



Features and Important Notes for Cisco IOS Release 15.6(1)T

These release notes describe the following topics:

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- [MIBs, on page 4](#)
- [Important Notes, on page 4](#)

New and Changed Information

This section lists the new hardware and software features supported by Cisco IOS Release 15.6(1)T and contains the following subsections:

New Hardware Features Supported in Cisco IOS Release 15.6(1)T

This section describes new and changed features in Cisco IOS Release 15.6(1)T. Some features may be new to Cisco IOS Release 15.6(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 15.6(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.

New Software Features Supported in Cisco IOS Release 15.6(1)T

This section describes new and changed features in Cisco IOS Release 15.6(1)T. Some features may be new to Cisco IOS Release 15.6(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 15.6(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.

Additional features for multiple-m-line support on 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-sip-param-mod.html>

Autonomic Networking Infrastructure (Infrastructure)

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

http://www.cisco.com/en/US/docs/ios-xml/ios/auto_net/configuration/15-mt/an-auto-net-15-mt-book.html

Cisco IWAN with Akamai Transport

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

http://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Intelligent_WAN/release/notes/iwanrnapic.html

Dual-Factor Authentication support with 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_ike2vpn/configuration/15-mt/sec-flex-vpn-15-mt-book/sec-cfg-flex-aggr.html

EIGRPv6 Route-map support for Distribute-list

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-rtmap-dl.html

IKEv2 Cluster Reconnect

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-clb-supp.html

IOS ZBFW Support for Default Zone

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/sec-zone-pol-fw.html

Support for ATA190 on CME/SRST

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

http://www.cisco.com/c/en/us/td/docs/voice_ip_comm/cucme/feature/phone_feature/phone_feature_support_guide.html

MAP-E

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-map-e.html

Mixed Mode for IPSec VTI

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-ipsec-virt-tunn.html

PMIPv6 Mutipath Management

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/mob_pnipv6/configuration/15-mt/mob-pnipv6-15-mt-book/imo-pnipv6-multipath-support.html

SGT Based PBR

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute_pi/configuration/15-mt/iri-15-mt-book/iri-sgt-based-pbr.html

SGT Based QoS

The SGT Based QoS feature supports classification of packets based on Security Group Tag (SGT) for grouping the traffic into user groups or device groups to match the defined QoS policies. The SGT Based QoS feature supports the following match criteria (subcommands) within the **match** command:

- **sgt source**—match based on SGT source address
- **sgt destination**—match based on SGT destination address
- **access-group**—match based on the access group value
- **ip**—match based on IP specific values
- **dscp**—match based on differentiated services code point (DSCP) in IPv4 and IPv6 packets
- **discard-class**—match based on the discard class value
- **qos-group**—match based on the QoS group value

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute_pi/configuration/15-mt/iri-15-mt-book/iri-sgt-based-qos.html

SIP-REC standard based call/media recording support on 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-sip-recording.html>

Spoke-to-Spoke NHRP summary maps

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-summm-maps.html

Support for 7811

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

http://www.cisco.com/c/en/us/td/docs/voice_ip_comm/cucme/feature/phone_feature/phone_feature_support_guide.html

Support for 7821, 7841 and 7861

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

http://www.cisco.com/c/en/us/td/docs/voice_ip_comm/cucme/feature/phone_feature/phone_feature_support_guide.html

Support for 8841,8851 and 8861 Phones

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

http://www.cisco.com/c/en/us/td/docs/voice_ip_comm/cucme/feature/phone_feature/phone_feature_support_guide.html

Support for Device Association and Port Mapping in CWMP

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

<http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/bbds/configuration/15-mt/bba-15-mt-book/bba-tr-069-agent.html>

Survivability TCL concurrent operation with Cisco UC GW Services API based Media Forking

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-uc-gateway-services.html>

TLS 1.2 support, 256_GCM Cipher suits support and HTTPS for Cisco UC GW Services API interface support on 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-sip-tls.html>

Variable length Checkpointing Enhancements for enhanced HA 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-high-availability.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 15.6M&T:

Field Notices and Bulletins

- Field Notices—We recommend 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 15.6(03)M03, you have to configure 'transport input all' under the 'line config' to log in to the embedded AP and Etherswitch modules.

