



Features and Important Notes for Cisco IOS Release 15.5(1)T

This document lists the new features and important notes in Cisco IOS Release 15.5(1)T:

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- [Important Notes, on page 7](#)

New and Changed Information

This section lists the new hardware and software features supported in Cisco IOS Release 15.5(1)T:

New Hardware Features Supported in Cisco IOS Release 15.5(1)T

This section describes new and changed features in Cisco IOS Release 15.5(1)T. Some features may be new to Cisco IOS Release 15.5(1)T 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 15.5(1)T. 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.

Cisco 897VAB-K9 Integrated Services Router

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

<http://www.cisco.com/c/en/us/td/docs/routers/access/800/hardware/installation/guide/800HIG/prodoverview.html>

Cisco C891-24X/K9 Integrated Services Router

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

<http://www.cisco.com/c/en/us/td/docs/routers/access/800/hardware/installation/guide/800HIG/prodoverview.html#pgfld-1203199>

New Software Features Supported in Cisco IOS Release 15.5(1)T

This section describes new and changed features in Cisco IOS Release 15.5(1)T. Some features may be new to Cisco IOS Release 15.5(1)T 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 15.5(1)T. 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.

8K GM Scale Improvement

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_conn_getvpn/configuration/15-mt/sec-get-vpn-15-mt-book/sec-get-vpn-gm-scale-improve.html

AnyConnect dual stack support on IOS FlexVPN gateway - Announcing IPv6 capability over GRE

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_conn_ike2vpn/configuration/15-mt/sec-flex-vpn-15-mt-book/sec-cfg-flex-serv.html

BGP – 4-byte AS RD and RT Support (RFC5668)

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute_bgp/configuration/15-mt/irg-15-mt-book/irg-4byte-asn.html

BGP - mVPN Source-AS EC Filtering

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute_bgp/configuration/15-mt/irg-15-mt-book/BGP-mVPN-Source-AS-EC-Filtering.html

BGP - Subcodes for BGP Cease Notification

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute_bgp/configuration/15-mt/irg-15-mt-book/BGP-Sub-Codes-for-BGP-Cease-Notification.html

Call Home

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

<http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/csa/configuration/15-mt/csa-15-mt-book/csa-cfg-call-home.html>

Call Home V3

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

<http://www.cisco.com/c/en/us/td/docs/solutions/GGSG-Engineering/15-4-3M/config-guide/Configuration-Guide.html>

Callhome V2 enhancements

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

<http://www.cisco.com/c/en/us/td/docs/solutions/GGSG-Engineering/15-4-3M/config-guide/Configuration-Guide.html>

Cisco 5921 Embedded Services Router (ESR) support for Virtualization Support with Smart Licensing

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

<http://www.cisco.com/c/en/us/td/docs/solutions/GGSG-Engineering/15-5-1T/15-5-1T.html>

Cisco Smart License Client

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

<http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/csa/configuration/15-mt/csa-15-mt-book/csa-smart-license.html>

Clear Crypto Session (IKEv2/IPsec) via RADIUS Attribute

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_conn_ike2vpn/configuration/15-mt/sec-flex-vpn-15-mt-book/sec-cfg-flex-serv.html

NBAR Coarse-Grain Classification

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/qos_nbar/configuration/15-mt/qos-nbar-15-mt-book/nbar-coarse-grained.html

CUBE (ENT) Dial-Peer and Call Handling Enhancements

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

<http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/voice/cube/configuration/cube-book/cause-code-mapping.html>

<http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/voice/cube/configuration/cube-book/multiple-outbound-dial-peer.html>

<http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/voice/cube/configuration/cube-book/voi-cub-sip-dyn-refer-handling-pdf.html>

Diagnostic Signatures

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

<http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ha/configuration/15-s/ha-15-s-book/ha-config-diag-sign.html>

Digital Optical Monitoring (DOM) Support on CGR1000 Series Routers

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

<http://www.cisco.com/c/en/us/support/routers/1000-series-connected-grid-routers/products-installation-guides-list.html>

DSP SNMP MIB

The DSP SNMP MIB feature provides additional DSPFARM profile objects to the CISCO-DSP-MGMT-MIB, which enables the profile objects to monitor and extract specific DSPFARM profile usage and have better control of resources. To locate and download MIBs for selected platforms, Cisco IOS XE software releases, and feature sets, use Cisco MIB Locator found at the following

URL:

<http://www.cisco.com/go/mibs>

Dynamic Mobile Network Assignment

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/mob_pmip6/configuration/15-mt/mob-pmip6-15-mt-book/imo-pmip6-mobile-router.html

ENUM enhancement - Per Kaplan Draft RFC

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

<http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/voice/cube/configuration/cube-book/voi-cube-enum-enhance-kaplan.html>

EST Client Support

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_conn_pki/configuration/15-mt/sec-pki-15-mt-book/sec-est-client-supp-pki.html

Firepower Threat Defense

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_data_utd/configuration/15-mt/sec-data-utd-15-mt-book.html

GETVPN G-IKEv2

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_conn_getvpn/configuration/15-mt/sec-get-vpn-15-mt-book/sec-get-vpn-gikev2.html

IKEv2 Remote Access Change of Authorization (CoA) - Packet of Disconnect

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_conn_ike2vpn/configuration/15-mt/sec-flex-vpn-15-mt-book/sec-ikev2-flex-pod.html

IOS OSPF - OSPFv2 Autoroute Exclude

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute_ospf/configuration/15-mt/iro-15-mt-book/iro-autoroute-exclude.html

IOx on c800/c400 Series Routers

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

<http://www.cisco.com/c/en/us/td/docs/routers/access/800/software/guides/iox/lm/localmanager.html>

LISP Data Plane Security

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute_lisp/configuration/15-mt/irl-15-mt-book/irl-data-plane-sec.html

NBAR MQC Support for Pre-Resolved and Unknown Applications - For ISR-G2

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/qos_nbar/configuration/15-mt/qos-nbar-15-mt-book/nbar-mqc.html

Network Delay for Long Lived Connections, TCP Re-transmissions

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

http://www.cisco.com/en/US/docs/routers/access/ISRG2/AVC/api/guide/AVC_Metric_Definition_Guide.html

OCSP Response Stapling

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_conn_pki/configuration/15-mt/sec-pki-15-mt-book/sec-ocsp-resp-stapl.html

On-device Management for IOS Security Features

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_data_zbf/configuration/15-mt/sec-data-zbf-15-mt-book/on-device-mgmt.html

onePK 1.4 IP Tunnel Service Set

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

<https://developer.cisco.com/site/devnet/home/index.gsp>

onePK Data Path Segmentation Support for ISR-G2

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

<https://developer.cisco.com/site/devnet/home/index.gsp>

PfRv3 Zero SLA Support

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

<http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/pfrv3/configuration/15-mt/pfrv3-15-mt-book/pfrv3-0sla.html>

RFC430x IPsec Support Phase-2

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_conn_vpniips/configuration/15-mt/sec-sec-for-vpns-w-ipsec-15-mt-book/sec-rfc-430x-support.html

Smart Licensing

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

<http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/csa/configuration/15-mt/csa-15-mt-book/csa-smart-license.html>

SSL Support for HSM/ACT2

Effective with Cisco IOS Release 15.5(1)T, SSL VPN extends support for Hardware Service Module (HSM) through the SSL Support for HSM/ACT2 feature. This feature enables SSL VPN to establish SSL session with a peer when the cryptographic module is an HSM. HSM is a physical computing device that safeguards and manages digital keys for strong authentication and provides crypto processing. These devices are either

plug-in cards or external devices attached to computers or network devices. An example of HSM is e-token. The HSM performs the following functions:

- Generates the cryptographic key
- Stores and manages the cryptographic key
- Proper use of cryptographic key and sensitive data

Transport Hierarchy (TPH) MQC Support

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/qos_nbar/configuration/15-mt/qos-nbar-15-mt-book/nbar-transport-hierarchy-mqc.html

Virtual WPAN Interface

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

<http://www.cisco.com/c/en/us/support/routers/1000-series-connected-grid-routers/products-installation-guides-list.html>

VM Support including Flex Licensing on 5921 with x86 Architectures

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

<http://www.cisco.com/c/en/us/td/docs/solutions/GGSG-Engineering/15-2-4-GC3/15-2-4GC3.html>

VRF Awareness on PMIPv6 MAG

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/mob_pmip6/configuration/15-mt/mob-pmip6-15-mt-book/imo-pmip6-mag-support.html

Web-Based Custom Protocols Scalability

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/qos_nbar/configuration/15-mt/qos-nbar-15-mt-book/nbar-web-cust-prot.html

Whitelist Download from Tower

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_data_cws/configuration/15-mt/sec-data-cws-15-mt-book/cws-whitelist-towr-teltry.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 15.5M&T:

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/c/en/us/products/ios-nx-os-software/ios-software-releases-listing.html>

Logging into the Embedded AP and Etherswitch Modules

Starting from Cisco IOS Release 15.5(03)M06, you must configure the **transport input all** command under line configuration mode to log in to the embedded AP and Etherswitch modules.

