Features and Important Notes for Cisco IOS Release 15.5(2)T

This document lists the new features and important notes in Cisco IOS Release 15.5(2)T:

- New and Changed Information, on page 1
- MIBs, on page 7
- 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(2)T:

New Hardware Features Supported in Cisco IOS Release 15.5(2)T

This section describes new and changed features in Cisco IOS Release 15.5(2)T. Some features may be new to Cisco IOS Release 15.5(2)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(2)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 5900 Series Embedded Services Routers

Release Notes for Cisco IOS Release 15.5(2)T on the 5900 Series Embedded Services Routers:

http://www.cisco.com/c/en/us/td/docs/solutions/GGSG-Engineering/15-5-2T/15-5-2T.html

New Software Features Supported in Cisco IOS Release 15.5(2)T

This section describes new and changed features in Cisco IOS Release 15.5(2)T. Some features may be new to Cisco IOS Release 15.5(2)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(2)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.

Adaptive QoS Manageability

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/qos_plcshp/configuration/15-mt/qos-plcshp-15-mt-book/qos-plcshp-adaptive-qos-dmvpn.html

AVC in L2 Transparent Mode

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

http://www.cisco.com/c/en/us/td/docs/ios/solutions_docs/avc/guide/avc-user-guide.html

BGP AS-Override Split-Horizon

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-bgp-as-override-split-horizon.html

Configurable Export Interval in EZPM

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

http://www.cisco.com/c/en/us/td/docs/ios/solutions_docs/avc/guide/avc-user-guide.html

Configuring Multiple Policies on an Interface

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

http://www.cisco.com/c/en/us/td/docs/ios/solutions_docs/avc/guide/avc-user-guide.html

CPA Support in CUBE

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-cpa.html

DSCP-Based Layer 3 Custom Applications

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-dscp-app.html

Dynamic Extracted Fields

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

http://www.cisco.com/c/en/us/td/docs/ios/solutions_docs/avc/guide/avc-user-guide.html

EIGRP OTP Support to Propagate SGT

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute_eigrp/configuration/15-mt/ire-15-mt-book/ire-eigrp-over-the-top.html

Enabling Absolute Timestamp First and Last Fields

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

Enhanced ART Metrics for Concurrent Connections

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

http://www.cisco.com/c/en/us/td/docs/ios/solutions_docs/avc/guide/avc-user-guide.html

Export Absolute Timestamp

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

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

Fine-Grain NBAR for Selective Applications

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-fine-selapp.html

FlexVPN-IKEv2 CoA for QoS and ACL

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-coa.html

FlexVPN RA-Aggregate Auth support for AnyConnect

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-aggr.html

High Availability Support for REFER Call Flows Upon SSO

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-stateful-switchover.html

High Availability for Xcoded Calls (Inbox and Box-to-Box)

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-dsp.html

High Availability for Xcoded Calls With DTMF and VCC

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-dsp.html

Identify and Clear (Terminate) FPI Hung Sessions to Prevent Reboot

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/voice/vcr1/vcr1-cr-book/vcr-c5.html

IKE Fragmentation Adhering to RFC

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-ikev2-frag.html

ISR-G2 EVC Integrations

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/cether/configuration/15-mt/ce-15-mt-book/evc-int-double-l3-vlan.html

http://www.cisco.com/c/en/us/td/docs/routers/access/1900/software/configuration/guide/Software_Configuration.html

IOS IPS Auto Update Functionality

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_data_ios_ips/configuration/15-mt/sec-data-ios-ips-15-mt-book/ips-auto-update.html

IPV6 MLD Snooping Feature on ISR Switch Ports

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipmulti_lsm/configuration/15-mt/imc-lsm-15-mt-book/ipv6_mld_snooping.html

ISIS IPv6 Multiprocess Support

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute_isis/configuration/15-mt/irs-15-mt-book/irs-ipv6-multi-process-support.html

Kaplan Draft ENUM Source-URI Enhancement

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

Mapping of Address and Port Using Translation

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipaddr_nat/configuration/15-mt/nat-15-mt-book/
iadnat-mapt.html
http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipaddr_nat/configuration/15-mt/nat-15-mt-book/iadnat-mapt.html

Modification of X-Cisco-Recording-Participant Header Using SIP Profiles

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-sip-param-mod.html

NBAR Custom Applications Based on DNS Name

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-custapp-dns.html

NBAR Customization Assistance Based on SSL or HTTP

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-cust-sslhttp.html

Observation Point

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

http://www.cisco.com/c/en/us/td/docs/ios/solutions_docs/avc/guide/avc-user-guide.html

OSPFv3 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-v3-autoroute-exclude.html

OSPFv2/v3 RFC5243 Database Exchange Summary List Optimization

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute_ospf/command/iro-cr-book/ospf-a1.html

PFA Integration with Adaptive QoS

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/qos_plcshp/configuration/15-mt/qos-plcshp-15-mt-book/qos-plcshp-adaptive-qos-dmvpn.html

PKI Credentials Expiry Alerts

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-pki-alerts.html

PKI MIB

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

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_conn_pki/configuration/15-mt/sec-pki-15-mt-book/sec-cfg-auth-rev-cert.html

PfRv3 Serviceability-Show Last Five Alerts

The show output for the show domain default vrf vrf-name master traffic-classes command is modified to provide history information of the last five route change events.

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/pfr/command/pfr-cr-book.html

PfRv3 Support for Transit Hub

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-transit-site.html

PfRv3 Transit Site 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-transit-site.html

PMIPv6 LMA

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/mob_pmipv6/configuration/15-mt/mob-pmipv6-15-mt-book/imo-pmipv6-lma-support.html

QoS on EVC and QinQ Marking Support

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

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/qos_mqc/configuration/15-mt/qos-mqc-15-mt-book/qos-evc.html

QoS: Spoke-to-Spoke per Tunnel QoS for DMVPN

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_conn_dmvpn/configuration/15-mt/sec-conn-dmvpn-15-mt-book/sec-conn-dmvpn-per-tunnel-qos.html

Sequence/ Sort dial Peers

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/voice/vcr4/vcr4-cr-book/vcr-s7.html

SIP Profile to Provide Tag, Sequence Number, and Modification of Unsupported SIP Header

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-sip-param-mod.html

SSH Algorithms for Common Criteria Certification

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_usr_ssh/configuration/15-mt/sec-usr-ssh-15-mt-book/sec-secure-shell-algorithm-ccc.html

SSL VPN MIB

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_conn_sslvpn/configuration/15-mt/sec-conn-sslvpn-15-mt-book/sec-conn-sslvpn-ssl-vpn.html

TrustSec SGT Caching

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_usr_cts/configuration/15-mt/sec-usr-cts-15-mt-book/cts-sgt-cache.html

TrustSec SGT Caching Support 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/sec_usr_cts/configuration/15-mt/sec-usr-cts-15-mt-book/cts-sgt-cache.html

X.509v3 Certificates for SSH Authentication

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_usr_ssh/configuration/15-mt/sec-usr-ssh-15-mt-book/sec-secure-shell-auth-digi-certificate.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.