

Features and Important Notes for Cisco IOS Release 15.2(2)S

These release notes describe the following topics:

- [New and Changed Information, page 31](#)
- [MIBs, page 40](#)
- [Important Notes, page 41](#)

New and Changed Information

This section lists the new hardware and software features supported by Cisco IOS Release 15.2S and contains the following subsections:

- [New Hardware Features in Cisco IOS Release 15.2\(2\)S2, page 31](#)
- [New Software Features in Cisco IOS Release 15.2\(2\)S2, page 31](#)
- [New Hardware Features in Cisco IOS Release 15.2\(2\)S1, page 31](#)
- [New Software Features in Cisco IOS Release 15.2\(2\)S1, page 32](#)
- [New Hardware Features in Cisco IOS Release 15.2\(2\)S, page 33](#)
- [New Software Features in Cisco IOS Release 15.2\(2\)S, page 33](#)

New Hardware Features in Cisco IOS Release 15.2(2)S2

There are no new hardware features in Cisco IOS Release 15.2(2)S2.

New Software Features in Cisco IOS Release 15.2(2)S2

There are no new software features in Cisco IOS Release 15.2(2)S2.

New Hardware Features in Cisco IOS Release 15.2(2)S1

This section describes new and changed features in Cisco IOS Release 15.2(2)S1. Some features may be new to Cisco IOS Release 15.2(2)S1 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 15.2(2)S1. 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, and information about whether the feature is new or changed will be available in the feature description provided.

T1/E1 Support On Cisco ME 3600X-24CS

Platform: Cisco ME 3600X-24CX

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

http://www.cisco.com/en/US/docs/switches/metro/me3600x_3800x/software/release/15.2_2_S/chassis/configuration/guide/sw_T1-E1.html

New Software Features in Cisco IOS Release 15.2(2)S1

This section describes new and changed features in Cisco IOS Release 15.2(2)S1. Some features may be new to Cisco IOS Release 15.2(2)S1 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 15.2(2)S1. 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, and information about whether the feature is new or changed will be available in the feature description provided.

BFD—BFD Hardware Offload Support

Platform: Cisco ME 3600X-24CX

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

http://www.cisco.com/en/US/docs/switches/metro/me3600x_3800x/software/release/15.2_2_S/chassis/configuration/guide/swbfd.html

Circuit Emulation over Packet Switched Network

Platform: Cisco ME 3600X-24CX

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

http://www.cisco.com/en/US/docs/switches/metro/me3600x_3800x/software/release/15.2_2_S/chassis/configuration/guide/swclocking.html

Dynamic ARP Inspection

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

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

http://www.cisco.com/en/US/docs/switches/metro/me3600x_3800x/software/release/15.2_2_S/configuration/guide/swdynarp.html

MVPN

Platform: Cisco ME 3600X, Cisco ME 3800X

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

http://www.cisco.com/en/US/docs/ios-xml/ios/ipmulti_mvnpn/configuration/15-2s/imc_cfg_mc_vpn.html

SAToP over MPLS

Platform: Cisco ME 3600X-24CX

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

http://www.cisco.com/en/US/docs/switches/metro/me3600x_3800x/software/release/15.2_2_S/chassis/configuration/guide/swclocking.html

Synchronous Ethernet: ESMC and SSM

Platform: Cisco ME 3600X-24CX

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

http://www.cisco.com/en/US/docs/switches/metro/me3600x_3800x/software/release/15.2_2_S/chassis/configuration/guide/swpseudowire.html

Table Map QoS Functionality Phase 2

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

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

http://www.cisco.com/en/US/docs/switches/metro/me3600x_3800x/software/release/15.2_2_S/configuration/guide/swqos.html

New Hardware Features in Cisco IOS Release 15.2(2)S

This section describes new and changed features in Cisco IOS Release 15.2(2)S. Some features may be new to Cisco IOS Release 15.2(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 15.2(2)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, and information about whether the feature is new or changed will be available in the feature description provided.

Cisco Catalyst 6500 16-Port 10 Gigabit Ethernet Copper Module with DFC3C (WS-X6716-10GT-3C); Cisco Catalyst 6500 16-Port 10 Gigabit Ethernet Copper Module with DFC3CXL (WS-X6716-10GT-3CXL)

Platform: Cisco 7600

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

http://www.cisco.com/en/US/docs/routers/7600/Hardware/15_0s/7600_hwd.html

32k PVC Scale with Multipoint Bridging on SIP-400

Platform: Cisco 7600

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

http://www.cisco.com/en/US/docs/interfaces_modules/shared_port_adapters/configuration/7600series/76cfgatm.html

New Software Features in Cisco IOS Release 15.2(2)S

This section describes new and changed features in Cisco IOS Release 15.2(2)S. Some features may be new to Cisco IOS Release 15.2(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 15.2(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, and information about whether the feature is new or changed will be available in the feature description provided.

32k PVC Scale with Multipoint Bridging on SIP-400

Platform: Cisco 7600

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

http://www.cisco.com/en/US/docs/interfaces_modules/shared_port_adapters/configuration/7600series/76cfgatm.html

802.3ah Enhancements—Dying Gasp on ES+ and Remote Loopback Initiation and Response

Platform: Cisco 7600

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

http://www.cisco.com/en/US/docs/routers/7600/install_config/ES40_config_guide/es40_chap4.html

Access Switch Device Manager Template

Platform: Cisco ME3600X, Cisco ME 3800X

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

http://www.cisco.com/en/US/docs/switches/metro/me3600x_3800x/software/release/15.2_2_S/configuration/guide/swsdm.html

ACL Syslog Correlation

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

http://www.cisco.com/en/US/docs/ios-xml/ios/sec_data_acl/configuration/15-2s/sec-acl-syslog.html

BFD Support for EIGRP IPv6

Platform: Cisco 7600

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

http://www.cisco.com/en/US/docs/ios-xml/ios/iproute_eigrp/configuration/15-2s/ire-bfd-ipv6.html

BGP—Graceful Shutdown

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

http://www.cisco.com/en/US/docs/ios-xml/ios/iproute_bgp/configuration/15-2s/irg-grace-shut.html

BGP—iBGP NSR

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

http://www.cisco.com/en/US/docs/ios-xml/ios/iproute_bgp/configuration/15-2s/irg-nsr-ibgp.html

BGP—mVPN BGP sAFI 129—IPv4

Platform: Cisco 7600

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

http://www.cisco.com/en/US/docs/ios-xml/ios/iproute_bgp/configuration/15-2s/irg-mvpn-safi.html

BGP NSR Without Route-Refresh

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

http://www.cisco.com/en/US/docs/ios-xml/ios/iproute_bgp/configuration/15-2s/irg-nsr-autosense.html

Cisco IOS ACL Support for Filtering IP Options

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

http://www.cisco.com/en/US/docs/ios-xml/ios/sec_data_acl/configuration/15-2s/sec-create-ip-al-filter.html

Control Plane Policing

Platform: Cisco ME 3600X, Cisco ME 3800X

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

http://www.cisco.com/en/US/docs/switches/metro/me3600x_3800x/software/release/15.2_2_S/configuration/guide/swcopp.html

DHCP Snooping

Platform: Cisco ME 3600X, Cisco ME 3800X

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

http://www.cisco.com/en/US/docs/switches/metro/me3600x_3800x/software/release/15.2_2_S/configuration/guide/swdhcp82.html

DHCPV6 Support

Platform: Cisco ME 3600X, Cisco ME 3800X

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

http://www.cisco.com/en/US/docs/switches/metro/me3600x_3800x/software/release/15.2_2_S/configuration/guide/swdhcp82.html

EIGRP IPv6 NSF/GR

Platform: Cisco 7600

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

http://www.cisco.com/en/US/docs/ios-xml/ios/iproute_eigrp/configuration/15-2s/eigrp-ip6-nsf.html

EIGRP Route Tag Enhancements

Platform: Cisco 7600

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

http://www.cisco.com/en/US/docs/ios-xml/ios/iproute_eigrp/configuration/15-2s/ire-en-rou-tags.html

Embedded Event Manager 4.0

Platform: Cisco ME 3600X, Cisco ME 3800X

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

http://www.cisco.com/en/US/docs/switches/metro/me3600x_3800x/software/release/15.2_2_S/configuration/guide/sweem.html

Enhanced Route Tags

Platform: Cisco 7600

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

http://www.cisco.com/en/US/docs/ios-xml/ios/iproute_eigrp/configuration/15-2s/ire-en-rou-tags.html

ES+T+XC-20G and ES+T+XC-40G

Platform: Cisco 7600

For detailed information about this feature, see the documents at the following URLs:

http://www.cisco.com/en/US/docs/routers/7600/Hardware/15_0s/7600_hwd.html

http://www.cisco.com/en/US/docs/routers/7600/Hardware/Module_and_Line_Card_Installation_Guides/ES40_Line_Card_Installation_Guide/es40_chap1.html

http://www.cisco.com/en/US/docs/routers/7600/Hardware/Module_and_Line_Card_Installation_Guides/ES40_Line_Card_Installation_Guide/es40_chap2.html

IGMP Snooping over PW

Platform: Cisco ME 3600X, Cisco ME 3800X

For detailed information about this feature, see the documents at the following URL:

http://www.cisco.com/en/US/docs/switches/metro/me3600x_3800x/software/release/15.2_2_S/configuration/guide/swigmp.html

IGMP Snooping v1, v2, v3 for Aggregated Links and LAG

Platform: Cisco ME 3600X, Cisco ME 3800X

For detailed information about this feature, see the documents at the following URL:

http://www.cisco.com/en/US/docs/switches/metro/me3600x_3800x/software/release/15.2_2_S/configuration/guide/swigmp.html

IP FRR

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

http://www.cisco.com/en/US/docs/ios-xml/ios/iproute_pi/configuration/15-2s/iri-ip-lfa-frr.html

IP SLAs TWAMP Responder v1.0

Platform: Cisco 7600

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

http://www.cisco.com/en/US/docs/ios-xml/ios/ipsla/configuration/15-2s/sla_twamp.html

IPv4 Multicast per VRF

Platform: Cisco ME 3600X, Cisco ME 3800X

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

http://www.cisco.com/en/US/docs/switches/metro/me3600x_3800x/software/release/15.2_2_S/configuration/guide/swiprout.html

IPv6 ACL Extensions for Hop by Hop Filtering

Platform: Cisco 7600

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

<http://www.cisco.com/en/US/docs/ios-xml/ios/ipv6/configuration/15-2s/ip6-acl-ext-hbh.html>

IPv6 Routing—Unicast Routing

Platform: Cisco ME 3600X, Cisco ME 3800X

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

http://www.cisco.com/en/US/docs/switches/metro/me3600x_3800x/software/release/15.2_2_S/configuration/guide/swipv6.html

IPv6 Support for VSPA

Platform: Cisco 7600

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

http://www.cisco.com/en/US/docs/interfaces_modules/services_modules/vspa/configuration/guide/ivmvpn3.html

IRB Multicast

Platform: Cisco ME 3600X, Cisco ME 3800X

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

http://www.cisco.com/en/US/docs/switches/metro/me3600x_3800x/software/release/15.2_2_S/configuration/guide/swevc.html

IS-IS—Remote LFA FRR

Platform: Cisco 7600

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

http://www.cisco.com/en/US/docs/ios-xml/ios/iproute_isis/configuration/15-2s/irs-rmte-lfa-frr.html

L2 and L3 QoS ACL Classification for EVC on ES+

Platform: Cisco ME 3600X, Cisco ME 3800X

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

http://www.cisco.com/en/US/docs/switches/metro/me3600x_3800x/software/release/15.2_2_S/configuration/guide/swacl.html

L4 Port Match in QoS ACL

Platform: Cisco ME 3600X, Cisco ME 3800X

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

http://www.cisco.com/en/US/docs/switches/metro/me3600x_3800x/software/release/15.2_2_S/configuration/guide/swqos.html

MAC Limiting per VFI and BD

Platform: Cisco ME 3600X, Cisco ME 3800X

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

http://www.cisco.com/en/US/docs/switches/metro/me3600x_3800x/software/release/15.2_2_S/configuration/guide/swadmin.html

Minimum Link Support for Port Channel

Platform: Cisco ME 3600X, Cisco ME 3800X

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

http://www.cisco.com/en/US/docs/switches/metro/me3600x_3800x/software/release/15.2_2_S/configuration/guide/swethchl.html

Multicast Adjacencies Scale Reservation

Platform: Cisco 7600

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

<http://www.cisco.com/en/US/docs/routers/7600/ios/15S/configuration/guide/pfc3mpls.html>

Multicast Service Reflection

Platform: Cisco 7600

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

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

Object Groups for ACLs

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

http://www.cisco.com/en/US/docs/ios/sec_data_plane/configuration/guide/sec_object_group_acl.html

OPT-IF-MIB

Platform: Cisco 7600

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

http://www.cisco.com/en/US/docs/routers/7600/technical_references/7600_mib_guides/MIB_Guide_ver_6/7600mib3.html

OSPF IPv4 Remote Loop-Free Alternate IP Fast Reroute

Platform: Cisco 7600

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

http://www.cisco.com/en/US/docs/ios-xml/ios/iproute_ospf/configuration/15-2s/iro-ipfrr-lfa.html

OSPFv3 VRF-Lite/PE-CE

Platform: Cisco 7600

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

http://www.cisco.com/en/US/docs/ios-xml/ios/iproute_ospf/command/iro-cr-book.html

PIM Snooping

Platform: Cisco ME 3600X, Cisco ME 3800X

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

http://www.cisco.com/en/US/docs/switches/metro/me3600x_3800x/software/release/15.2_2_S/configuration/guide/swsnooppim.html

Routed Pseudowire and Routed VPLS

Platform: Cisco 7600

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

http://www.cisco.com/en/US/docs/ios-xml/ios/mp_12_vpns/configuration/15-2s/mp-rt-pw-rt-vpls.html

SSO Support for MPLS-TE Autotunnel-Automesh

Platform: Cisco 7600

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

http://www.cisco.com/en/US/docs/ios-xml/ios/mp_ha/configuration/15-2s/mp-sso-supp-mpls-te-autotun-automesh.html

Storm Control over EVC

Platform: Cisco 7600

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

http://www.cisco.com/en/US/docs/routers/7600/install_config/ES40_config_guide/es40_chap4.html

Switch Port Analyzer—Distributed Egress SPAN

Platform: Cisco 7600

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

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

Table Map Support Along with Policers

Platform: Cisco ME 3600X, Cisco ME 3800X

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

http://www.cisco.com/en/US/docs/switches/metro/me3600x_3800x/software/release/15.2_2_S/configuration/guide/swqos.html

V6 Security ACL for EVC

Platform: Cisco ME 3600X, Cisco ME 3800X

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

http://www.cisco.com/en/US/docs/switches/metro/me3600x_3800x/software/release/15.2_2_S/configuration/guide/swv6acl.html

VRF Aware IPv6 Tunnels over IPv4 Transport

Platform: Cisco 7600

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

http://www.cisco.com/en/US/docs/routers/7600/install_config/ES40_config_guide/es40_chap13.html

Y.1731 MIB Support Through Existing IPSLA MIBs

Platform: Cisco 7600, Cisco ME 3600X, Cisco ME 3800X

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

http://www.cisco.com/en/US/docs/ios-xml/ios/ipsla/configuration/15-2s/sla_mether3_y1731.html

Y.1731 Performance Monitoring for Cisco ME 3600 and Cisco ME 3800

Platform: Cisco ME 3600X, Cisco ME 3800X

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

http://www.cisco.com/en/US/docs/switches/metro/me3600x_3800x/software/release/15.2_2_S/configuration/guide/swy1731pm.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 e-mail to cco-locksmith@cisco.com. An automatic check will verify that your e-mail address is registered with Cisco.com. If the check is successful, account details with a new random password will be e-mailed 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 15.2S:

- [Cisco IOS Behavior Changes, page 41](#)
- [Deferrals, page 43](#)
- [Field Notices and Bulletins, page 43](#)

Cisco IOS Behavior Changes

Behavior changes describe the minor modifications to the way a device works that are sometimes introduced in a new software release. These changes typically occur during the course of resolving a software defect and are therefore not significant enough to warrant the creation of a standalone document. When behavior changes are introduced, existing documentation is updated with the changes described in these sections.

Behavior changes are provided for the following releases:

- [Cisco IOS Release 15.2\(2\)S2, page 41](#)
- [Cisco IOS Release 15.2\(2\)S1, page 42](#)

Cisco IOS Release 15.2(2)S2

The following behavior changes were introduced in Cisco IOS Release 15.2(2)S2:

- The maximum value for cleanup-delay time that is configured using the `mpls traffic-eng reoptimize timers delay cleanup-delay time` command to delay the removal of old LSPs after tunnel reoptimization, is changed to 300 seconds.

Old Behavior: The maximum value for cleanup-delay time that is configured using the `mpls traffic-eng reoptimize timers delay cleanup-delay time` command, is 60 seconds.

New Behavior: The maximum value for cleanup-delay time that is configured using the `mpls traffic-eng reoptimize timers delay cleanup-delay time` command, is 300 seconds.

Additional Information:

<http://www.cisco.com/en/US/docs/ios-xml/ios/mpls/command/mp-m4.html#GUID-B64630A1-3CD7-42DE-8E86-6CD47AC8981A>

- The metadata service functionality is added to the SAF feature.

Old Behavior: The metadata service functionality is not available.

New Behavior: The Cisco SAF Forwarder can send service metadata to its neighbor SAF nodes. Metadata is XML information, and service data is information that a server communicates to a client about itself. The service metadata does not propagate in mixed Cisco IOS Release 15.1(3)S and Cisco IOS Release 15.2(1)S environments until such time that the version of EIGRP and SAF is upgraded.

Additional Information:

<http://www.cisco.com/en/US/docs/ios-xml/ios/saf/configuration/15-2s/saf-15-2s-book.html>

- For the Carrier Packet Transport (CPT) system, an alert is displayed whenever a round-trip delay threshold violation occurs during an IP SLAs Metro-Ethernet 3.0 (ITU-T Y.1731) operation.

Old Behavior: When a round-trip delay exceeds the specified threshold, an event is sent and IP SLAs generates a notification to the network management application.

New Behavior: For the CPT system, when a round-trip delay threshold violation occurs during an IP SLAs Metro-Ethernet 3.0 (ITU-T Y.1731) operation, an alert is displayed in addition to IP SLAs sending a notification. The alert is cleared when the round-trip delay falls back below the specified threshold value.

Additional Information: http://www.cisco.com/en/US/docs/ios-xml/ios/ipsla/command/sla_i1.html

- Taps on the same stream with different port range is accepted for RP based LI.

Old Behavior: Taps on the same stream with different port range was rejected.

New Behavior: Taps on the same stream with different port range is accepted.

Additional Information:

http://www.cisco.com/en/US/docs/routers/7600/ios/12.2SR/configuration/lawful_intercept/76LIch2.html

- The default mode for the default transform set is changed to tunnel.

Old Behavior: The default mode for all transform sets, including the default transform set, is tunnel.

New Behavior: The default mode for the default transform set is transport; the default mode for all other transform sets is tunnel.

Additional Information:

http://www.cisco.com/en/US/docs/ios-xml/ios/sec_conn_ike2vpn/configuration/15-2s/sec-cfg-ikev2-flex.html

Cisco IOS Release 15.2(2)S1

The following behavior changes were introduced in Cisco IOS Release 15.2(2)S1:

- Changes are made to classification of PADI packets on ATM Auto Virtual Circuits.

Old Behavior: All packets transmitted over ATM AutoVC are classified using the default class link type.

New Behavior: PPPoE Active Discovery Initiation (PADI) packets transmitted over ATM AutoVC are classified using the PPPOE_DISCOVERY link type.

Non-PADI packets continue to be classified using the default class link type. Each ATM cell of a PADI packet is punted as a separate packet, and is counted toward the PPPOE_DISCOVERY packet count.

The **match protocol pppoe-discovery** command matches all PPPoE control packets that are sent to the control plane including the PADI packets.

Additional Information:

http://www.cisco.com/en/US/docs/ios-xml/ios/qos/command/match_access-group_through_mls_ip_pbr.html

- The **mode tunnels** command is disabled by default.

Old Behavior: PfR automatically creates dynamic tunnels between all border routers.

New Behavior: Dynamic tunnels are not automatically created between border routers.

Additional Information: <http://www.cisco.com/en/US/docs/ios-xml/ios/pfr/command/pfr-h1.html>

- For routed ports and switched virtual interfaces (SVIs) that are configured on a Cisco Ethernet switch port, the maximum number of inbound interfaces (IIFs) or outbound interfaces (OIFs) supported is now 128.

Old Behavior: The maximum number of IIFs or OIFs supported is 64 for any of the following configurations: routed ports or SVIs that are configured on a switch port or for an Ethernet Flow Point (EFP).

New Behavior: For routed ports and SVIs configured on a switch port, the maximum number of supported IIFs and OIFs is increased to 128.

- Virtual template lock functionality is changed.

Old Behavior: A virtual template of the type tunnel with cloned virtual access interfaces can be configured. The virtual template dynamically updates the configuration to the cloned virtual access interfaces, thereby causing instability in some scenarios.

New Behavior: A virtual template of the type tunnel with cloned virtual access interfaces cannot be configured.

Additional Information:

http://www.cisco.com/en/US/docs/ios-xml/ios/sec_conn_vpniips/configuration/15-2s/sec-ipsec-virt-tunnl.html

Deferrals

Cisco IOS software images are subject to deferral. Cisco recommends that you view the deferral notices at the following location to determine if your software release is affected:

<http://www.cisco.com/cisco/software/advisory.html>

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.

