top.html

Hierarchical Color-Aware Policing

Platform: Cisco ME 3600, Cisco ME 3600X-24CX, Cisco ME 3800

This feature provides two levels of policing where the policer ordering is evaluated from child to parent, and there is preferential treatment of certain traffic at the parent level. For detailed information about this feature, see the following document:

http://www.cisco.com/en/US/docs/switches/metro/me3600x_3800x/software/release/15.3_3_S/configuration/guide/swhier_ca_police.html

IP SLA—Service Performance Testing Infrastructure

Platform: Cisco ME 3600X-24CX switch

Y.1564 is an Ethernet service activation test methodology, and is the standard for turning up, installing, and troubleshooting Ethernet-based services. Y.1564 is the only standard test methodology that allows a complete validation of Ethernet service level agreements (SLAs) in a single test.

Service performance testing is designed to measure the ability of a device under test (DUT) or a network under test to properly forward traffic in different states.

For detailed information about this feature, see the following document:

http://www.cisco.com/en/US/docs/switches/metro/me3600x_3800x/software/release/15.3_3_S/chassis/configuration/guide/swy1564.html

IP SLAs—Asymmetric Probe Support for UDP Jitter

Platform: Cisco ME 3600, Cisco ME 3600X-24CX, Cisco ME 3800

For detailed information about this feature, see the following document:

http://www.cisco.com/en/US/docs/ios-xml/ios/ipsla/configuration/15-s/sla_udp_jitter.html

MPLS Embedded Management—LSP Ping Support for MLDP

Platform: Cisco 7600

For detailed information about this feature, see the following document:

http://www.cisco.com/en/US/docs/ios-xml/ios/mp_em_and_mibs/configuration/15-s/mp-mpls-em-mldp-lsp-ping.html

MPLS Traffic Engineering (TE) —Fast Reroute (FRR) Link Protection

Platform: Cisco ASR 901, Cisco ASR 901 10G

Support for CESoPSN, SAToP, and ATM/IMA was added from Cisco IOS Realease 15.3(3)S onwards. For detailed information about this feature, see the following document:

http://www.cisco.com/en/US/docs/wireless/asr_901/Configuration/Guide/mpls_te-frr.html

MQC—Multi-Level Priority Queue

Platform: Cisco ME 3600, Cisco ME 3600X-24CX, Cisco ME 3800

For detailed information about this feature, see the following document:

http://www.cisco.com/en/US/docs/ios-xml/ios/qos_conmgt/configuration/15-s/qos-conmgt-multilevel-pq.html

Multiaction Ingress Policer on EVC

Platform: Cisco ASR 901, Cisco ASR 901 10G

Effective with Cisco IOS Release 15.3(3)S, the Cisco ASR 901 supports policing ingress traffic over the cross connect EVC, similar to bridge domain service policy.

For detailed information about this feature, see the following document:

http://www.cisco.com/en/US/docs/wireless/asr_901/Configuration/Guide/qos.html

Multiprotocol Label Switching (MPLS) Load Balancing

Platform: Cisco ME 3600X, Cisco ME 3800X

The Cisco ME3800 and ME3600 Switches supports IPv4 and IPv6 load balancing at the LER and LSR. Effective with Cisco IOS Release 15.3(3)S, the following features are supported:

- Layer 2 VPN load balancing at LER and LSR
- Layer 3 VPN load balancing at LER and LSR
- Load balancing over port channel at LER and LSR

For detailed information about this feature, see the following document:

http://www.cisco.com/en/US/docs/switches/metro/me3600x_3800x/software/release/15.3_3_S/configuration/guide/swmplsloadbalancing.html

MVPN BGP C-Route Full SM Support

Platform: Cisco 7600

For detailed information about this feature, see the following document:

http://www.cisco.com/en/US/docs/ios-xml/ios/ipmulti_mvpn/configuration/15-s/imc_bgp_croute.html

MVPN mLDP Partitioned MDT Including Wildcard

Platform: Cisco 7600

For detailed information about this feature, see the following document:

http://www.cisco.com/en/US/docs/ios-xml/ios/ipmulti_mvpn/configuration/15-s/imc_mldp_mdt.html

Object Tracking: IPv6 Route Tracking

Platform: Cisco 7600

For detailed information about this feature, see the following document:

http://www.cisco.com/en/US/docs/ios-xml/ios/ipapp/configuration/15-s/iap-ipv6-route-track.html

ME3600x-24CX OC3 Port Support

Platform: Cisco ME 3600

For detailed information about this feature, see the following document:

http://www.cisco.com/en/US/docs/switches/metro/me3600x_3800x/software/release/15.3_3_S/chassis/configuration/guide/OC3_Ifc_Module.html

Port Licensing

Platform: Cisco ME 3600X-24CX

For detailed information about this feature, see the following document:

http://www.cisco.com/en/US/docs/switches/metro/me3600x_3800x/software/release/15.3_3_S/chassis/configuration/guide/sw_port_licensing.html

QoS Classification Based on EFP

Platform: Cisco ME 3600, Cisco ME 3600X-24CX, Cisco ME 3800

For detailed information about this feature, see the following document:

http://www.cisco.com/en/US/docs/switches/metro/me3600x_3800x/software/release/15.3_3_S/configuration/guide/swqos.html

RFC 3107 Labeled BGP Support for TDM Pseudowire

Platform: Cisco ASR 901, Cisco ASR 901 10G

For detailed information about this feature, see the following document:

http://www.cisco.com/en/US/docs/wireless/asr_901/Configuration/Guide/labeled_bgp.html

VRRP Aware PIM

Platform: Cisco 7600

For detailed information about this feature, see the following document:

http://www.cisco.com/en/US/docs/ios-xml/ios/ipmulti_pim/configuration/15-s/imc_vrrp_aware.html

VRRPv3: Object Tracking Integration

Platform: Cisco 7600

For detailed information about this feature, see the following document:

http://www.cisco.com/en/US/docs/ios-xml/ios/ipapp_fhrp/configuration/15-s/fhrp-vrrpv3-obj-trk.html

Y.1731 Performance Monitoring

Platform: Cisco ASR 901, Cisco ASR 901 10G

Each Maintenance End Point (MEP) transmits frames with one-way ETH-DM information to its peer MEP in a point-to-point ME. This transmission facilitates either one-way frame delay or one-way frame delay variation measurements, or both, at the peer MEP. The one-way ETH-DM is supported only on the Cisco ME3600X-24CX-M switch. For detailed information about this feature, see the following document:

http://www.cisco.com/en/US/docs/switches/metro/me3600x_3800x/software/release/15.3_3_S/configuration/guide/swy1731pm.html

Y.1731 Performance Monitoring

Platform: Cisco ME 3600X-24CX

For detailed information about this feature, see the following document:

http://www.cisco.com/en/US/docs/ios-xml/ios/cether/configuration/15-s/sla_mether3_y1731.html

http://www.cisco.com/en/US/docs/ios-xml/ios/cether/configuration/15-s/sla_y1731_demand.html

MIBs

To locate and download MIBs for selected platforms, Cisco IOS releases, and feature sets, use the Cisco MIB Locator found at the following URL:

http://tools.cisco.com/ITDIT/MIBS/servlet/index

If the Cisco MIB Locator does not support the MIB information that you need, you can obtain a list of supported MIBs and download MIBs from the Cisco MIBs page at the following URL:

http://www.cisco.com/public/sw-center/netmgmt/cmtk/mibs.shtml

To access the Cisco MIB Locator, you must have an account on Cisco.com. If you have forgotten or lost your account information, send a blank email to cco-locksmith@cisco.com. An automatic check will verify that your email address is registered with Cisco.com. If the check is successful, account details with a new random password will be emailed to you. Qualified users can establish an account on Cisco.com by following the directions found at this URL:

http://tools.cisco.com/RPF/register/register.do

Important Notes

The following sections contain important notes about Cisco IOS Release 15.3S:

- Field Notices and Bulletins, page 17

Field Notices and Bulletins

- Field Notices—Cisco recommends that you view the field notices for this release to see if your software or hardware platforms are affected. You can find field notices at http://www.cisco.com/en/US/support/tsd_products_field_notice_summary.html.
- Bulletins—You can find bulletins at http://www.cisco.com/en/US/products/sw/iosswrel/ps5012/prod_literature.html.