



Cross Platform Release Notes for Cisco IOS Release 15.6M&T

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CHAPTER 1

Cross Platform Release Notes for Cisco IOS Release 15.6M&T

These release notes support Cisco IOS Release 15.6M&T up to and including Cisco IOS Release 15.6(2)T3. The release notes are updated with each 15.6M&T release to describe new features and related documents.

Cisco IOS Release 15.6M&T provides the latest innovations for the world's most demanding networks and is designed to provide a unified network architecture that is stable, reliable, and secure. New features are fully integrated with extensive capabilities already available in Cisco IOS software to provide solutions for enterprise, service provider, and smart grid. Browse all support information for [Cisco IOS Release 15.6M&T](#).

- [Cross-Platform System Requirements, on page 1](#)
- [MIBs, on page 3](#)
- [Field Notices and Software-Related Tools and Information, on page 3](#)
- [Troubleshooting, on page 3](#)

Cross-Platform System Requirements

This section describes the system requirements for Cisco IOS Release 15.6M&T and includes the following sections:

Supported Hardware Platforms

Cisco IOS Release 15.6M&T supports platforms within the following Cisco series:

- Cisco 800 Series Industrial Integrated Services Routers
- Cisco 800 and 800M Series Integrated Services Routers
- Cisco 1000 Series Connected Grid Routers (CGR 1000)
- Cisco 2000 Series Connected Grid Router (CGR 2000)
- Cisco 1900 Series Integrated Services Routers
- Cisco 2900 Series Integrated Services Routers
- Cisco 3900 Series Integrated Services Routers
- Cisco Analog Voice Gateways (VG202XM and VG204XM)
- Cisco High Density Analog Voice Gateways (VG350)

For more information about the platforms supported in Cisco IOS Release 15.6M&T, see the [“Platform-Specific Information” section on page 9](#).

Determining Your Software Version

To determine the version of Cisco IOS software that is currently running on your Cisco network device, log in to the device and enter the **show version** user EXEC command:

```
Router> show version
Cisco IOS Software, 7200 Software (C7200-ADVENTERPRISEK9-M), Version 15.6(1) T, RELEASE SOFTWARE
```

Upgrading to a New Release

For information about selecting a new Cisco IOS software release, see *How to Choose a Cisco IOS Software Release* at the following URL:

http://www.cisco.com/en/US/products/sw/iosswrel/ps1834/products_tech_note09186a00800fb9d9.shtml

For information about updating or upgrading Cisco IOS software, see *How to Update/Upgrade Cisco IOS Software* at the following URL:

http://www.cisco.com/en/US/prod/iosswrel/networking_solutions_products_genericcontent0900aecd806ea5be.html

Platform-specific documents may also provide information about upgrading to a new software release:

- Cisco 800 Series Industrial Integrated Services Routers:
<http://www-author.cisco.com/c/en/us/support/routers/800-series-industrial-routers/products-installation-guides-list.html>
- Cisco 800 series routers:
http://www.cisco.com/en/US/products/hw/routers/ps380/prod_installation_guides_list.html
- Cisco IR 800 series routers: <https://www.cisco.com/c/en/us/support/routers/800-series-industrial-routers/tsd-products-support-series-home.html>
- Cisco 1000 CGR series routers
<http://www.cisco.com/c/en/us/support/routers/1000-series-connected-grid-routers/products-installation-and-configuration-guides-list.html>
- Cisco 2000 CGR series routers:
http://www.cisco.com/en/US/products/ps10977/prod_installation_guides_list.html
- Cisco 1900 series routers:
http://www.cisco.com/en/US/docs/routers/access/1900/hardware/installation/guide/1900_HIG.html
- Cisco 2900 and 3900 series routers:
http://www.cisco.com/en/US/docs/routers/access/2900/hardware/installation/guide/Hardware_Installation_Guide.html
- Cisco 5900 Embedded Services Routers:
<http://www.cisco.com/c/en/us/support/routers/5900-series-embedded-services-routers/products-installation-guides-list.html>
- Cisco VG202XM and Cisco VG204XM Voice Gateways:
http://www.cisco.com/en/US/docs/routers/access/vg202_vg204/hardware/vg2_vg4hw.html
- Cisco VG350 Voice Gateway:
http://www.cisco.com/en/US/docs/routers/access/vg350/hardware/installation/guide/vg350_hig.html

For instructions on ordering a Cisco IOS upgrade, see the document at the following location:

http://www.cisco.com/warp/public/cc/pd/iosw/prodlit/957_pp.html.

To choose a new Cisco IOS software release by comparing feature support or memory requirements, use Cisco Feature Navigator. Cisco Feature Navigator is a web-based tool that enables you to determine which Cisco IOS software images support a specific set of features and which features are supported in a specific Cisco IOS image. You can search by feature or by feature set (software image). Under the release section, you can compare Cisco IOS software releases side by side to display both the features unique to each software release and the features that the releases have in common.

To choose a new Cisco IOS software release based on information about defects that affect that software, use Bug Toolkit at the following URL: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl.

MIBs

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

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

If Cisco MIB Locator does not support the MIB information that you need, you can also 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 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>

Field Notices and Software-Related Tools and Information

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.

Visit the Download Software page on Cisco.com to subscribe to Cisco software notifications, locate MIBs, access the Software Advisor, and find other Cisco software-related information and tools. Access the Download Software page at <http://www.cisco.com/cisco/software/navigator.html?a=a&i=rpm>.

Troubleshooting

The following documents and websites provide assistance with troubleshooting your Cisco hardware and software:

- *Troubleshoot and Alerts* Product or Technology Selection Page

<http://www.cisco.com/cisco/web/psa/troubleshoot.html?mode=prod&level0=268437899>

- *Cisco 800 Series Routers Troubleshooting Guides*

http://www.cisco.com/en/US/products/hw/routers/ps380/prod_troubleshooting_guides_list.html

- Cisco 1240 and 1120 Connected Grid Router Installation Guides

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

- *Cisco 1600 Series Routers Hardware Troubleshooting Index Page*

http://www.cisco.com/en/US/products/hw/routers/ps214/products_tech_note09186a008012fb88.shtml

- *Troubleshooting Cisco 3900 Series, 2900 Series, and 1900 Series ISRs*

<http://www.cisco.com/en/US/docs/routers/access/2900/hardware/installation/guide/Trouble.html>

- *Cisco Unified Communications 500 Series Install and Upgrade Tech Notes*

http://www.cisco.com/en/US/products/ps7293/tsd_products_support_install_and_upgrade_technotes_list.html

Cisco Error Message Decoder

<http://www.cisco.com/cgi-bin/Support/Errordecoder/index.cgi>

- Cisco Support Community

<https://supportforums.cisco.com/index.jspa>



CHAPTER 2

Feature Support

Cisco IOS software is packaged in feature sets that consist of software images that support specific platforms. The feature sets available for a specific platform depend on which Cisco IOS software images are included in a release. Each feature set contains specific Cisco IOS features.



Caution

Cisco IOS images with strong encryption (including, but not limited to 168-bit [3DES] data encryption feature sets) are subject to U.S. government export controls and have limited distribution. Strong encryption images to be installed outside the United States are likely to require an export license. Customer orders may be denied or subject to delay because of U.S. government regulations. When applicable, the purchaser/user must obtain local import and use authorizations for all encryption strengths. Please contact your sales representative or distributor for more information, or send an e-mail to export@cisco.com.

- [Cisco Feature Navigator, on page 5](#)
- [Determining the Software Images \(Feature Sets\) That Support a Specific Feature, on page 6](#)
- [Determining the Features Supported in a Specific Software Image \(Feature Set\), on page 7](#)
- [Memory Recommendations, on page 7](#)
- [Platform-Specific Information, on page 8](#)

Cisco Feature Navigator

Feature-to-image mapping is available through Cisco Feature Navigator. Cisco Feature Navigator is a web-based tool that enables you to determine which Cisco IOS software images support a specific set of features and which features are supported in a specific Cisco IOS image. You can search by feature or by feature set (software image). You can compare Cisco IOS software releases side-by-side to display both the features unique to each software release and the features that the releases have in common.

Cisco Feature Navigator is updated regularly when major Cisco IOS software releases and technology releases occur. For the most current information, go to the Cisco Feature Navigator home page at the following URL:

www.cisco.com/go/cfn

For help with Cisco Feature Navigator, see the help information at the following URL:

http://www.cisco.com/web/applicat/CFNTOOLS/Help_Docs/help/cfn_support.html

Determining the Software Images (Feature Sets) That Support a Specific Feature

To determine which software images (feature sets) in a Cisco IOS release support a specific feature, go to the [Cisco Feature Navigator home page](#) and perform the following steps.

SUMMARY STEPS

1. From the Cisco Feature Navigator home page, click **Research Features**.
2. Select your software type or leave the field as “All”.
3. To find a feature, you can search by either Feature or Technology (select the appropriate button). If you select Search by Feature, you can further filter your search by using the Filter By text box.
4. Choose a feature from the Available Features text box, and click the **Add** button to add the feature to the Selected Features text box.
5. Click **Continue** when you are finished choosing features.
6. In the Release/Platform Tree area, select either your release (from the Train-Release list) or your platform (from the Platform list).
7. The “Search Result” table will list all the software images (feature sets) that support the features that you chose.

DETAILED STEPS

-
- Step 1** From the Cisco Feature Navigator home page, click **Research Features**.
- Step 2** Select your software type or leave the field as “All”.
- Step 3** To find a feature, you can search by either Feature or Technology (select the appropriate button). If you select Search by Feature, you can further filter your search by using the Filter By text box.
- Step 4** Choose a feature from the Available Features text box, and click the **Add** button to add the feature to the Selected Features text box.
- Note** To learn more about a feature in the list, click the **View Desc** button in the Available Features text box. Repeat this step to add features. A maximum of 20 features can be chosen for a single search.
- Step 5** Click **Continue** when you are finished choosing features.
- Step 6** In the Release/Platform Tree area, select either your release (from the Train-Release list) or your platform (from the Platform list).
- Step 7** The “Search Result” table will list all the software images (feature sets) that support the features that you chose.
- Note** You can download your results into an Excel spreadsheet by clicking on the **Download Excel** button.
-

Determining the Features Supported in a Specific Software Image (Feature Set)

To determine which features are supported in a specific software image (feature set), go to the [Cisco Feature Navigator home page](#) and perform the following steps.

SUMMARY STEPS

1. From the Cisco Feature Navigator home page, click **Research Software**.
2. Select your software type from the drop-down list and chose the **Release** button in the “Search By” area.
3. From the Major Release drop-down list, chose the appropriate major release.
4. From the Release drop-down list, choose the appropriate maintenance release.
5. From the Platform drop-down list, choose the appropriate hardware platform.
6. From the Feature Set drop-down list, choose the appropriate feature set. The Image Details area will provide details on the specific image. The Available Features area will list all the features that are supported by the feature set (software image) that you chose.

DETAILED STEPS

-
- Step 1** From the Cisco Feature Navigator home page, click **Research Software**.
- Step 2** Select your software type from the drop-down list and chose the **Release** button in the “Search By” area.
- Step 3** From the Major Release drop-down list, chose the appropriate major release.
- Step 4** From the Release drop-down list, choose the appropriate maintenance release.
- Step 5** From the Platform drop-down list, choose the appropriate hardware platform.
- Step 6** From the Feature Set drop-down list, choose the appropriate feature set. The Image Details area will provide details on the specific image. The Available Features area will list all the features that are supported by the feature set (software image) that you chose.

Note To learn more about a feature in the list, click the **View Desc** button in the Available Features text box.

Memory Recommendations

To determine memory recommendations for software images (feature sets) in your Cisco IOS release, go to the [Cisco Feature Navigator home page](#) and perform the following steps.

SUMMARY STEPS

1. From the Cisco Feature Navigator home page, click **Research Software**.
2. Select your software type from the drop-down list and choose the **Release** button in the “Search By” area.
3. From the Major Release drop-down list, choose the appropriate major release.
4. From the Release drop-down list, choose the appropriate maintenance release.
5. From the Platform drop-down list, choose the appropriate hardware platform.

6. From the Feature Set drop-down list, choose the appropriate feature set.
7. The Image Details area will provide details on the specific image including the DRAM and flash memory recommendations for each image. The Available Features area will list all the features that are supported by the feature set (software image) that you chose.

DETAILED STEPS

-
- Step 1** From the Cisco Feature Navigator home page, click **Research Software**.
 - Step 2** Select your software type from the drop-down list and choose the **Release** button in the “Search By” area.
 - Step 3** From the Major Release drop-down list, choose the appropriate major release.
 - Step 4** From the Release drop-down list, choose the appropriate maintenance release.
 - Step 5** From the Platform drop-down list, choose the appropriate hardware platform.
 - Step 6** From the Feature Set drop-down list, choose the appropriate feature set.
 - Step 7** The Image Details area will provide details on the specific image including the DRAM and flash memory recommendations for each image. The Available Features area will list all the features that are supported by the feature set (software image) that you chose.
-

Platform-Specific Information

Cisco IOS Release 15.6M&T supports the following Cisco series:

Cisco 800 Series Industrial Integrated Services Routers

Cisco IOS Release 15.6M&T supports Cisco 829 and 809 Series Industrial Integrated Services Routers (IR829 and IR809):

- Cisco IR 809G with LTE-GA-K9
- Cisco IR 809G with LTE-NA-K9
- Cisco IR 809G with LTE-VZ-K9
- Cisco IR 829GW with LTE-GA-EK9
- Cisco IR 829GW with LTE-GA-ZK9
- Cisco IR 829GW with LTE-NA-AK9
- Cisco IR 829GW with LTE-VZ-AK9

For detailed information about the Cisco 800 series Industrial Integrated Services Routers, see the documents at the following location:

<http://www.cisco.com/c/en/us/products/routers/800-series-industrial-routers/index.html>

Cisco 800 Series Routers

Cisco IOS Release 15.6M&T supports the following Cisco 800 series routers:

- Cisco 812G, Cisco 812G-CIFI
- Cisco 819G

- Cisco 819H, Cisco 819HG, Cisco 819HGW, Cisco 819HW
- Cisco 841M-4X/K9
- Cisco 841M-8X/K9
- Cisco 861
- Cisco 866VAE
- Cisco 867VAE
- Cisco 881, Cisco 881G, Cisco 881GW, Cisco 881SRST, Cisco 881W, Cisco 881WD, Cisco 881-CUBE
- Cisco 886VA, Cisco 886VAG, Cisco 886VA-W, Cisco 886-CUBE
- Cisco 887VA, Cisco 887VAG, Cisco 887VAGW, Cisco 887VAMG, Cisco 887VA-M, Cisco 887VA-W, Cisco 887VA-WD, Cisco 887VAM-W, Cisco 887-CUBE
- Cisco 888, Cisco 888E, Cisco 888EA, Cisco 888EG, Cisco 888SRST, Cisco 888-CUBE (Cisco 888EA is supported in Cisco IOS Release 15.2(2)T and later releases)
- Cisco 891
- Cisco 892, Cisco 892FSP, Cisco 892F-CUBE
- Cisco 897VAW
- Cisco 898EA

For detailed information about the Cisco 800 series of routers, see the documents at the following location:

<http://www.cisco.com/en/US/products/hw/routers/ps380/index.html>

Cisco 1000 Series Connected Grid Routers

Cisco IOS Release 15.6M&T supports Cisco 1240 and 1120 Connected Grid Routers (CGR1240 and CGR1120):

- Cisco CGR 1120 with CGM-4G-LTE-GA
- Cisco CGR 1120 with CGM-4G-LTE-MNA
- Cisco CGR 1240 with CGM-4G-LTE-GA
- Cisco CGR 1240 with CGM-4G-LTE-MNA

For detailed information about the Cisco CGR 1000 series routers, see the documents at the following location:

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

Cisco 2000 Series Connected Grid Routers

Cisco IOS Release 15.6M&T supports the Cisco Connected Grid Router 2010 (CGR 2010).

For detailed information about Cisco Connected Grid Routers, see the documents at the following location:

<http://www.cisco.com/c/en/us/products/routers/2000-series-connected-grid-routers/index.html>

Cisco 1900 Series Integrated Services Routers

Cisco IOS Release 15.6M&T supports the following Cisco 1900 series integrated services routers:

- Cisco 1905
- Cisco 1906C
- Cisco 1921
- Cisco 1941
- Cisco 1941W

For detailed information about the Cisco 1900 series integrated service routers, see the documents at the following location:

<http://www.cisco.com/c/en/us/products/routers/1900-series-integrated-services-routers-isr/index.html>

Cisco 2900 Series Integrated Services Routers

Cisco IOS Release 15.6M&T supports the following Cisco 2900 series integrated services routers:

- Cisco 2901
- Cisco 2911
- Cisco 2921
- Cisco 2951

For detailed information about the Cisco 2900 series of routers, see the documents at the following location:

<http://www.cisco.com/en/US/products/ps10537/index.html>

Cisco 3900 Series Integrated Services Routers

Cisco IOS Release 15.5M&T supports the following Cisco 3900 series integrated services routers:

- Cisco 3925
- Cisco 3925E
- Cisco 3945
- Cisco 3945E

For detailed information about the Cisco 3900 series of routers, see the documents at the following location:

<http://www.cisco.com/en/US/products/ps10536/index.html>

Cisco 5900 Series Embedded Services Routers

Cisco IOS Release 15.6M&T supports the following Cisco 5900 series Embedded Services Routers:

- Cisco 5915
- Cisco 5921
- Cisco 5940

For detailed information about the Cisco 5900 series of routers, see the documents at the following location:

<http://www.cisco.com/c/en/us/products/routers/5900-series-embedded-services-routers/index.html>

Cisco Analog Voice Gateways

Cisco IOS Release 15.6M&T supports the following analog voice gateways:

- Cisco VG202XM
- Cisco VG204XM

For detailed information about Cisco analog voice gateways, see the documents at the following location:

<http://www.cisco.com/en/US/products/hw/gatecont/ps2250/index.html>

Cisco High Density Analog Voice Gateways

Cisco IOS Release 15.6M&T supports the Cisco VG350 High Density Voice over IP Analog Gateway.

For detailed information about Cisco analog voice gateways, see the documents at the following location:

<http://www.cisco.com/en/US/products/hw/gatecont/ps2250/index.html>



PART I

New Features and Important Notes

- [Features and Important Notes for Cisco IOS Release 15.6\(3\)M, on page 15](#)
- [Features and Important Notes for Cisco IOS Release 15.6\(2\)T, on page 19](#)
- [Features and Important Notes for Cisco IOS Release 15.6\(1\)T, on page 23](#)



CHAPTER 3

Features and Important Notes for Cisco IOS Release 15.6(3)M

These release notes describe the following topics:

- [New and Changed Information, on page 15](#)
- [MIBs, on page 17](#)
- [Important Notes, on page 18](#)

New and Changed Information

This section lists the new hardware and software features supported by Cisco IOS Release 15.6(3)M and contains the following subsections:

New Hardware Features Supported in Cisco IOS Release 15.6(3)M

This section describes new and changed hardware features in Cisco IOS Release 15.6(3)M. Some features may be new to Cisco IOS Release 15.6(3)M 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(3)M. 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.

Re-spin of C86xVAEW to create new Non-WiFi SKUs - C86x7VAE

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>

New Software Features Supported in Cisco IOS Release 15.6(3)M

This section describes new and changed features in Cisco IOS Release 15.6(3)M. Some features may be new to Cisco IOS Release 15.6(3)M 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(3)M. 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.

Consumption of Forked 18x Responses with SDP for 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-forked-18x-responses.html>

CWA URL Redirect Support on C891FW

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_usr_aaa/configuration/15-mt/sec-usr-aaa-15-mt-book/sec-cwa-url-redirect.html

Digital Alarm Output Support

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-and-configuration-guides-list.html>

iOAMv6

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipv6_nman/configuration/15-mt/ip6n-15-mt-book/ip6-ioamv6.html

LoRa Interface Manager

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

<http://www.cisco.com/c/en/us/td/docs/routers/access/800/829/15-6-3M-Release-Notes.html>

Mesh Security Enhancement

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-and-configuration-guides-list.html>

Multitenancy Call Routing and Scaling Enhancements for 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-multi-vrf.html>

NAT Box-to-Box HA Support

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-b2b-ha.html

Night Service support for SIP Phones

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

http://www.cisco.com/c/en/us/td/docs/voice_ip_comm/cucme/admin/configuration/guide/cmeadm/cmecover.html

PfRv3 Probe Reduction

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

<http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/pfirv3/configuration/15-mt/pfirv3-15-mt-book/pfi-probe-reduction.html>

Re-spin of C86xVAEW to create new Non-WiFi SKUs - C86x7VAE

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

http://www.cisco.com/c/en/us/td/docs/routers/access/800/software/configuration/guide/SCG800Guide/SCG800_Guide_BookMap_chapter_01.html

Support copper SFP GLC-T

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

<http://www.cisco.com/c/en/us/td/docs/routers/access/800/829/software/configuration/guide/IR800config.html>

Support CPU Module on CGR1000

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-and-configuration-guides-list.html>

Support for Auto Registration of SIP Phones

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

http://www.cisco.com/c/en/us/td/docs/voice_ip_comm/cucme/admin/configuration/guide/cmeadm/cmebasic.html

Support for BACD with Voice Hunt Group

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

http://www.cisco.com/c/en/us/td/docs/voice_ip_comm/cucme/bacd/configuration/guide/cme40tcl/40bacd.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>

ADSL/VDSL Embedded Firmware and SDK Change with Cisco IOS Release 15.6(3)M

The ISR800 and ISR G2 which run the IOS release 15M/T is integrated with the DSL Firmware 35J for DSL Annex(es) A/M and 35J for Annex B/J. With Cisco IOS Release 15.6(3)M, the plan is to change the embedded BRCM Firmware in IOS to 39T for Annex A/M and 38r1 for Annex B/J. This change will affect only the 880/890 and ISR G2+EHWIC SKUs which carry the BRCM6368 chipset. There is also a plan to upgrade the current SDK version, which is used to compile the Firmware. The SDK version for bootloader and embedded LINUX must be 4.14L.04A. If you plan to migrate to Cisco IOS Release 15.6(3)M or later releases, you must use the embedded 39T FW version or later, compiled with the newer SDK. You can continue to use the available Firmware versions if you are on Cisco IOS Release 15.6(2)T or earlier releases.

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.



CHAPTER 4

Features and Important Notes for Cisco IOS Release 15.6(2)T

These release notes describe the following topics:

- [New and Changed Information, on page 19](#)
- [MIBs, on page 21](#)
- [Important Notes, on page 21](#)

New and Changed Information

This section lists the new hardware and software features supported by Cisco IOS Release 15.6(2)T and contains the following subsections:

New Hardware Features Supported in Cisco IOS Release 15.6(2)T

This section describes new and changed features in Cisco IOS Release 15.6(2)T. Some features may be new to Cisco IOS Release 15.6(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 15.6(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 819 Integrated Services Routers

For detailed information, see the following document:

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

Cisco IR800 Industrial Integrated Services Routers

For detailed information, see the following documents:

<http://www.cisco.com/c/en/us/td/docs/routers/access/800/809/hardware/install/guide/809hwinst.html>

<http://www.cisco.com/c/en/us/td/docs/routers/access/800/829/hardware/install/guide/829hwinst.html>

Cisco 1000 Series Connected Grid Routers

For detailed information, see the following document:

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

For information about new features, limitations, troubleshooting, recommended configurations, caveats, and how to obtain support and documentation for Cisco IR800 Industrial Integrated Services Routers and CGR1000 Routers, see [Cisco IOS Release 15.6\(2\)T - Release Notes for Cisco IR800 Industrial Integrated Services Routers and Cisco 1000 Series Connected Grid Routers](#).

New Software Features Supported in Cisco IOS Release 15.6(2)T

This section describes new and changed features in Cisco IOS Release 15.6(2)T. Some features may be new to Cisco IOS Release 15.6(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 15.6(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.

CVP TCL HA 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-cvptcl-ha.html>

LISP Generalized SMR

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-lisp-gen-smr.html

LISP Reliable Registration

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-lisp-rel-reg.html

Multiple SIP-UA Support

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-multi-tenants.html>

Multi-VRF Support for 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-multi-vrf.html>

Nanocube 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_nano/configuration/15-mt/nanocube-config-15-mt-book/survivability_enhancements.html

Overlapping Prefix

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-ovrlp-prefix.html

Session-ID 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-session-id.html>

TTL Propagate Disable and Site-ID Qualification

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-ttl-prpgt-disable-site-id-qual.html

V.150.1 MER dynamic PT

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

http://www.cisco.com/c/en/us/td/docs/ios/12_4t/12_4t4/mer_cg_15_1_4M.html

WebEx/Huron Requirements for Video SDP

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-audio-forced.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:

VXML Application Crash

Cisco IOS Release 15.6(2)T is not recommended for Voice Extensible Markup Language (VXML) application as the router crashes when Cisco Integrated Services Routers Generation 2 acts as VXML Gateway.

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.



CHAPTER 5

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

These release notes describe the following topics:

- [New and Changed Information, on page 23](#)
- [MIBs, on page 26](#)
- [Important Notes, on page 26](#)

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_vprips/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

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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:

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- 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.



PART II

Caveats

- [Bugs for Cisco IOS Release 15.6\(3\)M, on page 31](#)
- [Bugs for Cisco IOS Release 15.6\(2\)T, on page 87](#)
- [Bugs for Cisco IOS Release 15.6\(1\)T, on page 105](#)



CHAPTER 6

Bugs for Cisco IOS Release 15.6(3)M

- [Open and Resolved Bugs](#), on page 31
- [Resolved Bugs—Cisco IOS Release 15.6\(3\)M9](#), on page 33
- [Resolved Bugs—Cisco IOS Release 15.6\(3\)M8](#), on page 34
- [Resolved Bugs—Cisco IOS Release 15.6\(3\)M7](#), on page 35
- [Open Bugs—Cisco IOS Release 15.6\(3\)M7](#), on page 38
- [Resolved Bugs—Cisco IOS Release 15.6\(3\)M6a](#), on page 39
- [Resolved Bugs—Cisco IOS Release 15.6\(3\)M6](#), on page 39
- [Open Bugs—Cisco IOS Release 15.6\(3\)M6](#), on page 43
- [Resolved Bugs—Cisco IOS Release 15.6\(3\)M5](#), on page 44
- [Open Bugs—Cisco IOS Release 15.6\(3\)M5](#), on page 47
- [Resolved Bugs—Cisco IOS Release 15.6\(3\)M4](#), on page 49
- [Open Bugs—Cisco IOS Release 15.6\(3\)M4](#), on page 53
- [Resolved Bugs—Cisco IOS Release 15.6\(3\)M3a](#), on page 55
- [Resolved Bugs—Cisco IOS Release 15.6\(3\)M3](#), on page 55
- [Open Bugs—Cisco IOS Release 15.6\(3\)M3](#), on page 64
- [Resolved Bugs—Cisco IOS Release 15.6\(3\)M2](#), on page 67
- [Resolved Bugs—Cisco IOS Release 15.6\(3\)M1](#), on page 69
- [Resolved Bugs—Cisco IOS Release 15.6\(3\)M0a](#), on page 72
- [Resolved Bugs—Cisco IOS Release 15.6\(3\)M](#), on page 72

Open and Resolved Bugs

The open and resolved bugs for this release are accessible through the [Cisco Bug Search Tool](#). This web-based tool provides you with access to the Cisco bug tracking system, which maintains information about bugs and vulnerabilities in this product and other Cisco hardware and software products.

Within the Cisco Bug Search Tool, each bug is given a unique identifier (ID) with a pattern of CSCxxNNNNN, where x is any letter (a-z) and N is any number (0-9). The bug IDs are frequently referenced in Cisco documentation, such as Security Advisories, Field Notices and other Cisco support documents. Technical Assistance Center (TAC) engineers or other Cisco staff can also provide you with the ID for a specific bug.

You can save searches that you perform frequently. You can also bookmark the URL for a search and email the URL for those search results



Note If the defect that you have requested cannot be displayed, this may be due to one or more of the following reasons: the defect number does not exist, the defect does not have a customer-visible description yet, or the defect has been marked Cisco Confidential.

Using the Bug Search Tool

The Cisco Bug Search Tool enables you to filter the bugs so that you only see those in which you are interested. In addition to being able to search for a specific bug ID, or for all bugs in a product and release, you can filter the open and/or resolved bugs by one or more of the following criteria:

- Last modified date
- Status, such as fixed (resolved) or open
- Severity
- Support cases

For more information about how to use the Cisco Bug Search Tool, including how to set email alerts for bugs and to save bugs and searches, see [Bug Search Tool Help & FAQ](#).



Note You must have a Cisco.com account to log in and access the [Cisco Bug Search Tool](#). If you do not have one, you can register for an account.

To use the Cisco Bug Search Tool:

1. In your browser, navigate to the [Cisco Bug Search Tool](#).
2. If you are redirected to a Log In page, enter your registered Cisco.com username and password and then, click Log In.
3. To search for a specific bug, enter the bug ID in the Search For field and press Enter.
4. To search for bugs related to a specific software release, do the following:
 - a. In the Product field, choose Series/Model from the drop-down list and then enter the product name in the text field. If you begin to type the product name, the Cisco Bug Search Tool provides you with a drop-down list of the top ten matches. If you do not see this product listed, continue typing to narrow the search results.
 - b. In the Releases field, enter the release for which you want to see bugs.

The Cisco Bug Search Tool displays a preview of the results of your search below your search criteria. You can mouse over bugs to see more content about a specific bug.

To see more content about a specific bug, you can do the following:

- Mouse over a bug in the preview to display a pop-up with more information about that bug.
- Click on the hyperlinked bug headline to open a page with the detailed bug information.
- To restrict the results of a search, choose from one or more of the following filters:

Filter	Description
Modified Date	A predefined date range, such as last week or last six months.

Filter	Description
Status	A specific type of bug, such as open or fixed.
Severity	The bug severity level as defined by Cisco. For definitions of the bug severity levels, see Bug Search Tool Help & FAQ
Rating	The rating assigned to the bug by users of the Cisco Bug Search Tool.
Support Cases	Whether a support case has been opened or not.

Your search results update when you choose a filter.

Resolved Bugs—Cisco IOS Release 15.6(3)M9

Table 1: Resolved Bugs—Cisco IOS Release 15.6(3)M9

Caveat ID Number	Description
CSCvc84848	IBGP paths getting marked as RPKI Valid
CSCvd43539	NTP crash with empty peer list
CSCvd44902	ASR903 - NTP IPv6 under VRF over 6VPE not working
CSCvi50061	Evaluate NTP February 2018 Vulnerabilities.
CSCvj41876	Prefixes are stuck indefinitely in the BGP pending-prefixes list
CSCvp91256	BGP labels not propagated
CSCvq14883	default-information originate configuration does not advertise default route
CSCvq18307	VRF routes disappeared after reload
CSCvq61286	6800 cannot send out DBD packets after switchover with aggressive timer
CSCvq63089	cat9300 hang and generate memory error when applying "privilege interface level 15 ospfv3"
CSCvq65283	VXLAN EVPN BGP NEXTHOP not correctly changed with Route-map
CSCvr10897	Adjacency SIDs not detected in mpls traffic-eng topology (interop issue)
CSCvr27393	Crash on "BGP Router" process
CSCvu19733	Evaluation of CVE-2020-11868 for IOS

Resolved Bugs—Cisco IOS Release 15.6(3)M8

Table 2: Resolved Bugs—Cisco IOS Release 15.6(3)M8

Caveat ID Number	Description
CSCvg75572	config t-> "?" gives an unaligned output
CSCvm04126	Embedded Packet Capture exported fails when buffer is full
CSCvm54451	IPV6 prefix delegation issue in 881 router
CSCvn55798	C897VAW-E-K9 // 15.7(3)M1 // Unable to disable lldp
CSCvn63087	Observing Memory leak at Sip MPA
CSCvn98815	TCLSH: smtp_lib.tcl broken VRF support
CSCvo47866	Crash at Process = SCCP Auto Config
CSCvq23676	CGR1000 - FE LEDs and SVI incorrect behavior
CSCvq36134	Memory leak Chunk Manager/Firewall State
CSCvq66030	Cisco IOS and Cisco IOS XE Software Web UI Cross-Site Request Forgery Vulnerability
CSCvq74033	Packet drop in vdsl controller pppoe stuck in PADISNT
CSCvr23353	Unregistered supplicant can ping every re-authentication timer with mab when Spanning is disabled
CSCvr47100	Subinterface reporting more traffic than physical interface
CSCvr60790	Device Becomes Unresponsive when Running "crypto key generate rsa"
CSCvr62163	IOS Firewall crash with video call
CSCvr70878	SNMP cannot poll LLDP neighbors from the device
CSCvr81357	ISR c800 is not giving DHCP address when port authentication failover from MAB to guest-vlan
CSCvr82520	Cisco Wave 1 AP Software reloads unexpectedly when configuring a long SNMP-server community string
CSCvr82645	PoE stops working after upgrade on C881K9
CSCvs17683	IPSEC stateful redundancy - show crypto ipsec sa shows PFS (Y/N): N, while active shows PFS (Y/N): Y
CSCvf98838	CME SIP Segmentation Fault crash occurs on calls to VHG with Shared Lines

Resolved Bugs—Cisco IOS Release 15.6(3)M7

Table 3: Resolved Bugs—Cisco IOS Release 15.6(3)M7

Caveat ID Number	Description
CSCva00765	crash after no ipv4 multicast multitopology command
CSCvd19860	OSPFv3 AUTH breaks IPv6 traffic intermittently
CSCve76947	Eigrp hmac-sha-256 secret string changes when show running-config is executed
CSCve77011	SSL handshake failure when validating certification with name-constraints
CSCvg03444	Hub MC continues to send EIGRP SAF hellos after adjacency removed
CSCvg32796	External Interface on the PfR MC stuck in the shutdown state
CSCvh73576	config revert Rollback visible in console and locks up config from VTY
CSCvi48253	Y2.02K: self-signed cert expires after 31 Dec 2019, cannot be created after 1 Jan 2020
CSCvi52659	Incorrect "Hop count" observed in IPv6 EIGRP
CSCvj00317	Memory leak VOIP *MallocLite*
CSCvj28921	High CPU due to Alignment Corrections - SMEF & IWAN
CSCvj66755	CNS Exec process crash @ cns_get_config_from_server
CSCvk17998	Rekey Timer are same for both the Server and Client
CSCvk54416	Change the order of BYE and NOTIFY with 200 OK sipfrag body for successful REFER passthru scenario
CSCvk71047	Router fails to reserve necessary ports for VPN traffic (UDP 500 & 4500) for ISAKMP
CSCvm03696	ISDN PRI calls getting dropped with cause 47 because of bad interaction between CDAPI and TSP layers
CSCvm51112	"clear crypto sa vrf MyVrf" triggers crash after updating pre-shared-keys
CSCvm62554	BGP multipath feature drops a path from list after BGP update event
CSCvm64865	[EIGRP] a summary route is updated by an external route
CSCvm87386	PnP discovery is stopped with no user intervention in non-vlan 1 scenario
CSCvm92116	Bulk-sync failure due to bgp router-id interface Loopback0
CSCvm95236	BGP update not properly processed by inbound route-map
CSCvn18500	Certificate map does not work always with UPN in SAN field

Caveat ID Number	Description
CSCvn28017	ISR4331 Routers May Crash When "eigrp default-route-tag" Configured on IPv4 AF
CSCvn31630	SNMP queue full and control path stuck on VDSL controller
CSCvn32526	Crash when making voice call via sip trunk
CSCvn40357	After C897 is reloaded ,routed pseudowire is not passing traffic
CSCvn56017	Crash while processing ISIS updates when DiffServ-TE is enabled
CSCvn65176	The PC not permitted on ISE can ping once every re-authentication timer with mab authentication.
CSCvn66220	Layer 2 Neighbors Have No Connectivity Despite Authentication Open Being Configured
CSCvn66390	bgp dynamic neighbor not up
CSCvn69816	CUBE strips '+' sign from the called number in the outgoing INVITE.
CSCvn78349	FlexVPN with password encryption - keyring aaa LIST password 6 xxxxx encrypted again upon reload
CSCvn82489	CUBE changing the payload for content sharing packets, though it negotiate correctly
CSCvo00687	Alignment error with MACE enabled
CSCvo03458	PKI "revocation check crl none" does not fallback if CRL not reachable
CSCvo05000	SIP global binding disappears when the interface to which SIP is bound flaps.
CSCvo09302	Tracebacks when login limit exceeds while logging into SSL VPN portal
CSCvo12745	Packet drop occurs after acl permit configurations
CSCvo24472	SNMP query for local BGP AS "cBgpLocalAS" is failing
CSCvo24629	Chunk corruption crash when processing packet in CSDB_TCP_LISTEN state
CSCvo27553	PKI incorrect fingerprint calculation during CA authentication
CSCvo30329	Router crashing after upgrade due to Crypto commands "Block overrun at 284B2160 (red zone 000110DF)"
CSCvo37464	CUBE picks incorrect interface for media after receiving c=IN IP4 0.0.0.0
CSCvo39963	Analog phones on VG310 play continuous BEEP tone approx every 60 secs.
CSCvo45698	BGP has VxLAN RNH "show bgp l2vpn evpn rnh" but missing entries in "show nve peers"
CSCvo60302	Deleting one sip-copylist will remove all sip copy-lists from dialpeers
CSCvo66216	IPSec-Session count in "show crypto eli" reaches max causing VPN failure

Caveat ID Number	Description
CSCvo90231	spurious accesses are seen in show alignment output with BGP
CSCvo94468	%PERF_MON_ASYNC-3-MEM: Memory cleanup failed - ssrc db cache results in PMI not created on BR
CSCvp05070	Overlay BGP down when configured "ip nhrp server-only"
CSCvp08738	Router loses "transport tcp tls v1.0" on reload
CSCvp27220	Tail drops on IPSLA sender when using scaled udp-jitter probes
CSCvp29316	ISR8xx TCAM limitation
CSCvp33421	Shut down interface Wlan-GigabitEthernet0
CSCvp47074	BGP sends malformed EVPN MAC/IP Advertisement Route
CSCvp60608	Reload when importing certificate from nvram:
CSCvp66849	MED should be compared if the first AS number in AS-PATH is 2 ¹⁶ , i.e, 65536
CSCvp76434	OSPF summary-route (Type 5) redistribute into ospf via 'summary-address' cmd is not install in RIB
CSCvp78236	Crash during SNMP Configuration, ospfv3_pdb_from_router_info
CSCvp81102	IPsec SA installation fails with simultaneous negotiations despite fix for CSCve08418
CSCvp87125	Default-route is not installed in Local PE VRF if there is 0.0.0.0/X route present in routing table
CSCvp90380	C5915 - NVRAM corrupts during bootup
CSCvp92334	Crash after Media monitor look up.
CSCvp99569	Secondary subnets not redistributed from OSPF into BGP
CSCvp99881	BGP set wrong local preference for routes in RPKI invalid state
CSCvq00550	Split DNS not working in case of TCP query coming on WAN interface and destined to LAN interface
CSCvq03717	ISDN memory leak
CSCvq06717	BGP/ expanded extcommunity regex filter is not working as expected
CSCvq46617	RLFA config causing OSPF to ignore backup path addition for NSSA prefix after primary link flap
CSCvr16484	CGR : PRI values is not seen under the show cellular hardware
CSCvg81898	FMT_SMF.1.1 Audit Review

Open Bugs—Cisco IOS Release 15.6(3)M7

Table 4: Open Bugs—Cisco IOS Release 15.6(3)M7

Caveat ID Number	Description
CSCtq80074	Crah seen @ trigger_auth_command
CSCUh84343	IOS/XE NTP synchronized but clock drifts
CSCUu71473	Rework for CSCun57148 - High CPU in FNF Cache Ager P
CSCva20682	VWIC3:Line protocol goes down with a config of Sha-512 & ping > MTU size
CSCvb17499	891 interfaces show down after link flap when hard coding speed & duplex
CSCvc19168	Audio stream is lost from Gateway once it receives mid-call Re-invite CUCM
CSCvc88079	IR809G serial s0 RS485 violates Modbus specification
CSCvd38167	'Referred-By' header missing in Invite while 'session server-group' is used under dial-peer
CSCvd45388	ENH: IOS to send 0x7408 IKEV2_MODECFG_RESOLVE_DNS
CSCve76023	CUBE sends SIP Invite with incorrect Req-URI when using SIP Server group
CSCvf39847	IR8x9 may fail if powered by battery with no charge controller
CSCvf54971	Router crashes after loading NBAR2 protocol pack
CSCvg00547	Bundled BIOS upgrade failure
CSCvg68773	Global bind disappears when bind interface flaps during an active call
CSCvh31418	IR809/IR829 - Possible side-channel style information disclosure vuln
CSCvh73576	config revert Rollback visible in console and locks up config from VTY
CSCvi85087	ACL sl_def_acl getting saved on running config
CSCvj00317	Memory leak VOIP *MallocLite*
CSCvj28921	High CPU due to Alignment Corrections - SMEF & IWAN
CSCvj29095	High CPU due to Alignment Corrections - DNS & NBAR
CSCvk05687	Directly connected IPV6 connectivity broken 800 series router
CSCvk28540	ACS URL not overwritten when sent from DHCP Server
CSCvk33579	C841M: usb dongle modem queue stuck
CSCvm33637	C881G-4G: Normal buffer leak with: pak_copy_network_start_particlized - cont #2.

Caveat ID Number	Description
CSCvm40582	Crash when entering username with aaa common-criteria policy password
CSCvm98341	crash because of function "flow_exp_v5_new_pak"
CSCvn18500	Certificate map does not work always with UPN in SAN field
CSCvn32526	Crash when making voice call via sip trunk
CSCvn32628	Crashed when type 'no service dhcp' with router use DHCP static binding file in DHCP pool
CSCvn40357	After C897 is reloaded ,routed pseudowire is not passing traffic
CSCvn41514	C867VAE-W WLAN configurations not saved to flash
CSCvn69816	CUBE strips '+' sign from the called number in the outgoing INVITE.
CSCvn79227	QSIG - SIP - Connected Number Missing leading digit when decoding raw QSIG
CSCvn82489	CUBE changing the payload for content sharing packets, though it negotiate correctly
CSCvo07212	BFD PP Process Crashes in Timer Wheel Replenish
CSCvo09302	Tracebacks when login limit exceeds while logging into SSL VPN portal

Resolved Bugs—Cisco IOS Release 15.6(3)M6a

Table 5: Resolved Bugs—Cisco IOS Release 15.6(3)M6

Caveat ID Number	Description
CSCvo30329	Router crashing after upgrade due to Crypto commands "Block overrun at 284B2160 (red zone 000110DF)"

Resolved Bugs—Cisco IOS Release 15.6(3)M6

Table 6: Resolved Bugs—Cisco IOS Release 15.6(3)M6

Caveat ID Number	Description
CSCua95810	IOS PKI: trustpoint doesn't rollover regenerated RSA keys.
CSCuz99865	IPSec MIB queries returns wrong tunnel count
CSCva97469	VA stuck in protocol down state after failing to establish IPSec session
CSCvb90483	VXML GW hardening changes for ICBC memory corruption issue

Caveat ID Number	Description
CSCvc39563	High CPU Due to "Async write proc" During Hung Filesystem Operation
CSCvd87882	Route-map for static nat statement gets removed by itself
CSCve08418	IPsec/IKEv2 Installation Sometimes Fails With Simultaneous Negotiations
CSCve86017	Router getting hang after reload when using static NAT
CSCvf16338	voiprtp_register_transport_port_manager_and_reserve: Alloc ports failed, min: 8000, max: 48199 248
CSCvf35507	Crash in SSH Process due to SCP memory corruption
CSCvf51773	NHRP redirect overriding routing table
CSCvg06142	'ipsm Tunnel Entry' and 'Crypto IKMP' memory leak due to IKE tunnel entry not deleted
CSCvg67028	VRF deletion status <being deleted> after removing the RD
CSCvh26364	Anyconnect: Hairpinning fails with cef enabled
CSCvh32216	Sporadic Crashes Due to IPsec (during ISAKMP AAA interaction)
CSCvh32224	8800 KEM module not getting detected on 88XX phones with CME 12,11.6
CSCvh49380	PFRv3 Incorrect reported value of TCA threshold in traffic-class router change history
CSCvh58909	OSPFv3 cost calculation not correct in some specific topology
CSCvi01558	iBGP dynamic peer using TTL 1
CSCvi26188	Watchdog crash within mgcpapp_free_sys_event_Q event dequeue loop after running 'ccm-manager config'
CSCvi65958	Standby RP crashes due to shortage of memory when running OSPF
CSCvi74088	link local multicast packets are received when the SVI is in down state
CSCvj16209	CME with external SIP trunk registration results into crash.
CSCvj26291	Observing "%SNMP-3-INPUT_QFULL_ERR: Packet dropped due to input queue full" logs
CSCvj44709	Pause Frames transmitted on interface even after traffic spike ends
CSCvj69654	OSPF originates default route without "default-information originate"
CSCvj71845	Backup path incorrect for ring topology where high ISIS cost is configured on 1 link.
CSCvj73544	ospf routing loop for external route with multiple VLINKs/ABRs
CSCvj78647	mtu cli is disappeared from show run when interface dialer sh/no shu

Caveat ID Number	Description
CSCvj90089	Crash while doing a conference call
CSCvj91448	PKI:-IP address parsing issue while printing the subject name if classless IP is used in Trustpoint
CSCvj95361	Crashed due to process = IPSec background proc
CSCvk03910	OSPF neighbor stuck in loading after VSS switchover
CSCvk04283	Crash with fragmented packets at the moment of doing a global->local translation
CSCvk10633	bgp crash while running show command and same time bgp peer reset
CSCvk16323	Secure CME/SRST router with PRI/BRI not able send or receive calls
CSCvk16771	ISIS for IP is enabled/installing routes in the RIB while IP routing is disabled
CSCvk20560	491 not sent in a multiple re-invites in DO2EO scenario
CSCvk22449	BGP Traceback/Crash seen with 20k IPv4 BGP scale after reload/clearing bgp
CSCvk24327	Branch BR crashed at cent_rpi_parent_del_user_ctx_by_ref with branch scale test
CSCvk30939	Memory corruption at PKI Session End
CSCvk37875	High Availability system with two Voice Gateways - Crash
CSCvk45884	BGP 'address-family ipv4' sub-configuration is not shown in the running configuration
CSCvk56331	Initial contact in IKEv1 phase 2 rekey (QM1) causes all crypto sessions to drop
CSCvk65354	Extension Mobility Not working when used with Greek locale on SIP CME
CSCvk66880	CUBE incorrectly fomats SIP SDP
CSCvk69093	CUBE is not responding to SIP INFO
CSCvm02020	PMIPV6: Tunnel information on MAG for a GRE IPv6 tunnel shows invalid IPv4 addresses
CSCvm19399	CRL file is getting overwritten when PKI server turns up after reload
CSCvm32047	Device crashed when call-home is enabled and non-ascii characters in use in login banner
CSCvm32630	Crash due to out-of-memory condition, huge Memory @CENT-BR-0
CSCvm40441	CFD: PNP DNS discovery with trust pool flow uses IP address in PNP profile instead of FQDN
CSCvm40496	iBGP PE-CE When Route-Reflect enable VRF import all Route Target.
CSCvm45068	IOS CUBE Ent does not show 'media anti-trombone' in configuration

Caveat ID Number	Description
CSCvm53491	SIP CME Crashes when Calling Shared Line
CSCvm55465	BGP updates missing ISIS advertising-bits led to LDP label purge on peer.
CSCvm61279	Crash under AFW_application_process with shared-line configuration
CSCvm65384	SNMP PKI trap are generated with wrong OID of 6999 instead of 854 per OID assignment
CSCvm74894	PKI authentication should proceed even if GetCACaps return any http failure
CSCvm76452	IPSec background crash while sending SNMP trap
CSCvm88569	WATCHDOG with DHCP Client
CSCvm91837	IOS and IOS-XE STCAPP service not updating DTMF RFC2833 payload when there is SCCP renegotiation
CSCvm93603	IP change on dialer-int does not trigger a correct "local crypto entpt" in DMVPN
CSCvm94112	DSM-3-INTERNAL: Internal Error : No DSM handle provided traceback on TDM voice gateway
CSCvn14454	iWAN router PDP crash on HUB MC due to PLR interface flapping w/o other available path
CSCvn17530	Router Crashes When PKI-CRL-IO_0 Runs out of Stack Space During Failed DNS Lookup for CA Server
CSCvn18712	CUBE incorrectly fomats SIP SDP with Content-Length > 1024
CSCvn41467	Recommit of CSCvm99778 - eca/ewlc/qwlc/mewlc Sanity : AP join failed.
CSCvn44101	Router may experience a crash on process CENT-BR-0 when receiving an internal update
CSCvn63198	iWAN domain password is overwritten by the global password, "password encryption aes"
CSCvn68743	Flash corruption results in endless loop in dfs_init_inodetable
CSCvn71862	IWAN Crash When Accessing Invalid Address
CSCvn17332	Memory leak at __be_crypto_acl_lookup_v4_hit_count_handle

Open Bugs—Cisco IOS Release 15.6(3)M6

Table 7: Open Bugs—Cisco IOS Release 15.6(3)M6

Caveat ID Number	Description
CSCtq80074	Crah seen @ trigger_auth_command
CSCuh84343	IOS/XE NTP synchronized but clock drifts
CSCuu71473	Rework for CSCun57148 - High CPU in FNF Cache Ager P
CSCva20682	VWIC3:Line protocol goes down with a config of Sha-512 & ping > MTU size
CSCvb17499	891 interfaces show down after link flap when hard coding speed & duplex
CSCvc19168	Audio stream is lost from Gateway once it receives mid-call Re-invite CUCM
CSCvc88079	IR809G serial s0 RS485 violates Modbus specification
CSCvd38167	'Referred-By' header missing in Invite while 'session server-group' is used under dial-peer
CSCvd45388	ENH: IOS to send 0x7408 IKEV2_MODECFG_RESOLVE_DNS
CSCve76023	CUBE sends SIP Invite with incorrect Req-URI when using SIP Server group
CSCvf39847	IR8x9 may fail if powered by battery with no charge controller
CSCvf54971	Router crashes after loading NBAR2 protocol pack
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CSCvh31418	IR809/IR829 - Possible side-channel style information disclosure vuln
CSCvh73576	config revert Rollback visible in console and locks up config from VTY
CSCvi85087	ACL sl_def_acl getting saved on running config
CSCvj00317	Memory leak VOIP *MallocLite*
CSCvj28921	High CPU due to Alignment Corrections - SMEF & IWAN
CSCvj29095	High CPU due to Alignment Corrections - DNS & NBAR
CSCvk05687	Directly connected IPV6 connectivity broken 800 series router
CSCvk28540	ACS URL not overwritten when sent from DHCP Server
CSCvk33579	C841M: usb dongle modem queue stuck
CSCvm33637	C881G-4G: Normal buffer leak with: pak_copy_network_start_particlized - cont #2.

Caveat ID Number	Description
CSCvm40582	Crash when entering username with aaa common-criteria policy password
CSCvm98341	crash because of function "flow_exp_v5_new_pak"
CSCvn18500	Certificate map does not work always with UPN in SAN field
CSCvn32526	Crash when making voice call via sip trunk
CSCvn32628	Crashed when type 'no service dhcp' with router use DHCP static binding file in DHCP pool
CSCvn40357	After C897 is reloaded ,routed pseudowire is not passing traffic
CSCvn41514	C867VAE-W WLAN configurations not saved to flash
CSCvn69816	CUBE strips '+' sign from the called number in the outgoing INVITE.
CSCvn79227	QSIG - SIP - Connected Number Missing leading digit when decoding raw QSIG
CSCvn82489	CUBE changing the payload for content sharing packets, though it negotiate correctly
CSCvo07212	BFD PP Process Crashes in Timer Wheel Replenish
CSCvo09302	Tracebacks when login limit exceeds while logging into SSL VPN portal

Resolved Bugs—Cisco IOS Release 15.6(3)M5

Table 8: Resolved Bugs—Cisco IOS Release 15.6(3)M5

Caveat ID Number	Description
CSCut87808	Crash While Accessing CallManager XML Config
CSCuv90519	Map doesn't get updated with socket change on local address change
CSCuy51073	More memory leaks for IP nat translation
CSCuy79944	call-home crash because calling XOS API in interrupt level
CSCuy88330	Config Sync failure with Call-home, reporting smart-licensing-data
CSCva42638	Traceback is seen when a EEM script runs
CSCvb34443	ikev2 fragmentation not working with aes-gcm encryption - hmac failure
CSCvb59372	Double-free of VTY context causes a software-forced crash
CSCvb86484	wrong EIGRP redistribution statement in startup config breaks BGP settings after router reload
CSCvc40533	CUBE sending duplicate session ID for BYE/CANCEL transaction

Caveat ID Number	Description
CSCvc47166	One-way audio on held-resumed calls after 20 mins
CSCvc55378	ASR1k crashed while unconfiguring Netflow
CSCvc98571	EEM applet will not release the Config Session Lock if it ends when CLI is in configuration mode
CSCvd02153	Router may crash when performing MPLS fragmentation.
CSCvd04871	Crash after IWAN does a recalculation in the RIB
CSCvd47657	ISR4K routers may crashed with Segmentation Fault in AFW Application Process
CSCvd50282	"password encryption aes" may break redundancy
CSCvd50613	ISR4431 crashes with UNIX-EXT-SIGNAL: Segmentation fault(11), Process = HTTP CP
CSCve38080	CME SIP: User Busy on Shared Line due to Call Leak
CSCvfi1721	ASR1k netflow crash at flow_def_field_list_copy_with_callback
CSCvf23339	Communication through Serial port not going through RTS down
CSCvf36269	Cisco IOS and IOS XE Software Plug-and-Play PKI API Certificate Validation Vulnerability
CSCvf53053	Crash when issuing no dspfarm profile x stuck on DOWN_PENDING state.
CSCvf64068	SNMP Walk for cpmProcessEntry mib causes the crash
CSCvf84349	Router crash on polling cEigrpPeerEntry
CSCvf84528	False "voip_rtp_allocate_port:Possible port leak" errors
CSCvg05896	IWAN EIGRP SAF - seq number mismatch after branch reload
CSCvg30511	Normal buffer leak with: pak_copy_network_start_particlized - cont.
CSCvg34167	Unexpected reboot of voice gateway 4400ISR
CSCvg48492	BE4000 one way audio seen line to trunk side call with VRF enabled
CSCvg56628	"*Packet Header*" and "pak subblock chunk" leak
CSCvg71566	"no cdp enable" is rewritten to "no cdp tlv app" after reload.
CSCvg76912	CFD: pnp config upgrade failed when IFS returns size 0 for all TFTP files
CSCvg84989	List Header leak with PFR enabled
CSCvg89163	CUBE does not acknowledge Session-Expires header in UPDATE
CSCvg95562	CENT: branch MC crashed @ cent_pdp_msg_send_from_pickexit after CSCup19724

Caveat ID Number	Description
CSCvg97010	load-balance advanced moving traffic to fallback path when primary path are not over utilized
CSCvh05575	ISR 4k SCCP Process Does Not Wait for All PVDM Modules to Come Up Before Registering
CSCvh05611	IOSd crash while applying dial peer configuration
CSCvh30035	ISM stops forwarding IPSEC traffic / %OCE-3-OCE_FWD_STATE_HANDLE / free_ob=75000
CSCvh45897	NAT not doing translation for SIP payload
CSCvh48610	iwan router crash while updating pmi policy
CSCvh55744	SSH password length restricted to 25 for avoiding one of the low impact vulnerability.
CSCvh57226	High memory utilization over CENT-MC-0 and CENT-BR-0 processes
CSCvh64475	router crashed after entered "no ipv6 access-class sl_def_ipv6_acl in" during quiet mode
CSCvh66033	IKEv2 - Crash with segmentation fault when debugs crypto ikev2 are enabled
CSCvh68228	CUBE Unsolicited NOTIFY returns 481 Subscription does not exist
CSCvh73134	ISDN memory leak
CSCvh75132	CPP crash stuck thread detected multikey_hash_replace_int
CSCvh79942	Chunk corruption crash related to PNP or Guestshell
CSCvh85788	Local LAN-only prefix present in master route-import table but not present in site prefix DB
CSCvh87009	Static NAT entry disappears from running-config with NVI nat
CSCvh92378	High CPU utlization with presence feature when reset is issued under voice register global
CSCvh96542	CCSIP_SPI_CONTRO holding memory increasing
CSCvi05172	Overruns due to nbar with bursty flows
CSCvi05408	Memory leak due to asnl
CSCvi06897	dialpeer matching for inbound SIP profile fails with VRFs
CSCvi22397	MGRE Hub-to-spoke traffic getting decapsulated on P2P gre interface.
CSCvi35960	VRF aware CUBE fails to send OOD OPTIONS pings
CSCvi42002	CDP packets not getting encapsulated over multipoint GRE tunnel

Caveat ID Number	Description
CSCvi42049	Crashes seen with C2900+ISM crypto engine with high traffic rates / high CPU
CSCvi52608	CLI show aaa clients detailed command triggered SSH to crash
CSCvi62229	ZBFW : Zone pair policies with default zone don't match for return traffic
CSCvi70934	SYS-3-INVMEMINT: Invalid memory action prior crash with MoH + route list
CSCvi81348	SM-ES3G-24-P denied power beyond 480Watt by Cisco3945e chassis
CSCvi93528	PI IOSd reload due to call-home at kex_dh_hash conn pointing to eem
CSCvj20285	Stack corruption crash on ESR
CSCvj23301	IOS: Crypto Ruleset fails to get deleted
CSCvj24940	Voice VRF with No Bind OPTIONS Ping response not sent
CSCvj25678	Crash after failing to modify xcode
CSCvj51066	c3900E w/SPE200 - 15.5(3)M7 - bus error crash with IPv6 crypto traffic and high CPU
CSCvj60825	Redzone overlay copying SIP SDP data
CSCvj61463	ISR crashes after no parameter-map type cws global command
CSCvj84158	PfRv3: BR May Crash due to Channel Creation/Modification and Next-Hop State (Copied from CSCva72274)
CSCvk27007	MGCP status remains Down after IOS upgrade caused by CSCvh70570

Open Bugs—Cisco IOS Release 15.6(3)M5

Caveat ID Number	Description
CSCtq80074	Crash seen @ trigger_auth_command
CSCuu76493	Cisco IOS and IOS XE Software EnergyWise Denial of Service Vulnerabilities
CSCuz39721	ASR1K/RP2/SW 15.4(3)S4 crash
CSCva20682	VWIC3:Line protocol goes down with a config of Sha-512 & ping > MTU size
CSCva42524	%SMC-2-BAD_ID_HW: Failed Identification Test in 0/-1/-1 [7/0] in logs
CSCva86897	Traffic export (RITE) corrupts the copied packets received on a vDSL/PPPOE interface
CSCvb16468	IR829: RSSI mib-trap commands are not recognized or accepted
CSCvb47928	CUBE is stripping "Session-Expire" header

Caveat ID Number	Description
CSCvb59747	Half duplex path streams (MoH) not established with source filter
CSCvc19168	Audio stream is lost from Gateway once it receives mid-call Re-invite CUCM
CSCvc39563	High CPU Due to "Async write proc" During Hung Filesystem Operation
CSCvc88079	IR809G serial s0 RS485 violates Modbus specification
CSCvc95767	MAT event not getting triggered in IE 3000 & IE4000
CSCvd35848	MAINBOARD-3-I2CRW_ERROR
CSCvd38167	'Referred-By' header missing in Invite while 'session server-group' is used under dial-peer
CSCvd45388	ENH: IOS to send 0x7408 IKEV2_MODECFG_RESOLVE_DNS
CSCvd87882	Route-map for static nat statement gets removed by itself
CSCve76023	CUBE sends SIP Invite with incorrect Req-URI when using SIP Server group
CSCve86017	Router getting hang after reload when using static NAT
CSCvf34608	Excessive "Reflector" Tracelogs
CSCvf39847	IR8x9 may fail if powered by battery with no charge controller
CSCvf54971	Router crashes after loading NBAR2 protocol pack
CSCvf85462	CUBE fails to send "SIP Ack" when incoming SIP 18x response has DNS name in SIP 'Contact' Header
CSCvg00547	Bundled BIOS upgrade failure
CSCvg06142	'ipsm Tunnel Entry' and 'Crypto IKMP' memory leak due to IKE tunnel entry not deleted
CSCvg12605	Corrupted NOTIFY leads to %CRYPTO-4-IKMP_BAD_MESSAGE, stale ISAKMP SA and traffic failure
CSCvg29934	Silent reboot on 2900 router
CSCvg68773	Global bind disappears when bind interface flaps during an active call
CSCvh26364	Anyconnect: Hairpinning fails with cef enabled
CSCvh31418	IR809/IR829 - Possible side-channel style information disclosure vuln
CSCvh32224	8800 KEM module not getting detected on 88XX phones with CME 12,11.6
CSCvi50061	Evaluate NTP February 2018 Vulnerabilities.
CSCvi85087	ACL sl_def_acl getting saved on running config

Caveat ID Number	Description
CSCvj28921	High CPU due to Alignment Corrections - SMEF & IWAN
CSCvj29095	High CPU due to Alignment Corrections - DNS & NBAR
CSCvj72273	GETVPN Key Servers after split may generate TEK with same SPI but different key material
CSCvj83284	3650 mab failover does not work after first failed dot1x authentication
CSCvj99413	Memory leak on the Small Buffer pool due to "x25swt_last_resort" process
CSCvk00363	"ip address dhcp" may disappear from configuration affecting forwarding capability
CSCvk04242	Command 'ipv6 tcp adjust-mss 1360' does not take effect with GETVPN
CSCvk04283	Crash with fragmented packets at the moment of doing a global->local translation
CSCvk05687	Directly connected IPV6 connectivity broken 800 series router
CSCvk13574	Incorrect values for conformed traffic upon applying PIR values greater than 4G
CSCvk15246	MPOL - EIGRP packet drops from Shaping QoS policy
CSCvk16922	Device-Sensor accounting TLVs not supported in ISR
CSCvk22146	X25 translation failing on cisco 2900 router
CSCvk28540	ACS URL not overwritten when sent from DHCP Server
CSCvk30939	Memory corruption at PKI Session End
CSCvk33579	C841M: usb dongle modem queue stuck
CSCvk34215	COOP ANN messages fail to send around the time of TEK generation
CSCvk39361	Dot1x on C886 routers fails in multi-domain mode

Resolved Bugs—Cisco IOS Release 15.6(3)M4

Table 9: Resolved Bugs—Cisco IOS Release 15.6(3)M4

Caveat ID Number	Description
CSCsl95969	ENH: CA certificates expiring after 2038 should be supported by IOS
CSCut98625	ASSERTION FAILED : ..vtsp.c: vtsp_cdb_assert: then crash
CSCuw19844	router crash while connecting to the camera on the NAT enabled interface
CSCux45452	Spike seen in SLCP process due to specific OIDs being polled by SNMP
CSCuy09470	ISIS hello stops to be sent after RSP switchover

Caveat ID Number	Description
CSCuy32360	Cisco IOS Software Secure Login Denial of Service Vulnerability
CSCuz20869	RFC: BGP sending error sub-code: 8 instead of '4'
CSCva44291	OCSP SHA2 signature algorithms verification fails
CSCva92216	BGP session is reset when unrecognized capability received in OPEN message
CSCvb14640	Cisco IOS and Cisco IOS XE Software IPv6 SNMP Message Handling Denial of Service Vulnerability
CSCvb85345	IOS Crash in Timer Wheel Tick on High Timer Churn
CSCvb94392	Cisco IOS and IOS XE System Software SNMP Subsystem Denial of Service Vulnerability
CSCvb98227	IOS: router crashed due to possible memory leak on CCSIP_SPI_CONTROL
CSCvc07577	Crash in BGP due to regular expressions
CSCvc09919	UCI-4k: Lisp Assert @ lisp_os_rib_watch_start with vrf delete and traffic loss with re-config
CSCvc39087	Default route via dialer interface stays up, even when dialer is down.
CSCvc61899	static route is not getting redistributed into RIP database
CSCvc64017	IOS/IOS-XE logging "sym_xapp_calleg_setup_req:codec not passthru do_rtcp == TRUE" messages
CSCvc78492	DMVPN : IOS-XE - Unable to pass traffic if spoke to spoke fails to build in phase 2
CSCvd64575	command sh run caused router to pause passing traffic 1 to 2 seconds.
CSCvd90410	Router loses RSA keys upon boot with private-config encryption and config archive enabled
CSCvd96815	Enhancement: Un-controlled TC in DISCARDED state is dropped instead of RIB-routed
CSCvd97768	ISR4k crash at sstrncpy using voice.
CSCve05026	Fatal Alignment Error Crash Due to Corrupted PC with SMEF
CSCve09104	Command "segment-routing mpls" under router isis 1 not getting NVGEN'd
CSCve15722	The second and later Pfrv3 VRF configs are missing after reload
CSCve17435	ipv6 lisp etr map-server key xxx hash-function sha2 is lost from cpe config upon reload
CSCve38585	4K UCI Phase2: Crash @ lisp_dyn_eid_instance_route_update when changing to default vrf
CSCve39308	cft_fid_table_new_flow causing Memory Fragmentation on c3900

Caveat ID Number	Description
CSCve41775	crash over CCSIP_SPI_CONTROL process due to null pointer / segmentation fault
CSCve51657	Slow convergence with scale after a core link flaps
CSCve55089	BGP crashes at bgp_ha_sso_enable_ssmode
CSCve57506	IPv6 ESP traffic incorrectly dropped after decryption by IPv6 interface access-list
CSCve57508	SSLVPN_PROCESS memory leak in IOS
CSCve59906	router crash with "param long-dur-action disconnect"
CSCve63165	ASR903 RSP1 crashes @ ssh_buffer_append, ssh2_packet_start
CSCve68771	Crash in TCL/AFW processes
CSCve68911	Nested Enhanced Route Refresh requests triggers Stale Prefixes.
CSCve74806	Standby Router crash when there is a m-line shrink case within the dialog.
CSCve75919	In-dialog options ping received post ACK (call completion) cause cube to change codec and no audio
CSCve77120	Need a CLI command to control logging-tag in non-generic messages
CSCvf07153	SIP Date header format not in GMT Format
CSCvf11181	3925 crash at be_fw_dp_sccp_handle
CSCvf12692	CUBE HA w/multitenant not processing OPTIONS
CSCvf18470	IOS-XE CUBE HA crash
CSCvf19607	ISR4K not correctly handling forked 18X responses with SDP
CSCvf21005	config mismatch after code upgraded
CSCvf24713	stale path message for that prefix is noticed when dampening is configured.
CSCvf25433	Crash after reconfiguring 'login quiet-mode access-class' or 'login block-for'
CSCvf29213	PFRV3: Site Prefix shows unreachable after removing and adding the specific route for the prefix
CSCvf29238	VXML GW is unable to populate the MRCP V2 headers based on child VXML documents
CSCvf31193	CSR1k: Crash observed @ __be_cent_br_check_valid_ndb_prefix
CSCvf33947	CUBE can't handle mid-call re-invite when midcall-signalling passthrough mediachange is configured
CSCvf36269	Cisco IOS and IOS XE Software Plug-and-Play PKI API Certificate Validation Vulnerability

Caveat ID Number	Description
CSCvf38050	Voice Gateway crash due to memory corruption while finding DN index during redirect
CSCvf39474	GETVPN: TBAR sync "timer is not running" after KS upgrade causing anti-reply drops and GM outages
CSCvf48159	Router crash during T38 fax bitrate negotiation
CSCvf51341	Crash after show ip ospf database summary command
CSCvf54314	Crash due to a null pointer dereference on htsp structure
CSCvf60862	Cisco IOS and IOS XE Software IOS daemon Cross-Site Scripting Vulnerability
CSCvf62916	Router crashes when doing "show ip bgp neighbor" on a flapping BGP neighborship
CSCvf63541	BGP w/global import/export crashes when several nbrs deleted simultaneously
CSCvf65643	Unicast ping stops working when "ip pim sparse-mode" removed from SVI
CSCvf67269	IS-IS support for multi-instance redistribution for IPv6.
CSCvf67481	AAA process not sending malloc if dynamic heap free mem is under aaa mem threshold
CSCvf68602	e1r2-Cas is not working when adding "invert-abcd 1 0 0 0"
CSCvf70383	Crash in SDP Passthru when T.38 as 1st mline in mid-call SDP
CSCvf71358	NBAR First Packet Classification fails with AppNav enabled
CSCvf74829	CRL download fails due to "failed to create getcacert message"
CSCvf75957	Bundle-install timeout due to IOS extraction failure
CSCvf80495	IPv6 BGP network advertized not seen in the peer
CSCvf81579	ASR1K: IOSd crash in kmi_initial_check on null map dereference
CSCvf84295	Memory leak in IPSEC key engine process
CSCvf84386	ASR920: Router Crashed after configuring PPP CHAP in multilink interface(OC3IM OC12IM)
CSCvf87649	C891-24X/K9 BDI not forwarding traffic as mac address 0000.0000.0000
CSCvf89608	Missing ip route to cellular interface after router reload or modem power cycle
CSCvf92033	Memory leak in SSLVPN_PROCESS due to sslvpn aaa
CSCvf95077	Stale Mac entry in MLRIB
CSCvf96035	ISIS redistribute connected not working for IPV6 routes
CSCvf97230	RE-INVITE and OPTIONS Glare not handled by CUBE
CSCvg02533	router crashed after triggers with debug

Caveat ID Number	Description
CSCvg07428	PfRv3 triggers List Header leak in FNF
CSCvg13049	ISRG2: dot1p marking fails if service-policy applied on the Dialer
CSCvg14256	Crash at cc_detect_mute_call
CSCvg16544	C5921 in storage node-lock mode incorrectly detects physical hardware as VM
CSCvg21440	Memory leak with DMVPN tunnel protection ipsec
CSCvg26494	Router Crashes Due to Memory Corruption When Transferring Shared Line Call
CSCvg28395	Crash when doing snmp walk for ipAddressEntry
CSCvg29183	ISR4K - XE 16.3.4 - SIP-TDM GW - FLEXDSPRM-3-TDM_CONNECT errors and crash
CSCvg31493	Stale Mac entry in MLRIB additional fix
CSCvg45247	Site-prefix learning: Crash in 'IP RIB Update' Process after 'no domain default' on B1BR2
CSCvg52560	Traceback: OCSF creates a large number of lists and triggers a memory problem
CSCvg60185	ISR 4000 discards private RSA key after upgrade and reload with WAAS module
CSCvg74048	PKI: All SCEP requests fail with "Failed to send the request. There is another request in progress"
CSCvg85879	BGP sets the wrong Local Preference for routes validated by RPKI server
CSCvg89949	Crash seen on VDSL with ATM over Ethernet configuration
CSCvh12079	Router loses RSA keys and type 6 password encryption key upon boot with private-config encryption
CSCvh17481	PKI: Device crash during crl download with multiple CDP URI
CSCvh24315	Memory leak for CCSIP_TCP_SOCKET and CCSIP_UDP_SOCKET on CUBE
CSCvh47443	Spoke-to-spoke site-prefix reachability checking should be removed

Open Bugs—Cisco IOS Release 15.6(3)M4

Table 10: Open Bugs—Cisco IOS Release 15.6(3)M4

Caveat ID Number	Description
CSCsw31148	Feature Enhancement Request for ARP entry limit capability
CSCtq80074	Crash seen @ trigger_auth_command

Caveat ID Number	Description
CSCuu76493	Cisco IOS and IOS XE Software EnergyWise Denial of Service Vulnerabilities
CSCuy07465	Evaluation of cgr1000 for OpenSSL January 2016
CSCuz39721	ASR1K/RP2/SW 15.4(3)S4 crash
CSCva42524	%SMC-2-BAD_ID_HW: Failed Identification Test in 0/-1/-1 [7/0] in logs
CSCva64578	819 advertises MACs learned from AP802 back to AP802
CSCva86897	Traffic export (RITE) corrupts the copied packets received on a vDSL/PPPOE interface
CSCva96583	PRP duplication remove weakness against introduced delay/jitter
CSCvb20224	Router crashes on configuring bandwidth on the Dialer interface
CSCvb49055	CGNA: Not able to apply config when there is only Cellular interface
CSCvc19168	Audio stream is lost from Gateway once it receives mid-call Re-invite CUCM
CSCvc39563	ISR 8xx - High CPU Due to "Async write proc" During Hung Filesystem Operation
CSCvc62742	Preventive fix for crash in AFW DataList
CSCvd35848	MAINBOARD-3-I2CRW_ERROR
CSCvd63055	RSP3: uea_mgr crash observed while match EFP policy DM case
CSCvd63393	Policy-map name 'policy-map PIN-G3/1/3.8' causes TB and subsequent RP Crash on Policy deletion/add.
CSCvd87882	Route-map for static nat statement gets removed by itself
CSCve86017	Router getting hang after reload when using static NAT
CSCve95338	IR8x9 Guest OS file system gets corrupted
CSCvg00547	Bundled BIOS upgrade failure
CSCvg29934	Silent reboot on 2900 router
CSCvg30511	Normal buffer leak with: pak_copy_network_start_particlied - cont.
CSCvg56628	"*Packet Header*" and "pak subblock chunk" leak
CSCvg68773	Global bind disappears when bind interface flaps during an active call
CSCvg71566	"no cdp enable" is rewritten to "no cdp tlv app" after reload.
CSCvg80679	CGR2010: Router crashes at first reload post GRWIC-4G-LTE-A modem firmware upgrade
CSCvg81898	FMT_SMF.1.1 Audit Review

Caveat ID Number	Description
CSCvh05575	ISR 4k SCCP Process Does Not Wait for All PVDM Modules to Come Up Before Registering
CSCvh23580	Memory leak in Chunk Manager process triggered by Flexible Netflow
CSCvh26364	Anyconnect: Hairpinning fails with cef enabled
CSCvh28534	Watchdog crash: PERF MON ASYNC EXPORT PROCESS
CSCvh30035	ISM stops forwarding IPSEC traffic / %OCE-3-OCE_FWD_STATE_HANDLE / free_ob=75000
CSCvh32224	8800 KEM module not getting detected on 88XX phones with CME 12,11.6
CSCvh45897	NAT not doing translation for SIP payload
CSCvh64475	router crashed after entered "no ipv6 access-class sl_def_ipv6_acl in" during quiet mode
CSCvh65331	Excessive traffic to/from GOS causing 'system hang' on IR800 router

Resolved Bugs—Cisco IOS Release 15.6(3)M3a

Table 11: Resolved Bugs—Cisco IOS Release 15.6(3)M3a

Caveat ID Number	Description
CSCvd88324	Ability to select the TLS 1.2 / SHA2 ciphers via CLI (ip http secure-ciphercuite)
CSCvf05732	Router prints show proc mem by default regardless of command entered
CSCvf33322	With shell processing full configured, passwords with \$ variable doesnt work
CSCvd90410	Router loses RSA keys upon boot with private-config encryption and config archive enabled

Resolved Bugs—Cisco IOS Release 15.6(3)M3

Table 12: Resolved Bugs—Cisco IOS Release 15.6(3)M3

Caveat ID Number	Description
CSCvd69608	Asr1k crashes at PPP process on pushing 4 or more per-user static ipv6 routes
CSCvb64818	ASR1k/ISG : 3.13.6 : Crash due to bad id in id_to_ptr when sending Accounting to non-existing group
CSCve63010	Authorization fails CLIs spanning VSS-Active and VSS-stby // CSCud74480

Caveat ID Number	Description
CSCvd97229	Framed-IPv6-Route attribute is not working for IPv6 full route with leading zeros
CSCvc18534	Incorrect Radius Server Status when locally defined user called in tester command
CSCvd12100	NGWC guest accounts aren't deleted after lifetime expires
CSCvc93081	TACACS memory leak from T+ READ HDR function
CSCCut50727	Cisco IOS and IOS XE Software EnergyWise Denial of Service Vulnerabilities
CSCvc54313	Crash in ALPS SNMP code
CSCCut74192	BFD session not coming up after interface in VRF shut and no shut
CSCvc18420	Sup8-E removing bfd template from interface causes standby to reload
CSCvd61632	"distance bgp 255 0 0" getting conf under IPv6 AF after some sequence of steps
CSCvc89965	After reload route policy processing not re-evaluate with route-map using match RPKI
CSCvc12039	ASR903/RSP1B&RSP3C 3sec to 10sec loss on RSP switchover when SSO enabled
CSCvc99820	BGP crashed configuring different update-source interface with v6 LL peering
CSCvc58538	BGP crashes when removing advertise-map
CSCvd90251	Duplicate BGP prefixes are not dropped
CSCvd09584	eVPN PMSI VNI decoding / encoding as MPLS label
CSCvd16828	High CPU due to periodic route refresh to VPN peers using rtfiler AF
CSCvd02623	Prefixes were not imported to Global BGP table
CSCvc47855	RJIL RT Filter peer sometimes unable to receive vpng4 or vpng6 nets
CSCvd15140	Router crashes using show BGP commands
CSCvc75887	Support of RFC7432 EVPN route type 4 of originating router IPv4/IPv6 address
CSCvd48039	UUT failed to send vpng4/v6 routes to peer
CSCvd47126	vrf blue doesnt receive type 7 croute
CSCvd43437	Wrong Source IP Selection for eBGP in EVN/VNET environment
CSCvc57697	Crash in Bstun SNMP code
CSCsy56638	Switch crashes after getnext on the last cafServerAliveAction index
CSCvc42980	Cisco2921 crash when disable/enable ACL list repeatly by ssh
CSCvc32055	ISR SIP CME crashes when "reset" command is used or after a reload
CSCvd49732	User receives "Transfer to is busy" when transferring calls to an Octo-line

Caveat ID Number	Description
CSCvf02115	Device Based BLF monitoring stops working after subscription expires in CME
CSCve76160	Transfer to voicemail not working because ephone-dn virtual/internal dial-peer is down
CSCuy40939	Trust List / Toll Fraud Feature vulnerability on CME
CSCvd33792	I/O pool memory leak when packets are redirected to ISM0/1 interface
CSCve06555	One-way Netflow with IPsec Tunnel-in-Tunnel using ISM-VPN-29
CSCve28730	Spurious memory access when booting C2911 w/ISM-VPN-29 and 15.5(3)M5a
CSCvd04672	3750E switch crashes Process "DHCPD Receive"
CSCvc96709	Crash using EIGRP and DVTI with IKEv2
CSCvc15297	eigrp to mp-bgp redistribution issue when metric changed
CSCve43573	Large EIGRP SAF updates close to max size may induce stale condition
CSCvb51806	Router crash when removing EIGRP
CSCvb99325	Virtual-Access interfaces are saving to the EIGRP running-config
CSCvc65604	VNET global vrf neighbor is down after an interface flap
CSCvd88737	ASR920 reload at fib_chain_remove (Part 4)
CSCve47887	Crash in CEF: IPv4 process on Catalyst 3850 and 3650
CSCvc14385	Missing FIB subblock causes crash when configuring vrf
CSCva03535	HTTP closing newly opened connections due to duplicate FD
CSCve28728	boot config flash0:init-conf nvbypass CLI failed: File system flash0: is unavailable
CSCve40916	Double free @ CWS tower polling results in crash
CSCvd99086	ISR4K DMVPN iBGP BFD sessions are not coming up with NBAR enabled
CSCvd13306	"no default-information originate" doesnt work unless "default-information originate" is added first
CSCvc35399	3900E not able to handle ospf peerings after the spokes cross 300 numeric count in dual hub design.
CSCux65265	Crash during the show interface CMD while a multicast tunnel goes down
CSCvc35453	ISATAP Server feature broken on ASR1K
CSCvd78425	Commit CSCum96146 CUBE HA pair crash into 15.5
CSCvc33794	CSR1000v HA Checkpointing Broken for Video Calls with SDP Pass-Thru

Caveat ID Number	Description
CSCvc66912	CUBE Ent crashes when Diversion header received with no user portion and 'history-info' enabled
CSCvc88068	Voice Class Tenant Bind Statement Fails in VRF
CSCve20522	"show crypto map" displays incorrect wildcard mask for crypto access-list
CSCve10917	IPSec crash on ASR1k router while processing KMI
CSCUw82187	IPSec MIB: Global IPsec Traffic counters are reported incorrectly
CSCvd99474	IPsec: For sVTI after rekey old SAs are not getting deleted
CSCvf11237	Memory leak seen@crypto_init_show_instance
CSCvd40880	Modifying crypto ACL leads to a removal of crypto map config
CSCvf22394	ASR1001 memory leak in the "Crypto IKE Dispa" process
CSCvc75262	GETVPN GM in "Not initialised" state after ISSU runversion
CSCvc93605	lifetime mismatch after outage of primary key server
CSCvc78694	Ikev2 SA INIT queue CLI : Fix default behaviour
CSCvc99738	IKEv2 tunnel fails to come up b/w Cisco routers post upgrading one router to 15.5(3)S5, 15.5(3)M5
CSCvc12306	Limit ike-init queue to improve performance in scaled scenarios
CSCva61415	Unable to initiate IKE sessions due to mismatch in CAC counters
CSCvc79296	Redundancy inter-device is not working with "security ipsec"
CSCvd47757	csr1000v is not able to poll CISCO-IPSEC-FLOW-MONITOR-MIB
CSCvd97524	Fixed versions for CSCuz15131 crash when traffic with maximum size is on wire
CSCve62464	Locally generated traffic may be dropped in a GETVPN over DMVPN setup
CSCvb25357	NHRP registration requests failed after ipv6 tunnel source change
CSCvb66239	Willr noL3 tunnel MTU is not signalled properly for locally-originated packets
CSCve95308	IR809 sensitivity to fluctuating battery power source
CSCvd25106	2nd isis instance crashes after configuring new connected-prefix-sid-map due to no instance PDB
CSCvd59518	incorrect flag in redistrib rib for connected routes causes mpls ping to fail
CSCvc55484	isis redistrib rib not getting cleared after disabling segment-routing
CSCvd03354	ISIS removing all connected ipv6 prefixes when removing 1 ipv6 scope

Caveat ID Number	Description
CSCvd21785	ISIS RIB and Global RIB out of sync resulting in complete traffic loss
CSCvc51408	ISIS route oscillation due to ldp sync and interface max metric
CSCvb58643	Traceback @__be_isis_age_one_lsp_chain when we un-configure NET-ID after site bridge-domain bringup
CSCvb00970	Undebug all not clearing default debug, ISIS SPF timing debug is enabled
CSCve61525	Commit pond2/golden warrior module firmware to t_base_6
CSCvd78430	"analysis-module monitoring" command missing for EHWIC UCS-E- variants.
CSCvd07943	C2911: trunk allowed vlan on the port connted to switch module can't up after power cycle
CSCvd24508	Packet loss on directly connected neighbor when Q-in-Q is configured
CSCve60507	Crash in "mac auth bypass" SNMP code
CSCve60376	Crash in ADSL DMT SNMP code
CSCve60276	Crash in ADSL SNMP code
CSCuu73953	tftp-server command is Mandatory for SM-X-1T3/E3 on ISR-G2 Platforms
CSCve30307	POE on SM-ES2-24-P with 2911 router dropped after IOS upgrade.
CSCve53674	crash on l2tp_session_get_soczket_type
CSCuz42299	Crash when configuring CWS
CSCvb65024	LDAP authentication reuses old TCP connection
CSCva11004	Memory leak due to LDAP process.
CSCvd21509	Cat3k: High CPU and Memory utilization seen after deleting eid-table on fabric edge node
CSCve03563	LISP to OSPF redistribution failing
CSCuz44815	LISP: after locator vrf cfg toggled on xTR, registrations via UDP
CSCvd84851	Unable to apply Service-Policy with NBAR Protocol Pack 28.0.0
CSCvd72530	ASR1k configured as PxTR crashes when booted with 16.5.1 image at LISP fwd background process
CSCvd97511	Tc learning failure due to wrong index for the prefix in site prefix database.
CSCvd47567	Unexpected reboot with NAT and Multicast configured
CSCvd99555	AAA Acct sessions memory held up for LMA bindings even after cleanup

Caveat ID Number	Description
CSCve31547	ICMP Time exceed dropped due to uRPF on the MPLS PE (per-ce label) [PE-CE is eBGP]
CSCvd03170	MRCpv2 response fails with NULL string in middle of packet
CSCve19361	681985688 - CPP ucode crashes at ESP20 / 16.03.02
CSCve05033	CLI to disable PFR branch to branch PFR optimizations
CSCve52769	config WAN intf msg truncated because of incorrect msg template
CSCvd41270	Crash on IWAN Hub when TC is uncontrolled and current channel is present
CSCve98696	Interoperability issue of 16.3.4 with other releases
CSCve86613	IOSXE-RP Punt Service Process crash @ __be_fmm_flow_int_table_entry_compare
CSCvd39499	iWAN Border Router not connecting with Hub Transit MC
CSCvc20201	Learning site-prefix from RIB
CSCvd36813	Memory Leak due to cent_rt_eigrp_nh_convert
CSCvd29705	PfR Monitoring do not display VRF101 data and reports FVRF incorrectly
CSCvb52132	PfRv3 Should Monitor Internet Channel Reachability
CSCve61713	PfRv3: Crash in Route-Control Process
CSCve14782	PfRv3: Crash Observed While Checking/Modifying Channel Prefixes
CSCvd78519	PfRv3: Crash While Updating/Deleting Parent-Route Reference
CSCve43611	PfRv3: Multiple TCAs Logged Simultaneously May Lead to Crash
CSCvd78769	PfRv3: Site-Prefix Publishing May Fail In Certain Scenarios
CSCvd76671	show ip route overrides pfr does not work correctly with 16.3.3 CCO
CSCve80719	Site-prefix learning: Prefix withdrawal not working for hub-> branch on 16.6
CSCve92511	Site-prefix of Peer BR is not synchronized after shut/no shut BR border
CSCvd29302	Status up / down needs to be clarified in route-import output
CSCuv87206	The clock-rate matrix should be zeorized to dynamic payload types
CSCva70115	ISR4331 crash due to NHRP running 03.16.03.S
CSCvd60596	Mandatory lookup yields a path in another cloud
CSCve45486	NHRP registration request non-compulsory experimental extension gets dropped
CSCvb64727	"no ntp allow mode control" does not seem to be working

Caveat ID Number	Description
CSCve45461	After disabling NTP device drops all mode 6 NTP packets due to 'MODE_CONTROL ratecontrol'
CSCva38391	CVE-2016-1550: NTP security against buffer comparison timing attacks
CSCuz92785	Evaluation of all for NTP June 2016
CSCvc23569	Evaluation of all for NTP November 2016
CSCvb58392	Evaluation of NTP Trap Vulnerabilities
CSCvb46984	Leap second is being set in spite of leap ignore being configured
CSCvc65670	NTP leap second addition/deletion for consecutive leap months not working properly
CSCvc75440	MFI_LABEL_BROKER-3-INVALID_PARAM Traceback message on change of unnumbered to numbered IP address
CSCvc19234	Old Constrained Node Sid not getting deleted from MPLS forwarding table on changing SID
CSCvd34128	On unshutting one of the ECMP link, packets starts putting to ROUTING THROTTLE Q due to INCOMP ADJ.
CSCvd27968	OSPF allocates extra size when sending HELLO's with cryptographic authentication enabled.
CSCva86165	OSPF distance command does not work for newly added entries in ACL
CSCve05936	OSPF FRR: repair path programming in FRR is wrong when we unconfigure L2 medium p2p from the i/f.
CSCve14426	OSPF IPFRR: cost of Ext2 external route repair path is wrong when node protection is enabled
CSCvd28737	OSPF IPFRR: default policy not applied when all configured tiebreak policies are deleted
CSCvc93519	OSPF P-adj: segmentation fault in OSPF, when we unconfigure the IP address and ospf parameters.
CSCvc50770	OSPF p-adj: show tech ospf does not show the "show protected-adj" command.
CSCvc84110	OSPF P-ADJ: When protection disabled and enabled, p-adj sid comes up with repair path.
CSCvd28411	OSPF P-ADJ: When SR is disabled and re-enabled on NBR, p-adj sids are created without repair path.
CSCve18476	OSPF PADJ: p-adj sid is not getting created when OSPF route becomes best route in RIBv4.
CSCve00964	OSPF retransmit behaviour issues

Caveat ID Number	Description
CSCva74756	OSPF Rogue LSA with maximum sequence number vulnerability
CSCvd08433	OSPF SR ADJ: When i/f changed from unnumbered to numbered, MFI_LABEL_BROKER-3-INVALID_PARAM error
CSCvd22538	OSPF SR: When intra prefix is changed to inter prefix, the prefix resolution happening wrongly.
CSCvd04000	OSPF SR: When the neighbor is not SR enabled, OSPF should not install SR label path for nbr prefix.
CSCvc12420	OSPF SRTE: CSTR path is not installed in some cases properly.
CSCvc93491	OSPF SRTE: Once nsr is enabled, OSPF does not provide TE parameters to standby SRTE process.
CSCvc31353	OSPF SRTE: prefix resolution when more than 4 ECMP paths is not provided properly to SRTE.
CSCvc63458	OSPF SRTE: with multi area adjacency, the tunnels not coming up to the multi area instance.
CSCvd34432	OSPF SRTE; When SRTE tunnel changed to RSVP TE tunnel with forwarding adja, links not advt by OSPF.
CSCvd48206	OSPF TILFA SCALE: On reopt or clearing OSPF process, no. of protected prefixes goes down drastically
CSCvd73491	OSPF TILFA SCALE: with 2K Inter-area Prefix Scale, some non-ECMP routes are not getting protected
CSCvc85129	OSPF TILFA: inter-route withdrawn, no repair path for Ext2 computed
CSCvc81881	OSPF TILFA: Micro-loop avoidance is not enabled by default when TI-LFA is enabled
CSCvc71872	OSPF: IPFRR repair path computation stopped after receiving type 10 opaque EPL lsa.
CSCvc59255	OSPF: mapping server entries used after route replaced in RIB.
CSCvd40276	OSPF: Not able to remove ospfv3 config under Virtual-Template
CSCvd38714	OSPF: When anycast present in two areas, when one area is removed, rout not getting installed in RIB
CSCvb62808	TILFA : repair path not created for NSSA learnt external routes.
CSCvb72898	Crash seen in c5930 and c5940 during manet test
CSCve14080	Error message "LID: Handle 0x0 is invalid" filling console logs
CSCvc78398	3.18.1.SP modem/s stuck in reject(pk) with PKI-3-CERTIFICATE_INVALID log message

Caveat ID Number	Description
CSCvb96706	Client auth and enroll to subca fails
CSCvd67254	Crash during CRL fetch failure
CSCvd58884	During PKI enrollment, Cisco router rejects CA/RA reply containing HTTP 500 "Internal Server Error"
CSCvd38619	EST client pki authentication request goes out to default URL always
CSCve29882	EST client pki simpleenroll request goes out to default URL always
CSCvc23928	IOS PKI: Traceback in PKI component during TCL script validation
CSCvb21484	PATH validation for Trustpoint configured with Enrollment via SCEP
CSCvd69749	PKI Server: "Rollover RA Certificate" Becomes "Rollover ID Certificate" After Reload of Router
CSCvd67772	PKI unable to enable PKI debugs immediately after system boot
CSCvc55197	MTU of the PPPoE Dialer interface resets to 1492 while doing any change in the MTU config
CSCve56006	FIB has extra prefix when BGP and OSPF receive the same route
CSCva31708	SR:RSP2:Object download failure(EOS object)error seen randomly
CSCuy08656	SNMP Traps leading a leak in CHUNK functions
CSCve80821	Memory leak in SSLVPN_PROCESS due to VTEMPLATE Background Mgr
CSCvc60745	tcp_getbuffer memory leak - refcount not reduced when packet dropped
CSCve66658	Crash in TN3270E-RT-MIB code
CSCux22473	IPv6 Tracking for route learned from IBGP Neighbor is Down.
CSCve60402	Crash in Voice DNIS SNMP code
CSCvc56866	ISR4xxx router crashed due to voice IVR script - AFW_application_process
CSCvd22910	Hung Transcoder sessions in complex call flows
CSCvd71879	ISR 4451-X crashed with "Segmentation fault(11), Process = DSMP"
CSCve21448	multiple ISR4K VGW's crashed with Segmentation fault(11), Process = DSMP
CSCvd16863	2951 crash due to Null Pointer Dereference
CSCvb97638	CCSIP_SPI_CONTROL memory usage leads to crash - SIP subscribe messages
CSCvc80620	CUBE-161: S3: 639020025: Multiple SIP/SDP Spurious Crashes//2951//15.5(1)T3
CSCve43933	media activity drops calls on hold if RTP/all receive criteria is configured

Caveat ID Number	Description
CSCva22819	Processor pool leak due to CCSIP_SPI_CONTROL
CSCvf16345	HTTP client source interface bind does not apply to virtual interfaces
CSCvd20533	MRCP - DTMF issue
CSCue04085	VXML gateway crash playing mixture of g711 & g729 prompts
CSCuy68013	Switch crashed after add "ip wccp 61 global" command during traffic
CSCve71674	WCCP bypassed packets dropped by ACL on WAN interface
CSCve69605	C897VAGW-LTE-GAEK9 crash with 15.6(3)M2
CSCva90738	Eagle 5, 6: Using Cell 1 0 FW upgrades Cell 0/0 modem
CSCve28605	UA: BOLT: 819gw-7430: Traceback and router crash with mpdn cli

Open Bugs—Cisco IOS Release 15.6(3)M3

Table 13: Open Bugs—Cisco IOS Release 15.6(3)M3

Caveat ID Number	Description
CSCtq80074	Crash seen @ trigger_auth_command
CSCvf25433	Crash after reconfiguring 'login quiet-mode access-class' or 'login block-for'
CSCvf23485	DS: Increase the size of command and prompt strings
CSCve27445	memory leak due to CDP enabled on tunnel(ipsec)
CSCvb49139	CGNA: Lack of input sanitization during memory allocation
CSCvb49055	CGNA: Not able to apply config when there is only Cellular interface
CSCvf06042	Telnet is possible via CGR2010 IP + ESM Port
CSCve53195	Calls headed towards CUCM failing if ESRST is configured
CSCve11792	CME GUI changes for 11.6 release
CSCvb48181	CME rejects SIP phone when joining conference with 403
CSCvf07153	Date header format not in GMT format on 15.6(3)M2
CSCve91506	Date SIP header in CME is empty
CSCve94032	Router crash @ SkinnyAddMediaMohClient
CSCvf16374	CME SNR Does not get ringback for PRI calls

Caveat ID Number	Description
CSCvf07439	GETVPN ISM egress QoS is not marking for non encrypted traffic
CSCve91741	ISM crashes when brought up as HSRP active router.
CSCvf04110	ISR Router Crashes When Handling IPSEC Fragments, Bus Error at Address 0x20
CSCvfl1040	Traceback: Bad refcount in retparticle
CSCvf03912	I/O Leak in middle buffer from SNMP Polls
CSCvf30176	Memory leak in small buffer due to multicast traffic.
CSCve86017	Router getting hang after reload when using static NAT
CSCvd80837	Crash observed in DHCP SIP
CSCvc75104	Packets are intermittently dropped with dialer aaa
CSCuv64748	'clear plat cond all' not clearing DSA debug sub modes previously set
CSCvc80033	unplug cable or shut interface trigger EIGRP loop to crash router over LISP with tunnels.
CSCuu76493	Cisco IOS and IOS XE Software EnergyWise Denial of Service Vulnerabilities
CSCvd64670	SCEP enrollment failing with HTTP/1.1 500 Internal Error
CSCvfl1181	3925 crash at be_fw_dp_sccp_handle
CSCvd64575	command sh run caused router to pause passing traffic 1 to 2 seconds.
CSCve39759	Memory leak under Chunk Manager / Firewall State
CSCvf21090	Box to Box NAT / GARP not sent by the Primary Router after taking the Active role
CSCvc61899	static route is not getting redistributed into RIP database
CSCve26970	CUBE does not do session refresh while in mid call signalling passthru mode (3945/15.6(2)T)
CSCvb47928	CUBE is stripping "Session-Expire" header
CSCve21725	CUBE no DTMF after transfer to UCCX when midcall-signaling passthru media-change
CSCve64645	CUBE replaces G723 with G729
CSCve75919	In-dialog options ping received post ACK (call completion) cause cube to change codec and no audio
CSCve78038	IKE_INIT is sent before PPPoE dialer obtains its IP address
CSCvd74953	IKEv2 IETF Frag: IPV6 Ikev2 incorrect Frag MTU used when set to default
CSCvc97368	IKEv2 IETF Frag: Tunnel negotiation fails in IKE AUTH with lower value of MTU

Caveat ID Number	Description
CSCve23558	After a hard reset of IR829, containers are not reachable from GOS
CSCvf29206	Cisco 3945 sending Link Down trap incorrectly
CSCva22757	ISDN Datetime message CLI
CSCva64578	819 advertises MACs learned from AP802 back to AP802
CSCvf20619	C841M 4g dongle becomes unable to forward packets
CSCvf23339	Communication through Serial port not going through RTS down
CSCvc39563	ISR 8xx - High CPU Due to "Async write proc" During Hung Filesystem Operation
CSCug37708	Router allows external connections to Embedded, SM, etherswich modules
CSCva42524	%SMC-2-BAD_ID_HW: Failed Identification Test in 0/-1/-1 [7/0] in logs
CSCuz69459	HWIC-4T with hardware reversion have ping loss.
CSCva44461	ISR: PCIe bus error crash
CSCva20682	VWIC3:Line protocol goes down with a config of Sha-512 & ping > MTU size
CSCve93263	Chunk Corruption Crash with MACE Configured
CSCvb84068	igmp ssm-map in VRF does not use the VRF name-server
CSCvf29238	VXML GW is unable to populate the MRCP V2 headers based on child VXML documents
CSCve83704	A host translated to an IP via Dynamic 1-1 NAT, is not being mapped to another IP
CSCvd87882	Route-map for static nat statement gets removed by itself
CSCuw29957	NBAR: export sys call is not protected from export of length 0
CSCvf02356	ASR1002-X Router crashed on 'Parent still holding tunnel subblocks after delete'
CSCvc90777	Modifying "logging queue-limit" may result in unexpected reset
CSCvf05494	Traffic shaping not working with percent command
CSCty22416	Machine Check Exception due to bus errors should generate crashinfo
CSCva93104	Auto ip sla probes tags doesn't work
CSCvb59747	Half duplex path streams (MoH) not established with source filter
CSCvc44167	show dial-peer voice summary not showing server groups
CSCvf12692	CUBE HA w/multitenant not processing OPTIONS
CSCvc62742	Preventive fix for crash in AFW DataList

Caveat ID Number	Description
CSCvf15770	Cisco 891 crashed while memory allocation
CSCva35150	Media loop detection failure
CSCvf26916	RTCP/RTP based Media Inactivity timers for MGCP GW do not work in newer releases
CSCvc20059	show voice saf dnDb all output is not correct
CSCvc19168	Audio stream is lost from Gateway once it receives mid-call Re-invite CUCM
CSCvc78537	Compiler throws length warning in sip_issu.c
CSCvc71631	SCB Memory leak reported in the CCSIP_SPI_CONTROL process
CSCva96583	PRP duplication remove weakness against introduced delay/jitter
CSCvd36458	UA_C819G: Mpdn Reverse Telnet Fails When Interface Cellular0 is Active
CSCvc52506	TCP stuck in CLOSEWAIT when using X25 PVC RBP

Resolved Bugs—Cisco IOS Release 15.6(3)M2

Caveat ID Number	Description
CSCvc42499	Function radius_message_authenticator_decode
CSCvc70492	Rework of CSCuz48415
CSCvc77706	[DT]Crash observed while sending ANCP port up
CSCvc42717	Autonomic Networking Infrastructure Registrar Device Reload
CSCva25965	Router may crash after multiple show ip bgp sum/neighbor
CSCuz38651	CBR8 : IPv6 CPE become unpingable after ND resolution fails
CSCvc65463	In ISRG2, ZBFW default zone does not work for sub-interface.
CSCvc61636	ISR2 crashes due to Align-fatal when using ISM-VPN module.
CSCvb51764	ESP-NULL with ikev2 doesn't pass traffic on 881 with crypto engine accelerator on
CSCvc65589	Old DHCP Default Route gets re-added to the RIB along with new Default Route
CSCvc61913	Random IP addresses are seen in running-configuration when set "ip host additional"
CSCvb46106	Router crash when removing EzPM configs
CSCuz25390	IP tunnel inconsistencies cause memory corruption, crash
CSCuz73680	CUBE fails to route calls with overlap interface IP+dialpeer IP multiVRF

Caveat ID Number	Description
CSCvc34235	"crypto ipsec fragmentation before-encryption" command disappears after reload
CSCvb08960	ezvpn client config disappears from dialer int when pppoe session flaps
CSCvb70426	GETVPN: crash due to unexpected exception to CPU during Reg/Rekey policies from KS
CSCvc09368	Crash at update of context nhrp
CSCva76443	Crash in Crypto IKEv2 process
CSCvb75167	Crash in Crypto IKEv2 process for IR829
CSCvc59750	IKEv2 Aggregate-auth Timing Issue
CSCvb29204	BenignCertain on IOS and IOS-XE
CSCuz15131	dqueue not empty prior to destruction crashes ipv4fib_les_switch_wrapper
CSCvc62518	ASR 903 - Crash on "BGP Open" Process During IPv6 ND Cache Lookup
CSCvd16505	IR829: Router unexpectedly shuts down after some period of operation
CSCvc01398	4 byte garbage in packets bridged from VDSL
CSCvc03651	SSH / Telnet / Console freezes while bringing up PMIPv6 tunnel interface
CSCvb88373	MRCP V2 logging tag support
CSCvb91885	Custom App TC marked with two DSCP values
CSCvd01488	Running command "show policy-map interface" or "show tech nbar" can cause crash
CSCux96341	3945 crash on flapping tunnels with traffic
CSCvc37983	4431 crashes with IWAN configuration showing CENT-BR-0 mallocs
CSCvb18256	PfRv3 Channels Not Deleted Once TC is Removed
CSCvb55519	PfRv3: Internet TC Not Created Due to Site-ID Timing Out
CSCvb00272	OSPFv3 IPSEC socket session is not coming up after reboot
CSCuz22162	Digital certificates does not sync to standby
CSCvb73018	PKI: Cannot import RSA SubCA signed by ECDSA
CSCva17234	roll over to new certificate triggers "Crypto CA" to crash
CSCum64244	CSR Mobile client's Radius auth failure triggers crash
CSCvb27784	Router crashes when running the csim start command
CSCvc49737	Transcoders in ISR4451 can't open the media port

Caveat ID Number	Description
CSCvd15073	GW may crash at mc_waitq_unlink
CSCvc86595	HTTP 304 response causes mc error and bad magic
CSCvc19209	SIP session between VXML GW and the Nuance server remains active after callback (CCB) is scheduled
CSCvc70614	VXML GW IVR memory - active queue hold memory when clean http cache
CSCvc64275	VXML GW IVR memory get negative number if memory usage exceed configured value

Resolved Bugs—Cisco IOS Release 15.6(3)M1

Table 14: Resolved Bugs—Cisco IOS Release 15.6(3)M1

Caveat ID Number	Description
CSCvb63245	Show aaa servers command results in crash due to SSH process stacklow
CSCva24325	NSF/SSO feature not honouring TCP MSS
CSCuz61536	CGR1240 : GPS LED not work
CSCvb10757	CGR1240: Gig2/1 and Gig2/2 LEDs got mixed up while using SFP
CSCuz33789	Wifi LED doesn't turn on in CGR1000 router with IOS
CSCuz52529	Evaluation of cgr1000 for OpenSSL May 2016
CSCva12766	Memory corruption, crash from Cavium GE driver on CGR 2010
CSCvb00288	CME No ringback after blind transfer
CSCuz87695	SCCP Phones on CME not forwarding video packets on outbound calls
CSCva14170	+ Dialing not work in SRST with overlap signal for sccp phones
CSCvb14350	7861 - Adding speed-dial on button 16 causes loss of blf-speed-dial keys
CSCva08774	Call unpark doesnot work when translation profile is applied.
CSCva65425	IOS does not consider rule set containing translation and reject rule
CSCuy84435	shared line SIP-SCCP not working on ESRST gateway
CSCva46047	SIP phones shows 1 hour time delay when summer time is configured
CSCuz96364	IPV4 address negotiated by the aggregator not installed
CSCva14742	VRF Routes sent via DHCP do not appear in RIB after reload

Caveat ID Number	Description
CSCvb72052	Crash: STACKLOW crash while configuring mDNS
CSCva39516	EIGRP /30 Serial Point-to-Point Subnet Not Advertised upon Link Flaps
CSCux41072	EIGRP sending hello messages with interface in passive mode.
CSCvb35836	2921: "ethernet lmi ce" is configured by default
CSCva72881	crash due to Auth-proxy HTTP daemon process failing
CSCva50683	"CWS Telemetry Process" Crash on Whitelist Upgrade With CSCup94022 Fix
CSCva75774	CWS/ISR 1900 15.5(3)M1 whitelist download enable stops updating
CSCvb50917	ingress ping results in packet loss if not using a large size packet
CSCuz32027	RIP is accepting the packets even if its not from RIP port
CSCvb64704	C3900 in CUBE B2B HA setup, standby crash under voip traffic
CSCuz46782	CUBE - No audio for DO-EO FA when PRACK enabled on incoming call leg
CSCva55916	CUBE crash in resolve_sig_ip_address_to_bind NULL ccb
CSCva70943	CUBE DTMF p-type does not adhere to the signaling
CSCuz74014	CUBE responds 500 Internal Server Error to received= instead of via
CSCuz71250	Router crashes when parsing ack for mid call
CSCvb29204	BenignCertain on IOS and IOS-XE
CSCuz59190	GOS contains an outdated, vulnerable version of the OpenSSH server
CSCuz62775	ir892 Bundle install fails with SSH source interface configured
CSCva21638	issue in show isis nei detail
CSCvb53347	C841M PPP LED turns off even if one PPP up session exists
CSCvb39648	Fa0 port shows at C899G platform
CSCva79876	"Show controller VDSL 0" output is hanged with VDSL2-LINE-MIB
CSCva63462	only ipbasek9 not shaping on 15.5(3)M3
CSCva97725	rj45-auto-detect-polarity enable/disable behavior and shut/noshut timing
CSCva30241	[Firebee-to-WAN IGMP Snoop] Ports fwd traffic though there are no revers
CSCva46723	Small buffers leak with PPP
CSCvb08828	"no ip routing" + "&"ip default-gateway" config issue on C888-K9 device
CSCva60405	ALIGN-3-SPURIOUS Errors due to ATM OAM

Caveat ID Number	Description
CSCva96491	ATM config lost due to nbar
CSCvb71086	CWS + NVI NAT not working for web traffic
CSCvb36740	NIGHTLY Build FAILED for 15.6T (t_base_6)
CSCuz98690	IWAN auto-tunnel - incomplete adjacencies on ISR G2
CSCvb60498	Need to support SSMO Label format as per 3GPP TS 23.003/RFC 5149bis
CSCva32123	ALIGN-3-TRACE during boot on ISR-G2
CSCva36329	PAT entry using the same port which is configured for static NAT
CSCva19043	incorrect statistics regarding bandwidth utilization at each BR
CSCvb48912	SNMP crashes getting ntpAssociationEntry with low/fragmented memory condition
CSCuz77746	16.3 throttle: serial interface goes down after enabling ppp
CSCuy70502	show memory summary includes garbled characters
CSCva83993	Cisco SIP Gateway adds port 5060 to contact header in response
CSCuz10760	SIP SRST phone registration issues.
CSCvb60417	Router actin as HPR/SNA node crash every 2 hours
CSCva77149	Router crash when polling NOTIFICATION-LOG-MIB
CSCvb03342	IOS SSL VPN stuck reverse route blackholing IKEv2 connections
CSCva34598	Down change delay expired of track, without counting delay down time
CSCuz53590	Router crashes when trying to assign an bridge-goup
CSCva64393	CUBE e164-pattern-map doesn't parse the last line of the config file
CSCva22889	SWMTP route T.38 UDPTL Seq=65,72-79=RTP_Payload to (RTP UDP+1)=RTCP port
CSCvb58179	add new cas-custom CLI clear-bwd-in-seize for E1-R2
CSCva34382	Caller continue to hear ringback tone even after agent answers call.
CSCva00551	Cisco Router may crash on SIP MA Process Due to sstrncpy()
CSCvb16274	PPTP Start-Control-Connection-Reply packet leaks router memory contents
CSCva08727	WebUI: Tacacs not sending username with command authz/acct
CSCvb54653	Incoming SMS not showing syslog messages IOS 15.6(2)T
CSCvb61277	Add recovery mechanism in Linux_app to auto recover

Resolved Bugs—Cisco IOS Release 15.6(3)M0a

This is a special release in Cisco IOS software that addresses Cisco Product Security Incident Response Team (PSIRT) caveats.

Table 15: Resolved Bugs—Cisco IOS Release 15.6(3)M0a

Caveat ID Number	Description
CSCvb29204	BenignCertain on IOS and IOS-XE

Resolved Bugs—Cisco IOS Release 15.6(3)M

Table 16: Resolved Bugs—Cisco IOS Release 15.6(3)M

Identifier	Description
CSCux26195	'aaa accounting suppress null-username' not working as expected
CSCuz48415	'aaa authentication suppress null-username' not working as expected
CSCux98870	Alpha: global radius source interface not working with startup config
CSCuw37292	ASR1k : 3.13.3 crashes due to segfault caused by aaa attributes
CSCuy32360	Crash after Quiet mode is triggered with login block-for configured
CSCuy21675	Crash@username_command with service pwd-encryption & common-criteria cfg
CSCuy46133	IOS-XE unable to parse automate-tester cmd after save, gone after reload
CSCuz60599	ISR router crash when using secure login with %SYS-2-CHUNKBADREFCOUNT
CSCux69225	Mac filtering option 'None' sends blank password
CSCuy01051	MPLS VPN over mGRE Routing issue after reload
CSCuz04324	radius-server vsa send authentication lost after reload
CSCuz82218	TACACS Enable authentication fails with null pre shared key
CSCuw89522	ASR IOSD crash because of AVC feature
CSCux50997	IOS crashes on bootup without any startup configuration
CSCuv01168	SPA-2XCT3/DS0 controller is not coming up on fresh reboot.
CSCuy50465	Logging persistent may lead to IOS image corruption on the flash
CSCuu61539	AN: 'autonomic adjacency-discovery' not working on physical interface.
CSCuy04454	AN: 'autonomic connect' interface is not in AN VRF after int reconf.

Identifier	Description
CSCuy40641	AN: AN ACP tunnel keepalive is not working
CSCuy02477	AN: AN creating channel in autonomic connect interface
CSCux26863	AN: ANR should support syncing accepted DB from redundant ANR in domain
CSCuu12394	AN: Config download is not triggered when reloaded without saving config
CSCux15053	AN: Config server address not getting removed after withdrawing service
CSCuy84907	AN: CPU hog & crash during bootstrap
CSCuz50338	AN: Crash during bootstrap at hwidb_iftype_unlist
CSCuy87056	AN: Device receives & keeps multiple certificates
CSCuy42632	AN: DIKE session is not getting READY after shut/no shut
CSCuz76841	AN: ISR-G3 crashes after disabling autonomic
CSCuy35619	AN: Last Refreshed time in sh an nbr det prints wrong values sometimes
CSCuy41049	AN: Multiple CD channels getting created on same int for same neighbor
CSCuw81472	AN: Need to increase max NTP association for scale setups
CSCuy86757	AN: NTP not syncing in recent images
CSCuy08030	AN: sh an int output prints Probing for AN disabled int
CSCuz64125	AN: ZTB on Whales fails intermittently
CSCux67975	AIGP for next-hop BGP route is not being used or its not deterministic
CSCuy03054	ASR1K IOSd may crash in BGP Acceptor process due to segmentation fault
CSCux55351	ASR1K router crashed due to running BGP with AIGP
CSCux06508	ASR1K: after unconfig MPLS VPN, can NOT config OTV. MPLS still there.
CSCuw92735	BGP multicast signalling is not working properly, Error: c-route type 7
CSCuz05346	BGP needs to recognize 4-byte private ASN
CSCuy75291	BGP route is imported but is not installed in destination VRF RIB
CSCux70093	BGP RR does not advertise vpnv6 prefixes even all RT filters are learnt
CSCux97040	BGP: default RT filter flag not reset when <clear ip bgp > executed
CSCuy24258	Bulk sync failure with 'bgp ha-mode sso prefer'
CSCux37608	can't nvgen restart-time without config bgp graceful-restart
CSCuy20481	Crash due to stale pointer after removing vrf command export AF map

Identifier	Description
CSCuz53169	Cross-table imported prefixes not deleted when source table is cleared
CSCux76332	Deleting a statement in export map, removes other statement
CSCux91976	gateway route with AIGP metric only works for host route without supernet
CSCux96029	GR Non-restarting peer does not advertise VPN routes default RT filter
CSCuy03504	Incorrect prefix count upon clearing bgp peering
CSCuz21120	IR:%BGP-6-MALFORMEDATTR: Wrong length 1 for COMMUNITY attribute seen
CSCuz21061	ISR G2 router crashes after %BGP-6-BIGCHUNK + SNMP query.
CSCux18285	prefix is not redistributed into BGP if 'neighbor backdoor' exists
CSCux62094	Routes are not exported from vrf to global due to incorrect export limit
CSCux47208	routing loop when using iBGP between PE-CE with BGP PIC enabled
CSCuw99632	SUP crash @process bgp router when configure ng-mvpn
CSCuy40894	VPN routes may miss withdraws with RTC post route to peer disturbance
CSCum87883	XE312 TB@be_ip_route_update while changing BGP config
CSCux62751	Memory leak seen @ dup_classmap_runtime
CSCuz33080	Qos registry relocation changes for UP improvement
CSCva30367	Qos registry relocation changes for UP improvement
CSCuy12658	Unexpected behavior and errors related to downstream voice flows on cBR8
CSCuz83800	Barramundi C5921 unable to launch in Microsoft Surface Pro 4 machine
CSCuy31565	BIA address is not taking the NIC mac address in c5921
CSCuy33157	C5921 crashes when access point disabled.
CSCuy87412	c5921 not getting stopped using the script
CSCuy44757	c5921 support for VTY 5-15
CSCuy35558	L2 firewall not working on c5921 platform
CSCva48575	MTU value is different in Show platform software interface-status cmd
CSCuy90815	Need to update the documentation of readme file in c5921 IOS router
CSCuz28726	Ping is not working in C5921 between BVI interface and virtual switch
CSCuy98542	SNMP Engine ID is not pulling interface Mac address in c5921
CSCuy90036	Hostname not allowed beginning with numbers

Identifier	Description
CSCuy27746	CDP packet causes switch to crash due unexpected exception to CPUvector
CSCuz74951	VTP domain name tlv is not included in cdp packet
CSCuw57474	CME Memory chunk Leak
CSCuz39324	Localization:Junk character and " at the end of Night service phrases.
CSCuy95038	Router crashed due to skinny MOH
CSCuz02065	CME 11 generates incorrect timezone files for BuiltIn Support SIP Phones
CSCuy61296	polaris: 16.2 throttle: Memory leaks @ IsVoiceHuntGrpSIPLocalDN
CSCuy84435	shared line SIP-SCCP not working on ESRST gateway
CSCuy53662	SIP CME is not updating busy-trigger-per-button value
CSCux75400	TDOS and silent-discard are impacting SIP SRST Phone Registration
CSCut64219	Crash in IOS internals. ISM module on ISR G2
CSCuv01607	Invalid spi, Attempt to use contiguous buffer as scattered, Full queue
CSCuy22028	ISR router crash with I/O corruption within reventon handler
CSCux20978	VPN-ISM: IPSEC tunnel gets stuck
CSCut63901	Incorrect crypto engine statistics for common crypto packet drops
CSCuw02624	IOS:Cannot periodically establish SSL connection
CSCux47123	Polaris: In FIPS mode, router should crash if it can not get HW entropy
CSCuy33802	Crash after the CWMP config download
CSCux47834	DHCP server crashed when updating DDNS entries
CSCuz11949	DDR does not roll over to alternative string.
CSCuz28173	C886VAGLTE: SNMP MIB sysObjectID Value is Incorrect
CSCuz68075	adding IPv6 DNS server or forwarder to DNS view error
CSCuo95144	DNS passing wrong Table ID to IPV6 lookup table
CSCuy29071	stacklow crash while configuring mDNS
CSCuu15851	DHCP relay does not work for 2nd authenticated host on multi-auth port
CSCut49912	Incoming packets from VDSL link discarded under high load
CSCuy04058	ISR-4K IOS CFB resources get into hung state (inactive)
CSCuz62786	ISR4K sccp based transcoding hanging dsp-session_leg on data-plane

Identifier	Description
CSCux82241	\$\$TS: EIGRP SAF sequence not same for site-prefix and discovered site
CSCux92391	\$\$TS: SAF service 5 is not seen on 3945e branch after HUB MC reload
CSCuw67327	EIGRP route is recognized as stale and deleted
CSCuw14901	EIGRP topology table empty after VSS switchover
CSCuz81900	FlexVPN IPs stale in one EIGRP Topology table when redistributed on HUB
CSCuv85472	SR 635576687 6500 EIGRP VRF MD5 AUTHENTICATION ERROR AFTER RELOAD
CSCut37529	Several traceback @ intr_stat_snapshot_and_process about ACFE
CSCuv74256	IOS: HMAC key miscalculated with DH Group 21 and IPSec PFS enabled
CSCuz56699	ISR 4k Paging over SIP / FXS phones have no audio
CSCuz39061	'logging filter ...tcl' config crashes the router
CSCux99594	EEM Policies May Not Be Able To Send Email
CSCux99405	SNMP Notification Policies Are Not Triggered With IPv6
CSCux68976	Crash in fib_fib_get_fib_tableid
CSCux06777	Device crash with RPF configured.
CSCuz81292	IPv6 neighbor discovery packet processing behavior
CSCux91174	FNF: add show tech fnf
CSCuz48325	XE318SP - Memory leaks are observed after running cosmark suite
CSCuv27265	ENH: Enable support for TLSv1.1 & TLSv1.2 for http secure server/client
CSCuz25135	ciscoFlashPartitionName adds comma between partition name and its index
CSCuy54477	Evaluation of cgr1000 for OpenSSL March 2016
CSCuy87957	ZBFW crash when inspecting protocol h323-annexe
CSCuo42832	IPS: Crash @ ips_dp_feature_action_internal with IPS,ZBFW,Scansafe ,NAT
CSCux59590	DNS resolution fails for CWS towers on an ISR when FQDN TTL > 300 secs
CSCuy91409	ISR897VA // NBAR PP 16 changes Matched Protocols on ZBPF Class-Maps
CSCuz21015	ZBF allows return traffic for egress action of pass with one zone-pair
CSCuu77403	%LINK-4-TOOBIG Messages Seen on ISR 3945 with L2TPv3
CSCuy38707	After RSP switchover, BFD hangs for up to 10 minutes before converging
CSCuw48118	ASR920 - crash in bcopy called from 'addnew' during reassembly

Identifier	Description
CSCuz96051	the route in which next hop is tunnel0 will disappear after the restart
CSCuz12967	Crash after show ip protocols vrf with RIP enabled
CSCux39969	Redistribution 0.0.0.0/x to RIP doesn't work after clear ip route *
CSCuv86229	Interrupt stack overrun and crash due to recursive tunnel lookup, Part 2
CSCuz41999	Optimizing the EoGRE endpoint creation/deletion
CSCuz69502	Uprev t_base_6 to contain cfc_cefmppls@rel22
CSCuz71535	3945 CUBE crash when 302 is received without user part
CSCuz07185	CDR field 71 (remote-media-address string) is 0.0.0.0
CSCuy21885	Changing 'no monitor event-trace voip ccsip limit' to default limit
CSCuy48358	Crash during SIP subscribe notify ACK
CSCuy96064	Crash seen under load in CVP REFER_MIDCALL BLOCK scenario
CSCuz91476	CUBE crashed if Invite receive with Replcaes and missing User in FromTag
CSCux73693	Cube doesn't handle notify 200 ok if it is received after the bye
CSCuz64285	Cube fails to send the SIP Error code response
CSCuy33237	CUBE not triggering reinvite during call resume
CSCuz24493	CUBE sends Via header in incorrect format for IPv6 forked calls
CSCuy08799	CUBE should negotiate for crypto suite without MKI
CSCux55142	CUBE SIP UPDATE race condition.
CSCux97624	Extra CLI 'session target sip-server' generated under dial-peer
CSCuz14872	IOS Fails to correctly populate RTCP SSRC Field
CSCuy19807	IOS-XE CUBE Hold/Resume Fails when negotiating video
CSCuz06782	Memory leak at ccsip_create_listen_entry when dial-peer bind is removed
CSCuw70011	NanoCUBE stale registration entries with options keepalive
CSCuy40672	One way audio in a DODO call after transfer with REFER disabled
CSCux32585	Random high CPU in CUBE due to AFW application process(3945/14.3(3)M3)
CSCuy31135	rate limit should not be applied for WAN link recover case
CSCuy19738	sh dspfarm profile <id> shows active dsp resource even after call disconnect
CSCuy33804	Traceback seen @resolve_sig_ip_address_to_bind during SRTP calls

Identifier	Description
CSCuz69975	Under load crash is seen in CVP REFER_PASSTHRU scenario
CSCuz81381	Under load crash seen in CVP REFER_MIDCALL_SINGNALING_BLOCK scenario
CSCuy38308	Unhide 'h245 tunnel disable' CLI under 'voice service voip --> h323'
CSCuz42289	User-to-User header consumed by CUBE on 18x messages
CSCuy30957	For IPv6:Activate Under GDOI Fail-Close Disappears on Reboot
CSCuy43118	XE316: HubBR might be crashed@tunnel_protection_validate_shared_profile
CSCtw74492	flexvpn: user authorization should work with local AAA
CSCuw48400	GetVPN GM unable to register or rekey fails - sig-hash > default SHA-1
CSCuy01778	GETVPN KS reload after split and merge
CSCuz14788	New reg invoke PKI function breaks the GETVPN CRL Checking feature
CSCux83732	Pseudotime not being synchronized between GETVPN Key Servers
CSCux25628	Diffie Hellman computation fails due to leak in crypto engine
CSCuy41990	ikev2 2nd time rekey fails when rekey request packet is fragmented
CSCuz17348	IKEv2 lifetime resets to default after reboot
CSCuy55901	Hitting 'Timer is not a leaf' traceback issue for crypto IKMP process
CSCuv31981	ISR Router Crashes When Trying to Delete a Freed SA
CSCuy11858	'%IPV6_INTF-3-MIN_MTU:link MTU is below 1280-byte minimum IPv6 link MTU'
CSCux99250	ASR 903 IPv6 Multicast crashes
CSCut84209	ASR1K 'ipv6 Input' high cpu with ISATAP tunnel
CSCus06318	SNMP IPv6 address discovery with ipAddressTable
CSCuw36170	System will hang if system is power cycled during FPGA image upgrade
CSCuz27769	gateway sends connected name in iso even when ecma is configured
CSCuq91346	Routers crashed when enabling NFAS under the T1 controller
CSCuy89790	ATT flag from SRMS is not honored by ISIS
CSCuw74752	cpu hog and crash in isis_ip_xlfa_pq_ipaddr_usable
CSCuy83787	ISIS authentication problem even 'send-only' is configured
CSCuv26774	ISIS holds routes even after removing interface with config replace
CSCux59649	ISIS lsp-mtu size 128 removes TILFA and rLFA tunnels

Identifier	Description
CSCuw73532	ISIS multitopology not working if neighbor is sending IPv4 address
CSCuz25240	ISIS not installing back to RIB neighbors loopback when interface flaps
CSCux29806	ISIS routes are not not installed in the routing table from isisdatabase
CSCuz30084	ISIS SR: sr-label-preferred should not be required for TI-LFA
CSCuz16455	ISIS SR: Subtract 3 instead of 2 from PD maximum label support for TILFA
CSCuy37025	ISIS: Show ip route shows deleted route as still being advertised, even though it not advertised.
CSCuy81301	mpls forwarding table holds info even after config replace with base cfg
CSCux23571	On RP SSO MPLS TE Tunnel Flaps as ISIS Does Not Advertize Few TLVs
CSCux96625	paths not present under 'show isis fast-reroute remote-lfa tunnels'
CSCuv16074	rLFA : PQ address not selected when PQ node has multiple nexthops
CSCuw97035	RPF fail when default originated from ISIS and egress is te-tunnel
CSCuv45867	SNMP Trap not sent when ISIS peer goes down
CSCuz29591	SRTE: Protection adjacency backup path
CSCuz08440	TE tunnel should not be used for repair path
CSCuz43117	TI-LFA repair path was not created using LAN interface
CSCuz22650	Traceback seen in ISIS when interface shut/no shut happens.
CSCuy12271	Wrong LSP Size Calculation Following MAC Move with OTV
CSCux89502	PPPoE on MLPPP SHDSL links crashes router: packet in free block
CSCuz08643	Cisco841M crash/hang issue is seen when execute 'modem enable' command
CSCuq52347	Invalidate TCAM entry failed ID = 4 log when DACL is downloaded on int
CSCuz67357	NID VLAN config not working on c897VA CPE's for VDSL interface
CSCuz02837	Port is not coming up after reload if CDP is disabled
CSCuz19867	LLDP pkt drop on intf Vlan
CSCuv54418	SGT packets dropped when CTS enabled on dot1q sub-interface w bridging
CSCux95014	No log message displayed when one of the VDSL lines go down on c897VAB
CSCuz34481	Ping via VDSL controller fails in non-bonding mode
CSCux91954	C867 wireless - garbage chars on vty connecting AP
CSCuz70409	HWIC-4ESW randomly stops forwarding multicast streams.

Identifier	Description
CSCuz52427	BVI fails to process IPv6 NA messages without datak9 license ISR
CSCum99304	Confusing CPU Over temp error message on 3900 platforms
CSCuy01416	EHWIC-1GE-SFP-CU on ISR2951: MAC addr is not learned with EVC/BD config
CSCuu90215	Energywise output displays wrong values
CSCuy86574	ISM-VPN-19 and EHWIC-4SHDSL-EA are using tty67 on c1941 causing conflict
CSCut86321	Tx hang on 2951's GigabitEthernet IF
CSCuy43787	EHWIC-1GE-SFP auto media type is not working properly
CSCuw46836	ehwic-1ge-sfp reports HWIC_HOST-1-RX_CRC_ERROR messages after CSCuo71154
CSCuw24061	HWIC-2FE no '%LINK-3-UPDOWN' logs when oir cable or sh/no shu peer port
CSCuz09974	HWIC-4ESW random hang
CSCuz52960	ifHCInBroadcastPkts Decreasing
CSCuz73595	ifInMulticastPkts doesn't count up on vlan interface
CSCuz24325	ifInUcastPkts counter decreased on C892FSP
CSCva16755	junk value reported over SNMP when ambient temp is negative
CSCut34058	Memory Fragment on SM-X-1T3/E3= with Serial Background process
CSCuy23951	Priority Packets Randomly Fall Under Class-Default Over *VWIC*
CSCuy36008	Firmware version displays wrong value in Milpitas C888-K9
CSCuy15551	SM-ES2-24 stops responding after HSRP switchover
CSCux78294	Crash on router when removing L2VPN
CSCux58640	LDP NSR: Label Mapping Messages Not Sent on RP SSO and VCs Re-bind
CSCut45177	CWS HTTPs traffic fails to load on ISR configured with NVI
CSCux86718	%LISP-SW2-4-ASSERT: Internal LISP error (os ios rib ipv4 460)
CSCux68415	ASR1k: lisp instance are not operational with vrf Deletion error
CSCux80338	CEF/LISP traceback after 'ipv6 unicast-routing' before 'ipv6 cef' cfg
CSCuy64412	ISSU:Polaris 16.2 ISO1->ISO2:Traceback@lisp_os_ios_if_handle after RV
CSCuz58940	LISP authentication-key configuration removed on reload
CSCuy49695	LISP crash after deleting site configuration
CSCuy52109	LISP DDT - some packets are failing strong security check

Identifier	Description
CSCuy65618	LISP may put incorrect UDP checksum into control messages
CSCuz19502	LISP MS: 'show lisp site rloc members registrations' crashes router
CSCuz38796	LISP: crash on 'clear lisp site' with debugs enabled
CSCuy43535	LISP: removing dynamic line which doesnt exist errors in pi30 image
CSCuy32696	Traceback after cmd 'redistribute lisp'
CSCuw91797	Traceback@lisp_client_eid_watch_mapping_msg_rcv when unconfiguring LISP
CSCuy90150	PA Export stack overflow causing memory corruption
CSCuz01178	Router crashes at oce_base_explore_chain()
CSCuy03680	V3Lite IGMP packets sent instead of V3 when UDP based feature is present
CSCuy45804	MCAST: PIM issue tracking RP source address
CSCuw02238	CSR1KV, AVC: csr1kv crash when 'show run format' is run
CSCuz23933	Normal cache does not work if producer is pa-async
CSCuw97075	perf-monitor service policy does not with connection initiator commands
CSCuv85705	ISR4k: Large allocations in dheap causing shrinkage intotal IOSd mempool
CSCuy53026	PMIPV6 DMNP Memory leak in LMA
CSCuu95399	show cellular 0/0/0 microcode does not return any value
CSCuy13792	ISR G2 Crash on Quick 4G Tunnel Template MTU and Adjust-MSS Change
CSCuz95908	Memory leak due to path query with Null outgoing interface
CSCuz04378	ICMP Time exceed dropped due to uRPF on the MPLS PE (per-ce label)
CSCux47286	UMMT- ASR903 crashes at fib_chain_remove with periodic toggling of ports
CSCuy45433	PPTP translations are stuck in NAT table after timeout
CSCuz03646	match protocol 'netbios-dgm' CLI not working for c800 NPE images
CSCuy31450	Router crashes after reload with protocol pack auto update config
CSCuy64209	3900 router crashes on enabling PFRV3
CSCuy39229	Border Parent Route not recovered after TAG CLASH
CSCux36086	Duplicate Primary Provider when INET1 configured before INET
CSCuy42200	IOS-XE Watchdog Crash in cent_rpi_route_lookup_n_monitor_start
CSCuz22260	ISR G2: unexpected byte lost with PfrV3 and NBAR based QoS integration

Identifier	Description
CSCuy32099	ISR G2:WAN Intf withdrawn when channels in Init State become unreachable
CSCuz71595	PfRv3 : crash : %ALIGN-1-FATAL: Corrupted program counter
CSCux60466	PfRv3 - CPUHOG pointing to cent event-trace
CSCuv25475	PfRv3 - shut SAF on some specific interface
CSCuy03519	PfRv3 MC Policy name can cause policy advertisement problems to branch
CSCuy01555	PfRv3/MNH - branch to hub channel has wrong nexthop
CSCuy55876	PfRv3: OOP reason may show invalid reason or garbage output
CSCuw57908	show tech iwan does not work properly when ivrf is the default vrf
CSCuz56504	Traffic black-holed on BR after brownout or hard reset on MC
CSCuy71712	FlexVPN: Spoke spawns a virtual access to connect to the hub
CSCux80450	%REGISTRY-3-STUB_CHK_OVERWRITE: error seen during boot up
CSCuu75888	AN: Traceback while removing tunnels after 'no autonomic' with NTP
CSCuy20654	ASR1k reply to NTP broadcast
CSCuz66396	ASR1K: NTP: ntpq not able to retrieve delay/offset/jitter from router
CSCux99025	Evaluation of Cisco IOS and IOS-XE for NTP January 2016
CSCuz24233	NTP process is getting stopped & not able to create server relationship
CSCuu46111	onep: optimize route addition in ART
CSCuy68037	Crash due to IOS watchdog when deleting persistent logging files
CSCuy44377	Syslog: Source-Interface address change doesn't take effect in IPv6
CSCux34700	'ip ospf flood-reduction' does not trigger a new router lsa with DNA Bit
CSCuy04757	Crash@ospfv3_router_process_mgd_timers on shut/no shut of sub-intf
CSCus93777	IOS crash when making config changes while show output is waiting
CSCux97691	IPFRR: Stale flag set in repair path of prefix advtsed by inter and AS
CSCut67137	Memory exhaustion due to OSPFV3 parser view
CSCuu55332	OSPF NSR: Standby Crash on no shut of interface with ip address dhcp
CSCuy95641	OSPF TILFA: intra/inter prefix not protected since loop-free check fails
CSCuy57683	OSPF TILFA: multiple post converg path exists with TILFA in some cases.
CSCuy09196	OSPF TILFA: No repair path for some prefixes hosted on intra-area ASBR

Identifier	Description
CSCuz12438	OSPF TILFA: Node protection path not calculated when ABR is in p-space
CSCuz11268	OSPF TILFA: post convrg flag set on MPLS/SR TE repair path with PrimPath
CSCuz14046	OSPF TILFA: shortest repair path is not selected by LOADSHARE tiebreak
CSCuz16437	OSPF TILFA: Subtract 3 labels instead of 2 from PD maximum label support
CSCuz53434	OSPF TILFA: type-4 node tree node not created for asbr outside the area
CSCux47324	OSPF TILFA: Wrong repair path for intraarea multihomed prefix (anycast)
CSCuv69650	OSPF Virtual-link using the lowest cost path
CSCuy32709	R-LFA Tunnels not established on setting DS required attribute
CSCuy12969	TILFA: False failure in Per-Destination-Q-Space-Check (loop free check)
CSCuy29257	TILFA: repair path for AS ext not calculated correctly when multipl ABR
CSCuy40541	TILFA: tunnels not created when primary-path required tiebreak is in cfg
CSCux19034	XE3.16 crashes when conf 'distribute-list' under router ospf and sh run
CSCuy30908	5940: Router is crashing while launching R2CP session
CSCux29040	Accessing menu options from SSH fails leaving % Too much menu nesting
CSCux75168	IE3010 Creates Extra VLAN Entry under 'show vlan'
CSCum19502	Inconsistent behavior between telnet and ssh in low memory conditions
CSCux82630	show version: system restart time changes by a second periodically
CSCuz76045	'Ctrl TC Message corrupted' messages seen with PfRv2
CSCuy85870	Wrong TD next-hop for overlapping prefixes
CSCuu98319	AN: Disabling AN is not removing crypto pki trust point created by AN
CSCuy33129	G2 routers not able to download Trustpool due to nvram space
CSCuy13701	IOS PKI: Crash while editing a VRF aware TP with enrollment profile
CSCuz39286	Revert back of CSCuy70502 due to breakage in t_base_6
CSCuy70502	show memory summary includes garbled characters
CSCuw11097	ASR one way audio due to incorrect provision by FMAN-RP
CSCuw35544	CGE7,SysBuff exhaust due to conf/unconf qlimit causing fairq qlimit go wild
CSCuy16530	Crash after member link re-added to port-channel and clear counters CMD
CSCux89723	Error when service-policy at sub-interface/pvc/service-group is applied

Identifier	Description
CSCUv56569	incorrect QoS policy on target blocks all subsequent policies
CSCUw97834	Mismatch in Drop and post policy counters pertaining to CLI and SNMP
CSCUy51825	Router crash in udpTrans_socket_get_data
CSCUw16500	both overlapping SRMS entries are both in active policy.
CSCUu01662	Change in isis ipv6 route admin distance does not replicate mcast table
CSCUw50415	Crash seen @ hwidb_iftype_unlist while doing unconfg of channel-group
CSCU81009	EIGRP Redistributes OSPF External routes when config only internal
CSCUu38925	IPV6 hostname resolving issue under (config-ip-sla)#icmp-echo
CSCUw55717	Memleak @ pak_pool_cache_item_get : Scaled TFEX
CSCUm03909	mvpn6 mldp router crash on _be_ipv6_pdb_remove_ipdb_private
CSCUy55849	RTR installs the ISIS(or OSPF) route with Higher Metric in the RIB
CSCUx19960	SR: Traffic loss is seen when SRGB range is set to higher label value
CSCUw01557	SRMS does not send notifications in cases of sid overlap
CSCUy07343	AN : ipv6 global prefixes are seen in the cisco_autonomic vrf table
CSCUw81424	AN: Router crashes in scale hub & spoke setup
CSCUy39110	ESRST voice gateway crash when SCCP phone goes off-hook
CSCUy36412	Evaluation of cgr1000 for glibc_feb_2016
CSCUx83359	COR List tag limit for SIP SRST not consistent with SCCP SRST
CSCUx93752	SRST Double Ringback heard on blind transfer to PSTN
CSCUy86782	AN: SSH to AN ULA though ACP fails, if access list is configure on VTY
CSCUw57124	Cat3750 stack switch memory leak in MallocLite and Dead memory
CSCUy87667	Crash due to Block overrun by AAA banner
CSCUw09694	Device crash when 'ip host' used by an SSH sourced from CLI is removed
CSCUy45630	IOS SSH client incorrectly interprets version string and terminates sess
CSCUy38709	Memory leak with watcher_create_common.
CSCUz65461	ssh server accept unconfigured authentication method
CSCUy34361	SSH V1 periodically crashes when displaying large volumes of data
CSCUx86075	Unexpected crash during SSH operation

Identifier	Description
CSCuy54623	Evaluation of all for OpenSSL March 2016
CSCuz52528	Evaluation of all for OpenSSL May 2016
CSCuy35425	IOS memory leak in SSLVPN
CSCuy94842	Crash on router when using stcapp
CSCux03041	LDP NSR: Session Flaps on Standby RP Due to MD5 Authentication Failure
CSCuu71299	MPLS LDP flap with %TCP-6-BADAUTH: No MD5 digest
CSCuv41355	Unable to telnet -- No wild listener: port 23
CSCuy55764	Abnormal functionality of L2 firewall in c5921
CSCus46844	802.1x 3650 Radius Response not picked up by AAA code
CSCuv77993	IPv6 Address on 802.1Q Interface Not Showing In Show Commands
CSCuy09274	Problem with multicast and multiple VMIs on 5921
CSCux98940	Crash is seen when redundancy is up in overlord_HA setup
CSCuz03079	ISR-4K Processing Error: H323 Setup parameter 'mediaWaitForConnect TRUE'
CSCuz09446	ISR 4K crashed 'test dsp device' cmd
CSCuz62915	ISR4451 crash under load due to Segmentation fault(11), Process = DSMP
CSCuy79096	show call active voice brief crashed router with FLEX DSPRM MAIN
CSCuy65330	RSVP Reservation Failure Causes Call Drop on Voice to Video Calls
CSCuz56429	C2900: MGCP ssrc=0/seq=0 in secure call
CSCux91827	Rework on CSCuv19830 , backed out by CSCux86274
CSCuy14532	rtp/rtcp media activity timer doesn't trigger when only 1 rtp leg drops
CSCuy43633	Voice Gateways - SCCP Early Offer fails with IPv6 enabled.
CSCuz74337	Convert cause value 86 to 16 when using MGCP
CSCuz58660	FXO port stuck with 'Connection plar opx immediate' under CUCM
CSCuz42755	FXS Ports on VG320 registered on CUCM via MGCP stop working after reset
CSCuz38364	High CPU due to corrected parity error in L2C Data Cache at location 0x1
CSCuz20065	needs to discard voip packet for lmr half duplex case in isr4k
CSCuz74156	some Hootie calls are unable to mix the multicast stream after reboot
CSCuy16501	Static noise introduced on FXO after IOS upgrade

Identifier	Description
CSCuy80902	VG320 - voice-port power alarms and loud noise when call is answered
CSCva30483	IOS-XE 4321 Router crash with BRI interface going down
CSCuz92758	ISDN BRI layer stays down after busyout monitor interface comes back up
CSCuy15638	Voice ports are stuck in EM_PARK state in e&m-melcas-delay
CSCuy68921	Crash seen when forwarding of SIP MWI as qsig MWI on ISR4k and ISRG2
CSCuz52693	ISR 4K Memory Holding in CCSIP_SPI_CONTROL
CSCuz90873	ISR crashes in 'CCSIP_TLS_SOCKET' Process
CSCux20199	Re-Invite with (main m line) dead audio stream (port 0) cause FPI hung.
CSCuy82019	SIP UPDATE/Re-INVITE not passed onto forked media(recording) leg by CUBE
CSCuz22409	SIP UPDATE/Re-INVITE not passed to one of the recording legs by CUBE
CSCuz60446	TDM to SIP - Gateway views outgoing SDP content-length size inaccurately
CSCum05146	NAT SIP ALG removes certain media attributes
CSCuy94750	ISR G4 / IOS XE MGCP controlled GW advertise G.723 codec
CSCuy83854	deb voip application vxml with 1 cvp call caused buffer overflow
CSCuz17364	DTMF Type ahead buffer on GW with Nuance not working
CSCux16650	SHA-2 support on ISR G2
CSCux29793	2 extra Interim Accounting messages sent after SRL service activation
CSCuy92842	%ENVMON-2-TEMP_SENSOR_OVERTEMP: Warning: Sensor 4 Temperature 62C
CSCuz42552	cgna traceback on PI31 branch nightly build
CSCuz84103	GPS NMEA UDP STREAM Failure on IR829GW-LTE-GA-EK9
CSCuz78761	IOS and linux communication failure : 4G Mizuno modems
CSCuy78723	lte sim data-profile 1 attach-profile 1 under controller cellular
CSCux67518	potential memory corruption in modem due to the unexpected GPS open
CSCuy80060	Sim's are not displaying with 'C899G-LTE-GA-K9' in 4G
CSCva32006	SSH Process thrash executing multiple commands quickly on ISR-G2
CSCva66036	After upgraded modem FW on CGR, shouldn't need to power-cycle the modem
CSCva00899	C841M crashes randomly during execution of the reload EEM script.



CHAPTER 7

Bugs for Cisco IOS Release 15.6(2)T

- [Open and Resolved Bugs](#), on page 87
- [Open Bugs—Cisco IOS Release 15.6\(2\)T1](#), on page 89
- [Open Bugs—Cisco IOS Release 15.6\(2\)T](#), on page 89
- [Resolved Bugs—Cisco IOS Release 15.6\(2\)T3](#), on page 91
- [Resolved Bugs—Cisco IOS Release 15.6\(2\)T1](#), on page 95
- [Resolved Bugs—Cisco IOS Release 15.6\(2\)T](#), on page 98

Open and Resolved Bugs

The open and resolved bugs for this release are accessible through the [Cisco Bug Search Tool](#). This web-based tool provides you with access to the Cisco bug tracking system, which maintains information about bugs and vulnerabilities in this product and other Cisco hardware and software products.

Within the Cisco Bug Search Tool, each bug is given a unique identifier (ID) with a pattern of CSCxxNNNNN, where x is any letter (a-z) and N is any number (0-9). The bug IDs are frequently referenced in Cisco documentation, such as Security Advisories, Field Notices and other Cisco support documents. Technical Assistance Center (TAC) engineers or other Cisco staff can also provide you with the ID for a specific bug.

You can save searches that you perform frequently. You can also bookmark the URL for a search and email the URL for those search results



Note If the defect that you have requested cannot be displayed, this may be due to one or more of the following reasons: the defect number does not exist, the defect does not have a customer-visible description yet, or the defect has been marked Cisco Confidential.

This document contains the following sections:

Using the Bug Search Tool

The Cisco Bug Search Tool enables you to filter the bugs so that you only see those in which you are interested. In addition to being able to search for a specific bug ID, or for all bugs in a product and release, you can filter the open and/or resolved bugs by one or more of the following criteria:

- Last modified date
- Status, such as fixed (resolved) or open

- Severity
- Support cases

For more information about how to use the Cisco Bug Search Tool, including how to set email alerts for bugs and to save bugs and searches, see [Bug Search Tool Help & FAQ](#).



Note You must have a Cisco.com account to log in and access the [Cisco Bug Search Tool](#). If you do not have one, you can register for an account.

To use the Cisco Bug Search Tool:

1. In your browser, navigate to the [Cisco Bug Search Tool](#).
2. If you are redirected to a Log In page, enter your registered Cisco.com username and password and then, click Log In.
3. To search for a specific bug, enter the bug ID in the Search For field and press Enter.
4. To search for bugs related to a specific software release, do the following:
 - a. In the Product field, choose Series/Model from the drop-down list and then enter the product name in the text field. If you begin to type the product name, the Cisco Bug Search Tool provides you with a drop-down list of the top ten matches. If you do not see this product listed, continue typing to narrow the search results.
 - b. In the Releases field, enter the release for which you want to see bugs.

The Cisco Bug Search Tool displays a preview of the results of your search below your search criteria. You can mouse over bugs to see more content about a specific bug.

To see more content about a specific bug, you can do the following:

- Mouse over a bug in the preview to display a pop-up with more information about that bug.
- Click on the hyperlinked bug headline to open a page with the detailed bug information.
- To restrict the results of a search, choose from one or more of the following filters:

Filter	Description
Modified Date	A predefined date range, such as last week or last six months.
Status	A specific type of bug, such as open or fixed.
Severity	The bug severity level as defined by Cisco. For definitions of the bug severity levels, see Bug Search Tool Help & FAQ
Rating	The rating assigned to the bug by users of the Cisco Bug Search Tool.
Support Cases	Whether a support case has been opened or not.

Your search results update when you choose a filter.

Open Bugs—Cisco IOS Release 15.6(2)T1

Table 17: Open Bugs—Cisco IOS Release 15.6(2)T1

Identifier	Description
CSCuz96879	tunnel stops passing traffic after FO with ISM and Stateful HA
CSCux41072	EIGRP sending hello messages with interface in passive mode.
CSCuz98690	IWAN auto-tunnel - incomplete adjacencies
CSCuz70409	HWIC-4ESW randomly stops forwarding multicast streams.
CSCuz69459	HWIC-4T with hardware reversion have ping loss.
CSCuz86736	ISR3925 // SM-X-1-T3/E3= // Flapping Issue while XR on far end device
CSCuz39721	ASR1K/RP2/SW 15.4(3)S4 crash
CSCuv18439	CPUHOGS in chunk corruption crashinfos distracts troubleshooting
CSCva22819	Processor pool leak due to CCSIP_SPI_CONTROL
CSCuu49038	Base Station Ping fails from the router
CSCuy93968	Link Recovery not working

Open Bugs—Cisco IOS Release 15.6(2)T

Table 18: Open Bugs—Cisco IOS Release 15.6(2)T

Identifier	Description
CSCuy32360	Crash after Quiet mode is triggered with login block-for configured
CSCuy50465	Logging persistent may lead to IOS image corruption on the flash
CSCuy03504	Incorrect prefix count upon clearing bgp peering
CSCuw90008	ISM is stuck during installation of GETVPN policy
CSCuy42770	"HTTP ACS Response code 401" is received for cwmp_session_response_data
CSCux33385	DHCP binding deletes cash after getting unicast DHCP request
CSCux47834	DHCP server crashed when updating DDNS entries
CSCux60876	Memory corruption on Cisco 2921.
CSCux74992	IPv6 Route over Dialer is installed even before the PPP negotiation

Identifier	Description
CSCuy29071	stacklow crash while configuring mDNS
CSCuv22078	C881W: Inconsistent behaviour with Guest PC plugged behind Avaya Phone
CSCut23908	HWIC loses connectivity to IP's outside subnet when 802.1x process done
CSCux48069	3750x 15.0.2.se5 -- fails to apply DACL after master reload
CSCux41072	EIGRP sending hello messages with interface in passive mode.
CSCux68976	Crash in fib_fib_get_fib_tableid
CSCuy52399	Router crashes with Scansafe and ntlm
CSCuo42832	IPS: Crash @ ips_dp_feature_action_internal with IPS,ZBFW,Scansafe ,NAT
CSCui75586	router crash with live traffic
CSCuo70505	ZBFW: Crash@fw_tcp_cleanup_ooo_q after sending heavy traffic
CSCuw75695	Router crash due to Process = SSS Manager
CSCuy68982	unable to ping the secondary ip address configured on a gig interface
CSCuy76014	No audio for CFALL / TRansfer case with rtp-srtp flow
CSCuy40672	One way audio in a DODO call after transfer with REFER disabled
CSCuy69265	ikev2 / IPSEC DVTI multiSA does not create additional SA's against ASA
CSCuy01778	GETVPN KS reload after split and merge
CSCux25628	Diffie Hellman computation fails due to leak in crypto engine
CSCuv31981	ISR Router Crashes When Trying to Delete a Freed SA
CSCuu60689	Packets dropped by ingress ACL when IPSec + ACL configured for IPv6
CSCuw81524	Latency values are more for tx-ring 2 than tx-ring 64
CSCux20993	MLP fragmentation issue with EHWIC-VA-DSL-A and 887VA
CSCuy01416	EHWIC-1GE-SFP-CU on ISR2951: MAC addr is not learned with EVC/BD config
CSCut86321	Tx hang on 2951's GigabitEthernet IF
CSCuv96977	EHWIC-4ESG: SVI fails to forward mutlicast traffic
CSCuy23951	VWIC3 causes RTP Out of seq packets
CSCuy79174	tcp flow records are no longer seen in the netflow cache
CSCuy64209	3900 router crashes on enabling PFRV3
CSCuu98027	onepk memory corrupt crash when repeating sh policy-map

Identifier	Description
CSCUy13701	IOS PKI: Crash while editing a VRF aware TP with enrollment profile
CSCUx07723	Router crash when ISP removes the patch cords connected to Gig 0/2
CSCUy39110	ESRST voice gateway crash when SCCP phone goes off-hook
CSCUy54627	Evaluation of scc for OpenSSL March 2016
CSCUx93752	SRST Double Ringback heard on blind transfer to PSTN
CSCUy74990	BGP not forming neighborhood on ASR1k with dual RP
CSCUy77138	Cube not rejecting SRTP Invite with SIP 488/secure Xcoding session exhaust
CSCUy00161	DSP crashed when dialing the masked # of
CSCUy67656	Router crash in H.245 IWF State Machine
CSCUy65330	RSVP Reservation Failure Causes Call Drop on Voice to Video Calls
CSCUy54176	Router Crashes Due to Invalid Free on sipDestructMimeObj
CSCUx16650	SHA-2 support on ISR G2
CSCUy98899	ISR G2 gateway crash during cc longevity load test

Resolved Bugs—Cisco IOS Release 15.6(2)T3

Table 19: Resolved Bugs—Cisco IOS Release 15.6(2)T3

Caveat ID Number	Description
CSCuz48415	"aaa authentication suppress null-username" not working as expected
CSCva47253	AAA crash on multiple username deletions - Part 2
CSCUy27733	Continuous CPE request/solicit msgs causes CPU and Memory issues
CSCvc42499	Function radius_message_authenticator_decode
CSCva32762	Radius packets are timed out caused link to go Critical-auth.
CSCvc70492	Rework of CSCuz48415
CSCvb63245	Show aaa servers command results in crash due to SSH process stacklow
CSCuz82218	TACACS Enable authentication fails with null pre shared key
CSCut50727	Cisco IOS and IOS XE Software EnergyWise Denial of Service Vulnerabilities
CSCve54313	Crash in ALPS SNMP code

Caveat ID Number	Description
CSCux50997	IOS crashes on bootup without any startup configuration
CSCuv01168	SPA-2XCT3/DS0 controller is not coming up on fresh reboot.
CSCuy40641	AN: AN ACP tunnel keepalive is not working
CSCva51205	AN: AN drops CD received on Fastethernet interface in ASR1K
CSCva92726	AN: AN memory holding grows during longitivity test
CSCva29933	AN: ASR901 hangs after AN aborts setup dialogue
CSCuz76841	AN: ISR-G3 crashes after disabling autonomic
CSCva49849	AN: Nbr/ACP flap continuously when a rouge device tried to join
CSCuz88340	AN: ULA is configured on ANI & same ANI used for multiple neighbors
CSCvc42729	Autonomic Networking Infrastructure Adjacency Discovery DoS Vulnerability
CSCvc42717	Autonomic Networking Infrastructure Registrar Device Reload
CSCvc89965	After reload route policy processing not re-evaluate with route-map using match RPKI
CSCvc12039	ASR903/RSP1B&RSP3C 3sec to 10sec loss on RSP switchover when SSO enabled
CSCvc99820	BGP crashed configuring different update-source interface with v6 LL peering
CSCvc58538	BGP crashes when removing advertise-map
CSCvb29541	Config replace with 2000 sites config, BGP router crash unexpectedly
CSCuw35828	crash w/BGP show advertised-routes when route-server is on vrf
CSCvd90251	Duplicate BGP prefixes are not dropped
CSCvd09584	eVPN PMSI VNI decoding / encoding as MPLS label
CSCvd16828	High CPU due to periodic route refresh to VPN peers using rtfiler AF
CSCvc47855	RT Filter peer sometimes unable to receive vpv4 or vpv6 nets
CSCvd48039	UUT failed to send vpv4/v6 routes to peer
CSCvd43437	Wrong Source IP Selection for eBGP in EVN/VNET environment
CSCve57697	Crash in Bstun SNMP code
CSCsy56638	Switch crashes after getnext on the last cafServerAliveAction index
CSCus21944	The 4510 switch with 03.03.03.XO does not generate accounting updates
CSCvd13306	"no default-information originate" doesnt work unless "default-information originate" is added first

Caveat ID Number	Description
CSCvc40533	CUBE sending duplicate session ID for BYE/CANCEL transaction
CSCvc34235	"crypto ipsec fragmentation before-encryption" command disappears after reload
CSCvb08960	ezvpn client config disappears from dialer int when pppoe session flaps
CSCvb70426	GETVPN: crash due to unexpected exception to CPU during Reg/Rekey policies from KS
CSCva05558	IKEv2 IPv6 GRE IPsec fails to stabilize on asr1k on 16.3
CSCvd99474	IPsec: For sVTI after rekey old SAs are not getting deleted
CSCvfl1237	Memory leak seen@crypto_init_show_instance
CSCvd40880	Modifying crypto ACL leads to a removal of crypto map config
CSCvc09368	Crash at update of context nhrp
CSCvc75262	GETVPN GM in "Not initialised" state after ISSU runversion
CSCvc35196	Behavior difference between XE3.17 and Polaris
CSCvd54358	Dynamic routes don't get propagated if old session is present in In-Active state.
CSCvc59750	IKEv2 Aggregate-auth Timing Issue
CSCvc78694	Ikev2 SA INIT queue CLI : Fix default behaviour
CSCvc99738	IKEv2 tunnel fails to come up b/w Cisco routers post upgrading one router to 15.5(3)S5, 15.5(3)M5
CSCva61415	Unable to initiate IKE sessions due to mismatch in CAC counters
CSCvb90985	ISAKMP SA entries are not getting deleted
CSCvd47757	csr1000v is not able to poll CISCO-IPSEC-FLOW-MONITOR-MIB
CSCvd97524	Fixed versions for CSCuz15131 crash when traffic with maximum size is on wire
CSCvd25106	2nd isis instance crashes after configuring new connected-prefix-sid-map due to no instance PDB
CSCvd21785	ISIS RIB and Global RIB out of sync resulting in complete traffic loss
CSCvc51408	ISIS route oscillation due to ldp sync and interface max metric
CSCvd86031	RSVP neighbor is not coming up after reloading ASR9001 peer
CSCug37708	Router allows external connections to Embedded, SM, etherswich modules
CSCve60507	Crash in "mac auth bypass" SNMP code
CSCve60376	Crash in ADSL DMT SNMP code

Caveat ID Number	Description
CSCve60276	Crash in ADSL SNMP code
CSCvd84851	Unable to apply Service-Policy with NBAR Protocol Pack 28.0.0
CSCvd72530	ASR1k configured as PxTR crashes when booted with 16.5.1 image at LISP fwd background process
CSCvd47567	Unexpected reboot with NAT and Multicast configured
CSCvc90685	Accounting Stop not sent for PMIPv6 tunnel in LMA
CSCve19361	681985688 - CPP ucode crashes at ESP20 / 16.03.02
CSCvd01488	Running command "show ip nbar protocol-discovery" or "show tech nbar" can cause crash
CSCva70115	ISR4331 crash due to NHRP running 03.16.03.S
CSCuz94245	IGP-LDP sync interoperability for OSPF multi area adj
CSCve00964	OSPF retransmit behaviour issues
CSCva74756	OSPF Rogue LSA with maximum sequence number vulnerability
CSCuv69650	OSPF Virtual-link using the lowest cost path
CSCvb84388	Auth and CRL download fails with "There is another request in progress"
CSCvc33707	crash after multiple renew
CSCuz22162	Digital certificates does not sync to standby
CSCuv44053	PKI Rollover: rollover cert is being added as active id cert
CSCvb73018	PKI: Cannot import RSA SubCA signed by ECDSA
CSCva72564	Customer POC- Autoinstall obtained IP overrides USB bootstrap config
CSCvb44207	CTS/SGT across GRE p2p tunnel broken when doing inline tagging
CSCve66658	Crash in TN3270E-RT-MIB code
CSCve60402	Crash in Voice DNIS SNMP code
CSCvc49737	Transcoders in ISR4451 can't open the media port
CSCvd16863	2951 crash due to Null Pointer Dereference

Resolved Bugs—Cisco IOS Release 15.6(2)T1

Table 20: Resolved Bugs—Cisco IOS Release 15.6(2)T1

Identifier	Description
CSCuy21675	Crash@username_ command with service pwd-encryption & common-criteria cfg
CSCux69225	Mac filtering option "None" sends blank password
CSCuy01051	MPLS VPN over mGRE Routing issue after reload
CSCul15273	AN Link local Tunels not deleted after no autonomic is issued
CSCuy04454	AN: "autonomic connect" interface is not in AN VRF after int reconf.
CSCuy02477	AN: AN creating channel in autonomic connect interface
CSCux51388	AN: CD punting is getting enabled after save & reload without autonomic
CSCuz50338	AN: Crash during bootstrap at hwidb_iftype_unlist
CSCuw79036	AN: Device id/address is not getting populated properly beyond 127
CSCuy87056	AN: Device receives & keeps multiple certificates
CSCux80195	AN: Manual tunnel creation fails after few ACP flap
CSCuy86757	AN: NTP not syncing in recent images
CSCuw89680	AN: Router crashed while recreating channel after save & reload
CSCuw65651	AN: Router crashes after defaulting interface with AN EFP
CSCux75878	AN: UDI getting truncated in "show autonomic registrar devices accepted"
CSCuy87599	Manually entered IKEv2 crypto profile not NVgen-ed with AN active
CSCuy03054	ASR1K IOSd may crash in BGP Acceptor process due to segmentation fault
CSCuy20481	Crash due to stale pointer after removing vrf command export AF map
CSCux76332	Deleting a statement in export map, removes other statement
CSCuy03504	Incorrect prefix count upon clearing bgp peering
CSCux62094	Routes are not exported from vrf to global due to incorrect export limit
CSCuy33157	C5921 crashes when access point disabled.
CSCuy44757	e5921 support for VTY 5-15
CSCuw55129	vlan tag removed kernel-2.6.32-504.23.4.el6.i686 and later
CSCuz62786	ISR4K sccp based transcoding hanging dsp-session_leg on data-plane

Identifier	Description
CSCUv74256	IOS: HMAC key miscalculated with DH Group 21 and IPSec PFS enabled
CSCUx68976	Crash in fib_fib_get_fib_tableid
CSCUw52464	ISR reload with info file for FW feature set
CSCUy38707	After RSP switchover, BFD hangs for up to 10 minutes before converging
CSCUv86229	Interrupt stack overrun and crash due to recursive tunnel lookup, Part 2
CSCUz41999	Optimizing the EoGRE endpoint creation/deletion
CSCUv92547	Crash at pp_delete_socket
CSCUy48358	Crash during SIP subscribe notify ACK
CSCUx25412	Crash with SIP subscribe notify enabled
CSCUz64285	Cube fails to send the SIP Error code response
CSCUy19807	IOS-XE CUBE Hold/Resume Fails when negotiating video
CSCUz69975	Under load crash is seen in CVP REFER_PASSTHRU scenario
CSCUw99554	ASR crashes on removing the sub-interface on HSRP active router
CSCUx09048	flow restrict on backup crypto map causes traffic to fail
CSCUz14788	New reg invoke PKI function breaks the GETVPN CRL Checking feature
CSCUx25628	Diffie Hellman computation fails due to leak in crypto engine
CSCUv31981	ISR Router Crashes When Trying to Delete a Freed SA
CSCUq91346	Routers crashed when enabling NFAS under the T1 controller
CSCUx29806	ISIS routes are not installed in the routing table from isisdatabase
CSCUx89502	PPPoE on MLPPP SHDSL links crashes router: packet in free block
CSCUw15247	C891F BRI: Q921 frame exchange is suddenly stopped
CSCUw49973	%REGISTRY-3-STUB_CHK_OVERWRITE tracebacks seen @ pq3_tsec_subsys_init
CSCUv86321	Tx hang on 2951's GigabitEthernet IF
CSCUw46836	ehwic-1ge-sfp reports HWIC_HOST-1-RX_CRC_ERROR messages after CSCUo71154
CSCUv34058	Memory Fragment on SM-X-1T3/E3= with Serial Background process
CSCUy23951	Priority Packets Randomly Fall Under Class-Default Over *VWIC*
CSCUw14948	HSRP vip ping failure after power off one side Router with SM module
CSCUv72718	L2TPv3 session pending between 2 devices

Identifier	Description
CSCus82816	Crash in tup_lookup_func in Scansafe feature
CSCut45177	CWS HTTPs traffic fails to load on ISR configured with NVI
CSCuy03680	V3Lite IGMP packets sent instead of V3 when UDP based feature is present
CSCuy45804	MCAST: PIM issue tracking RP source address
CSCuz03646	match protocol "netbios-dgm" CLI not working for c800 NPE images
CSCuy31450	Router crashes after reload with protocol pack auto update config
CSCuy71712	FlexVPN: Spoke spawns a virtual access to connect to the hub
CSCuy04757	Crash@ospfv3_router_process_mgd_timers on shut/no shut of sub-intf
CSCuy32709	R-LFA Tunnels not established on setting DS required attribute
CSCux19034	XE3.16 crashes when conf "distribute-list" under router ospf and sh run
CSCuw53025	Cat3850 reports "Error, ECI has run out of event blocks" message
CSCuu25580	VTY0-4 settings are modified if switch is accessed via WebUI
CSCuy85870	Wrong TD next-hop for overlapping prefixes
CSCuy13701	IOS PKI: Crash while editing a VRF aware TP with enrollment profile
CSCuy55849	RTR installs the ISIS(or OSPF) route with Higher Metric in the RIB
CSCuy07343	AN : ipv6 global prefixes are seen in the cisco_autonomic vrf table
CSCuw81424	AN: Router crashes in scale hub & spoke setup
CSCuy39110	ESRST voice gateway crash when SCCP phone goes off-hook
CSCuw57124	Cat3750 stack switch memory leak in MallocLite and Dead memory
CSCuy38709	Memory leak with watcher_create_common.
CSCuy34361	SSH V1 periodically crashes when displaying large volumes of data
CSCuy54623	Evaluation of all for OpenSSL March 2016
CSCuz52528	Evaluation of all for OpenSSL May 2016
CSCux03041	LDP NSR: Session Flaps on Standby RP Due to MD5 Authentication Failure
CSCuu71299	MPLS LDP flap with %TCP-6-BADAUTH: No MD5 digest
CSCuv41355	Unable to telnet -- No wild listener: port 23
CSCus46844	802.1x 3650 Radius Response not picked up by AAA code
CSCux56741	2951 crashes every 15 min due to stacklow

Identifier	Description
CSCuz03079	ISR-4K Processing Error: H323 Setup parameter "mediaWaitForConnect TRUE"
CSCuy65330	RSVP Reservation Failure Causes Call Drop on Voice to Video Calls
CSCuy15638	Voice ports are stuck in EM_PARK state in e&m-melcas-delay
CSCuz52693	ISR 4K Memory Holding in CCSIP_SPI_CONTROL
CSCus03761	Stack overflow crash @ ip_epm_proxy_slow_check.
CSCuy83854	deb voip application vxml with 1 cvp call caused buffer overflow
CSCuz17364	DTMF Type ahead buffer on GW with Nuance not working

Resolved Bugs—Cisco IOS Release 15.6(2)T

Table 21: Resolved Bugs—Cisco IOS Release 15.6(2)T

Identifier	Description
CSCux46432	AAA crash on multiple username deletions
CSCuw86386	AAA crash when removing TACACS servers
CSCux56322	router crash with memory corruption related to vstack feature
CSCup03795	SPAN breaks on ACTIVE port after switchover in VSS setup
CSCuw19830	Ethernet MPID Ping fails in CFM over EFPs for ACs with SSFP Optics
CSCux89485	AN: After save & reload neighborhood to all nbrs are not re-established.
CSCux59168	AN: autonomic [optional commands] are not available under interface mode
CSCuw79036	AN: Device id/address is not getting populated properly beyond 127
CSCux80195	AN: Manual tunnel creation fails after few ACP flap
CSCuw89680	AN: Router crashed while recreating channel after save & reload
CSCux75878	AN: UDI getting truncated in "show autonomic registrar devices accepted"
CSCut74192	bfd session not coming up after interface in vrf shut and no shut
CSCus94258	AIGP metric not used when NH has AIGP attribute
CSCux55351	ASR1K router crashed due to running BGP with AIGP
CSCux70093	BGP RR does not advertise vpnv6 prefixes even all RT filters are learnt
CSCuy20481	Crash due to stale pointer after removing vrf command export AF map

Identifier	Description
CSCux76332	Deleting a statement in export map, removes other statement
CSCux96029	GR Non-restarting peer does not advertise VPN routes default RT filter
CSCuw79017	MPLS VPN: Crash when rt import is added under vrf definition
CSCux62094	Routes are not exported from vrf to global due to incorrect export limit
CSCux13904	Bolt: Modem stays in boot and hold mode after f/w upgrade
CSCuw52729	Enabling auto qos causes "line vty 0 4" length set to 0
CSCuy33157	C5921 crashes when access point disabled.
CSCuy01239	In c5921, config-register value was not setting to value after reload
CSCuy35558	L2 firewall not working on c5921 platform
CSCuw64684	Packet loss observed during oversubscription of QOS in c5921
CSCuw55129	vlan tag removed kernel-2.6.32-504.23.4.el6.i686 and later
CSCuw06084	DTMF not getting recognized on ISR G3 when using TCL Script
CSCux77635	Incoming Delayed Offer SIP Trunk Call to Mixed Shared line fails
CSCux18010	Cisco Networking Services Sensitive Information Disclosure Vulnerability
CSCux37497	Malloc Issues with chunk manager perf_mon_async_cft_create_fo()
CSCuw58631	Crypto fragmented traffic may cause an ISM-VPN failure
CSCux04108	ISM drops fragmented traffic if virtual-reassembly configured (2)
CSCux44277	ISM-VPN GDOI: GM with crypto map on two interfaces stops decrypting ESP
CSCux43630	Packet drops 1941 hangs without logging error messages
CSCuw02624	IOS:Cannot periodically establish SSL connection
CSCuw99512	3900e build failure in t_base_6, v156_1_t_throttle due to CSCuw26842
CSCuw77959	1801M - %DATACORRUPTION-1-DATAINCONSISTENCY: copy error
CSCut10251	Some commands are not in running-config after AUTOINSTALL finishes
CSCux83133	IPv6 intermittent CEF issue
CSCuy14060	Build breakage due to CSCux16379 commit
CSCux49494	'allow connections' or 'telephony-service' config is required on ISR4k
CSCuv40225	G8032 ring stuck on protection State
CSCuw12720	MallocLite memory leak due to EEM when using "file open" action.

Identifier	Description
CSCUw43115	CSR1Kv XE 3.13.3S Crashed on clearing ip ospf process
CSCUw82081	LISP CEF: fwd-native routes gleaned for LISP not forwarded natively
CSCUv36677	IOS allows RC4-MD5 and RC4-SHA1 SSL ciphers to be negotiated by default
CSCUt44432	Chunk Manager Leak due to PROTO_COUNTER
CSCUw52464	ISR reload with info file for FW feature set
CSCUx00363	Router crash when freeing FW SID
CSCUp94022	CWS: WL: Crash seen after "no whitelist down" during XML Download
CSCUu82082	Memory corruption crash due to cont_scan_display_session
CSCUw33384	PBR not working when the recursive next-hop is not in routing table
CSCUq13031	[Beni]IOSD crash report@rip_add_idb in VSS setup on latest Beni [61.E]
CSCUw19340	Mixed Mode: Tunnel changes for mixed mode support for VTI.
CSCUt92547	Crash at pp_delete_socket
CSCUw67113	crash seen in CVP load REFER scenarios
CSCUx25412	Crash with SIP subscribe notify enabled
CSCUv75728	CUBE crashed @ __be_sipSPI_ipip_antiTrombone, Antitrombone Call
CSCUx97624	Extra CLI "session target sip-server" generated under dial-peer
CSCUw90105	Found multiple sessions in MF multiple recording server scenario
CSCUy19807	IOS-XE CUBE Hold/Resume Fails when negotiating video
CSCUy40672	One way audio in a DODO call after transfer with REFER disabled
CSCUy33804	Traceback seen @resolve_sig_ip_address_to_bind during SRTP calls
CSCUw99554	ASR crashes on removing the sub-interface on HSRP active router
CSCUw23947	For IPv4: Activate Under GDOI Fail-Close Disappears on Reboot
CSCUy30957	For IPv6:Activate Under GDOI Fail-Close Disappears on Reboot
CSCUv08835	IPSEC key engine process leaks /w dynamic crypto map in scaled scenario
CSCUx09048	flow restrict on backup crypto map causes traffic to fail
CSCUx83732	Pseudotime not being synchronized between GETVPN Key Servers
CSCUw95699	Traffic dropping after receiving TEK rekey on ISRG2 GM
CSCUv94186	SNMPWALK crash at ipsmIPSec_policyOfTunnel

Identifier	Description
CSCux11337	15.5(3)M1: router crashes@post_crypto_ip_encrypt on 3900e platform
CSCur18715	CUCM native queue call disconnect due to Application AckTimer expire
CSCuw74752	cpu hog and crash in isis_ip_xlfa_pq_ipaddr_usable
CSCuv81298	LFA SPF causes cpuhog and crash in scaled test with 400 nodes
CSCuw47382	OTV:Local otv vlan inactive after ED reload
CSCur14893	C891FJ packet drops strikingly with 64byte/100Mbps traffics
CSCuy72916	Device got hanged with NPE image.
CSCuw49973	Tracebacks are seen @ pq3_tsec_subsys_init
CSCux33431	VDSL Controller stuck and crash with c897VAB
CSCut34058	Memory Fragment on SM-X-1T3/E3= with Serial Background process
CSCuy36008	Firmware version displays wrong value in Milpitas C888-K9
CSCuw14948	HSRP vip ping failure after power off one side Router with SM module
CSCus72718	L2TPv3 session pending between 2 devices
CSCux50799	Virtual-PPP source interface is removed adter reload
CSCus82816	Crash in tup_lookup_func in Scansafe feature
CSCut45177	CWS HTTPs traffic fails to load on ISR configured with NVI
CSCuw65792	CWS not associating CN with nested groups when "," (comma) is used
CSCux05779	LISP possible segmentation fault with DDT enabled
CSCuv16107	LISP traffic dropped 10 seconds @PUNT_NO_MATCH after RPFO
CSCuw60669	No negative reply sent by LISP MS with DDT peer offline
CSCuw65059	mfib on the line card stuck in Connecting state
CSCuw02238	CSR1KV, AVC: csr1kv crash when "show run format" is run
CSCuw97075	perf-monitor service policy does not with connection initiator commands
CSCuv27545	Polaris:MFIB subsystems take 2-3 secs more during RF Prog in SSO
CSCuy53026	PMIPV6 DMNP Memory leak in LMA
CSCux34430	Traffic not flowing through for MAG MNP's with PBR
CSCuw49097	Loss of communication between IOS and Modem
CSCuy13792	ISR G2 Crash on Quick 4G Tunnel Template MTU and Adjust-MSS Change

Identifier	Description
CSCUw20313	Router crash configuring IPv6 over IPv4 tunnel on NEMO tunnel template
CSCux28030	No ARP replay for NAT address in vrf
CSCur51997	Packets coming from outside interface NOT translated
CSCUu21270	Traceroute freezes the router with ip nat enable configured
CSCux10171	[3.17] KinPin Crashed when configuring custom HTTP
CSCux29515	\$\$\$S: branch MC shutdown itself with dual BR branch with multi-WAN topo
CSCux60466	PfRv3 - CPUHOG pointing to cent event-trace
CSCUw51471	PfRv3 - SYS-3-CPUHOG process CENT-BR-green with 1 Traffic-class
CSCUw57441	PfRv3 stress - memory allocation failure / pfr dmvpn interface flap
CSCut61985	MPLSoDMVPN; Ping to spoke int. fails if dest. mask is /32
CSCUv05123	c3560e/v151_sy_throttle platform doesn't store NTP drift values properly
CSCUw85826	Evaluation of Cisco IOS and IOS-XE for NTP_October_2015
CSCUu55332	OSPF NSR: Standby Crash on no shut of interface with ip address dhcp
CSCUy30908	5940: Router is crashing while launching R2CP session
CSCUo61229	ASR1002 Crashed after "show pfr master active running"
CSCUw57225	PFRv2 not work well for 10% inbound load-balance
CSCUu30930	ENH IOS PKI: Client should accept content-type x-x509-next-ca-cert
CSCUy33129	G2 routers not able to download Trustpool due to nvram space
CSCUw41120	IOS PKI: Temp Self-signed sequence number encoded as signed integer
CSCUu68032	IOS-XE crash when trying to auto-enroll with usage keys
CSCux17298	ISR-G2: Gigabit Ethernet interface is always in shutdown after reload
CSCux52544	PnP Fails to Initiate with Non-VLAN1 Feature Configured
CSCUw15272	PNP non-vlan 1 zero-touch upgrade does not work
CSCUv19528	CPU Spikes 99% for 32k scale with common acl and per user ace download
CSCUv11944	Memory corruption after CAPTURE_FULL error
CSCUw51653	SIP SRST router in eSRST mode reject phone registration due to + DN
CSCUv74171	crash on command "show snmp view"
CSCux42885	3945E crash at sslvpn_aaa_unique_id_alloc

Identifier	Description
CSCux28617	IOS crash after AnyConnect SSL VPN tunnel creation
CSCuw47130	STCAPP commands gets removed after reloading 43XX/44XX routers
CSCux03041	LDP NSR: Session Flaps on Standby RP Due to MD5 Authentication Failure
CSCuu71299	MPLS LDP flap with %TCP-6-BADAUTH: No MD5 digest
CSCuv41355	Unable to telnet -- No wild listener: port 23
CSCuy55764	Abnormal functionality of L2 firewall in c5921
CSCus46844	802.1x 3650 Radius Response not picked up by AAA code
CSCuw96640	router crashed multiple times at mc_make_packets_DQ
CSCux36081	4XXX / ISR3 xcoder fails when stream is send only receive only
CSCus45019	Media loop detection failure
CSCux54794	Configuration under the E&M voice-ports are missing after the reload
CSCux45574	DSP channel not released on ISR3 incoming FXO call
CSCux88265	DSP errors seen and audio fails for MGCP-FXO to IP Phone call
CSCux22874	On demand PCM captures needs to be available on ISR4k routers
CSCuy16501	Static noise introduced on FXO after IOS upgrade
CSCux44315	Per Call Debugging system restart by address error
CSCuy15638	Voice ports are stuck in EM_PARK state in e&m-melcas-delay
CSCus03761	Stack overflow crash @ ip_epm_proxy_slow_check.
CSCuu25704	Memory corruption in the IO pool when a t38 fax gateway receives t37 fax
CSCuv63373	DNS value received from 4G EHWIC not populated correctly in IOS
CSCur71089	SIM toggling between sim0 and sim1



CHAPTER 8

Bugs for Cisco IOS Release 15.6(1)T

- [Open and Resolved Bugs](#), on page 105
- [Open Bugs—Cisco IOS Release 15.6\(1\)T2](#), on page 107
- [Open Bugs—Cisco IOS Release 15.6\(1\)T1](#), on page 107
- [Open Bugs—Cisco IOS Release 15.6\(1\)T](#), on page 108
- [Resolved Bugs—Cisco IOS Release 15.6\(1\)T2](#), on page 113
- [Resolved Bugs—Cisco IOS Release 15.6\(1\)T1](#), on page 116
- [Resolved Bugs—Cisco IOS Release 15.6\(1\)T](#), on page 118

Open and Resolved Bugs

The open and resolved bugs for this release are accessible through the [Cisco Bug Search Tool](#). This web-based tool provides you with access to the Cisco bug tracking system, which maintains information about bugs and vulnerabilities in this product and other Cisco hardware and software products.

Within the Cisco Bug Search Tool, each bug is given a unique identifier (ID) with a pattern of CSCxxNNNNN, where x is any letter (a-z) and N is any number (0-9). The bug IDs are frequently referenced in Cisco documentation, such as Security Advisories, Field Notices and other Cisco support documents. Technical Assistance Center (TAC) engineers or other Cisco staff can also provide you with the ID for a specific bug.

You can save searches that you perform frequently. You can also bookmark the URL for a search and email the URL for those search results



Note If the defect that you have requested cannot be displayed, this may be due to one or more of the following reasons: the defect number does not exist, the defect does not have a customer-visible description yet, or the defect has been marked Cisco Confidential.

This document contains the following sections:

Using the Bug Search Tool

The Cisco Bug Search Tool enables you to filter the bugs so that you only see those in which you are interested. In addition to being able to search for a specific bug ID, or for all bugs in a product and release, you can filter the open and/or resolved bugs by one or more of the following criteria:

- Last modified date

- Status, such as fixed (resolved) or open
- Severity
- Support cases

For more information about how to use the Cisco Bug Search Tool, including how to set email alerts for bugs and to save bugs and searches, see [Bug Search Tool Help & FAQ](#).



Note You must have a Cisco.com account to log in and access the [Cisco Bug Search Tool](#). If you do not have one, you can register for an account.

To use the Cisco Bug Search Tool:

1. In your browser, navigate to the [Cisco Bug Search Tool](#).
2. If you are redirected to a Log In page, enter your registered Cisco.com username and password and then, click Log In.
3. To search for a specific bug, enter the bug ID in the Search For field and press Enter.
4. To search for bugs related to a specific software release, do the following:
 - a. In the Product field, choose Series/Model from the drop-down list and then enter the product name in the text field. If you begin to type the product name, the Cisco Bug Search Tool provides you with a drop-down list of the top ten matches. If you do not see this product listed, continue typing to narrow the search results.
 - b. In the Releases field, enter the release for which you want to see bugs.

The Cisco Bug Search Tool displays a preview of the results of your search below your search criteria. You can mouse over bugs to see more content about a specific bug.

To see more content about a specific bug, you can do the following:

- Mouse over a bug in the preview to display a pop-up with more information about that bug.
- Click on the hyperlinked bug headline to open a page with the detailed bug information.
- To restrict the results of a search, choose from one or more of the following filters:

Filter	Description
Modified Date	A predefined date range, such as last week or last six months.
Status	A specific type of bug, such as open or fixed.
Severity	The bug severity level as defined by Cisco. For definitions of the bug severity levels, see Bug Search Tool Help & FAQ
Rating	The rating assigned to the bug by users of the Cisco Bug Search Tool.
Support Cases	Whether a support case has been opened or not.

Your search results update when you choose a filter.

Open Bugs—Cisco IOS Release 15.6(1)T2

Table 22: Open Bugs—Cisco IOS Release 15.6(1)T2

Identifier	Description
CSCuz96879	tunnel stops passing traffic after FO with ISM and Stateful HA
CSCux41072	EIGRP sending hello messages with interface in passive mode.
CSCuz98690	IWAN auto-tunnel - incomplete adjacencies
CSCuz70409	HWIC-4ESW randomly stops forwarding multicast streams.
CSCuz69459	HWIC-4T with hardware reversion have ping loss.
CSCuz86736	ISR3925 // SM-X-1-T3/E3= // Flapping Issue while XR on far end device
CSCuz39721	ASR1K/RP2/SW 15.4(3)S4 crash
CSCuv18439	CPUHOGS in chunk corruption crashinfos distracts troubleshooting
CSCva22819	Processor pool leak due to CCSIP_SPI_CONTROL
CSCuu49038	Base Station Ping fails from the router
CSCuy93968	Link Recovery not working

Open Bugs—Cisco IOS Release 15.6(1)T1

Table 23: Open Bugs—Cisco IOS Release 15.6(1)T1

Identifier	Description
CSCuy33802	Crash after the CWMP config download
CSCux47834	DHCP server crashed when updating DDNS entries
CSCuy29071	stacklow crash while configuring mDNS
CSCux68976	Crash in fib_fib_get_fib_tableid
CSCuy33991	Router crash after tunnel interface goes up and BGP adjacency is set up
CSCuo70505	ZBFW: Crash@fw_tcp_cleanup_ooo_q after sending heavy traffic
CSCuw75695	Router crash due to Process = SSS Manager
CSCuv86229	Interrupt stack overrun and crash due to recursive tunnel lookup, Part 2
CSCux99007	crash at hqf_centralized_pak_dequeue

Identifier	Description
CSCuu98027	onepk memory corrupt crash when repeating sh policy-map
CSCux07723	Router crash when ISP removes the patch cords connected to Gig 0/2
CSCuy34361	SSH V1 periodically crashes when displaying large volumes of data
CSCuy00161	DSP crashed when dialing the masked # of

Open Bugs—Cisco IOS Release 15.6(1)T

Table 24: Open Bugs—Cisco IOS Release 15.6(1)T

Identifier	Description
CSCuw84614	CUBE SP match-address ^.* regex causes Router CLI to hang
CSCuu46659	Display warning before saving config that can trigger routing flap
CSCuw64684	Packet loss observed during oversubscription of QOS in c5921
CSCuw55129	vlan tag removed kernel-2.6.32-504.23.4.el6.i686 and later
CSCuw25009	call-home msg triggered by DS isn't sent out
CSCuv96688	Unexpected call-home msg truncate log
CSCux03010	Longest Idle voice hunt group is not working as expected on CME 10.5
CSCuw58631	Crypto fragmented traffic may cause an ISM-VPN failure
CSCuv98094	I/O pool not freed soon enough and kept running out when it is depleted
CSCup31456	Input queue of Dialer interface is wedged
CSCuv01607	Invalid spi, Attempt to use contiguous buffer as scattered, Full queue
CSCux04108	ISM drops fragmented traffic if virtual-reassembly configured (2)
CSCuw90008	ISM is stuck during installation of GETVPN policy
CSCuw86250	ISM: Fragmented ESP packet reassembled+decrypted but not forwarded
CSCuw86293	ISM: GRE over IPsec double account packets input on Tunnel interface
CSCut97977	More CPU with Reventon for jumbo packet ping traffic
CSCut16273	On ISM with no ip cef session fails with mem leak after clear crypt ses
CSCux00363	Router crash when freeing FW SID
CSCuw08247	Smart Init needs to assign more memory to the IO pool when using ISM-VPN

Identifier	Description
CSCUw94105	crypto_engine ip packets processing issue with 'non-zero' ip precedence
CSCUw02624	IOS:Cannot periodically establish SSL connection
CSCUx07523	ISR crash when reaching crypto bandwidth limit
CSCUx08101	ISR crash with reaching maximum crypto bandwidth limit
CSCUv22733	XML cannot be parsed from IOS
CSCUv42644	Add support for cwmp wan default on dot1q ethernet sub-interfaces
CSCUw77959	1801M - %DATACORRUPTION-1-DATAINCONSISTENCY: copy error
CSCUr64384	901:IP over DHCP failed when dynamically change from static to dhcp ip
CSCUw95697	Crash due to DHCP.
CSCUr83620	DHCP configured interface transitions to static after interface flap
CSCUv86130	DHCPv6 Traceback message configured IPv6 DHCP client
CSCUx06571	Memory Leak with DHCPv6 server
CSCUx06944	IPv6 over PPPoE: delay to update routing table
CSCUt35474	authentication open does not work on switch port of C800 router
CSCUv22078	C881W: Inconsistent behaviour with Guest PC plugged behind Avaya Phone
CSCUv91653	C891F MAB slow to authenticate after link state change
CSCUu15851	DHCP relay does not work for 2nd authenticated host on multi-auth port
CSCUt23908	HWIC loses connectivity to IP's outside subnet when 802.1x process done
CSCUw90662	MODEMPASS usage doesn't show up in show call active voice brief output
CSCUw12141	show ip egirp topology all-links or prefix/mask doesn't delete correctly
CSCUw43115	CSR1Kv XE 3.13.3S Crashed on clearing ip ospf process
CSCUw53679	Dialer interface is introducing an extra decrement of IPv6 TTL value
CSCUv86229	Interrupt stack overrun and crash due to recursive tunnel lookup, Part 2
CSCUx06124	Part of records lost after export by FNF from MMA punt/inject path
CSCUu41771	members in a 2960 cluster unable to save configuration in IOS 15.x
CSCUv36677	IOS allows RC4-MD5 and RC4-SHA1 SSL ciphers to be negotiated by default
CSCUu98020	Asymmetric carrier delay does not work on ASR1K
CSCUs76858	IPS auto update failed, Internet links goes down and comes up

Identifier	Description
CSCut70749	%SYS-2-NOBLOCK: may_suspend with blocking disabled. -Process= 'IP Input'
CSCuw52464	ISR reload with info file for FW feature set
CSCuw40391	IPS: Crash@ips_dp_delete_half_open_session Part II
CSCut42121	Remove the IPS from show license feature list
CSCuu95635	1941 15.4(2)T Crash System returned to ROM by bus error at PC 0x26183C40
CSCup94022	CWS: WL: Crash seen after 'no whitelist down' during XML Download
CSCuv61789	ISR CWS Connector stalling on large downloads
CSCuu82082	Memory corruption crash due to cont_scan_display_session
CSCuu19587	Tracebacks and TFO frame errors seen with WAAS-Ex, ISM-VPN and GetVPN
CSCuu25580	VTY0-4 lines are modified if WLC is access via Web UI.
CSCuw49281	webui transport configuration caused router to crash
CSCuu77403	%LINK-4-TOOBIG Messages Seen on ISR 3945 with L2TPv3
CSCuw37949	BFD goes down when applying ACL
CSCuw89081	Extended ACL applied on Line VTY does not match traffic by destination
CSCuw15904	High CPU due to IP Input in specific tunnel traffic
CSCus03761	Stack overflow crash @ ip_epm_proxy_slow_check.
CSCuu48675	IPv6 PBR ACL does not match on the DSCP being set by input class-map
CSCuw08398	Tunnel Tracebacks observed when changing the PFR loopback address
CSCut92547	Crash at pp_delete_socket
CSCuu12283	CUBE failed to create DP session on STBY for Webex flow
CSCuw65318	Cube is not passing REFER on second transfer attempt
CSCuw76689	CUBE SIP crash when x-route-tag option in Via header is received
CSCuw28957	DMVPN Hub has no Crypto Sockets in Listen state
CSCuw56669	DMVPN Phase3 OSPF Broadcast: NHO addition fails - insufficient resources
CSCux00183	Need documentation around flow restrict command for ezvpn
CSCuw95699	Traffic dropping after receiving TEK rekey on ISRG2 GM
CSCuw82187	IPSec MIB: Global IPsec Traffic counters are reported incorrectly
CSCuw32333	DMVPN w/ IKEv2 Flaps with PFS and Onboard CE enabled

Identifier	Description
CSCuu60689	Packets dropped by ingress ACL when IPSec + ACL configured for IPv6
CSCUw36170	System will hang if system is power cycled during FPGA image upgrade
CSCUv81298	LFA SPF causes cpuhog and crash in scaled test with 400 nodes
CSCUw61892	MTU-Size problems with ppp-max-payload enabled on c887VA
CSCUw15247	C891F BRI: Q921 frame exchange is suddenly stopped
CSCUv58273	Leased-line BRI does not come up on boot
CSCUq68795	AP failed to reload the access point with the autonomous software image
CSCUu17770	C887VA- Controller output not displayed correctly.
CSCUu49912	Incoming packets from VDSL link discarded under high load
CSCUw81524	Latency values are more for tx-ring 2 than tx-ring 64
CSCUw49668	c897VAB: Bitloading is not working correctly affects SRA
CSCUv06763	c897VAB: Bitswap is not working correctly
CSCUs53310	dhcp relay for ip phones not forwarded out
CSCUu90215	Energywise output displays wrong values
CSCUw87040	Inconsistent reloads seen while booting C1905
CSCUv24993	NM-1t3/E3 input queue wedge on 3900e platform
CSCUu86321	Tx hang on 2951's GigabitEthernet IF
CSCUw46836	ehwic-1ge-sfp reports HWIC_HOST-1-RX_CRC_ERROR messages after CSCUo71154
CSCUj86253	2900 w/ Multiple EHWIC-4ESG-P's and L2TPv3 via SVI's drops 50% multicast
CSCUw96558	EHWIC-4ESG duplicated mac address table entries
CSCUu16523	NDR for given packet size is not within the reference range
CSCUu88260	no form of ipv6 mld snooping vlan commands are lost after router reload
CSCUp91713	Wrr-Queue Strict Priority Scheduling issue
CSCUu34058	Memory Fragment on SM-X-1T3/E3= with Serial Background process
CSCUv79612	L2TP VPN traffic not passing through Virtual-PPP interface
CSCUs82816	Crash in tup_lookup_func in Scansafe feature
CSCUw65792	CWS not associating CN with nested groups when ' , ' (comma) is used
CSCUx05779	LISP possible segmentation fault with DDT enabled

Identifier	Description
CSCuw97075	perf-monitor service policy does not with connection initiator commands
CSCuv18439	CPUHOGS in chunk corruption crashinfos distracts troubleshooting
CSCuv74405	Hosts on interface vlan don't get properly configured
CSCuw20313	Router crash configuring IPv6 over IPv4 tunnel on NEMO tunnel template
CSCut45177	CWS HTTPs traffic fails to load on ISR configured with NVI
CSCuu21270	Traceroute freezes the router with ip nat enable configured
CSCuj05278	Crash with NBAR enabled
CSCuw29957	NBAR: export sys call is not protected from export of length 0
CSCuw17061	Policy attachment failed after downgrade the NBAR protocol-pack
CSCur12200	OnePK Pfrv3 - MCP 10/1, Java CD8 - tunnel being configured as source int
CSCuw97020	PfRV3: Syslog not working for application based policy
CSCuv94212	2547oDMVPN:RD and RT Must Match on PE Routers for Spoke to Spoke Tunnels
CSCuu98027	onepk memory corrupt crash when repeating sh policy-map
CSCux04828	[3750X-dot1x] dACL is not taking precedense over interface ACL
CSCux02108	Process watchdog at 'OER Master Controller'
CSCuw65212	Process watchdog crash on 2900 seen with oer_mc_cfg_command
CSCuw41628	Bad chunk reference count, refcount FFFFFFFF
CSCuv46225	Dead memory leak SCCP TLS CLIENT
CSCuw15256	IOS PKI: Certificate validation fails after reload
CSCuw41120	IOS PKI: Temp Self-signed sequence number encoded as signed integer
CSCuw95805	Signed Tcl Script triggers the crash of router
CSCuu82355	Cube should send disassociation time while sending metadata for BYE.
CSCuw65203	Self reload does not happen in some condition.
CSCux07723	Router crash when ISP removes the patch cords connected to Gig 0/2
CSCuv22778	SAF forwarder patterns not reachable after client reboot
CSCux06510	no trap is generated with 'snmp-server enable traps config-copy'
CSCuw73501	Clientless re-writer issue on router
CSCtg60310	While SSLVPN tcp connection terminats, related buffers may not released

Identifier	Description
CSCUw75695	Router crash due to Process = SSS Manager
CSCUv41355	Unable to telnet -- No wild listener: port 23
CSCUw60760	GCFM: chunk memory corruption
CSCUu53605	dm814x ecan - tec 10.3.3.0 release commit
CSCUu40514	Module hung observed on NIM-4FXS or NIM-4FXO after soak test
CSCUv90724	TCL Script wont honour leg senddigit duration
CSCUw96640	router crashed multiple times at mc_make_packets_DQ
CSCUs45019	Media loop detection failure
CSCUv10440	Crash in mgcp_endpt_get_by_callp during regular operations.
CSCUr58834	Modem relay calls not establishing on IPv6 base
CSCUw39983	4G router stops forwarding traffic once it is loaded
CSCUv89892	MC7350 modem remains on 'LOW POWER MODE'
CSCUx00500	Traffic stopped after Shut/No Shut on cellular interface

Resolved Bugs—Cisco IOS Release 15.6(1)T2

Table 25: Resolved Bugs—Cisco IOS Release 15.6(1)T2

Identifier	Description
CSCUy21675	Crash@username_command with service pwd-encryption & common-criteria cfg
CSCUx69225	Mac filtering option "None" sends blank password
CSCUy01051	MPLS VPN over mGRE Routing issue after reload
CSCUl15273	AN Link local Tunels not deleted after no autonomic is issued
CSCUy04454	AN: "autonomic connect" interface is not in AN VRF after int reconf.
CSCUy02477	AN: AN creating channel in autonomic connect interface
CSCUx51388	AN: CD punting is getting enabled after save & reload without autonomic
CSCUz50338	AN: Crash during bootstrap at hwidb_iftype_unlist
CSCUw79036	AN: Device id/address is not getting populated properly beyond 127
CSCUy87056	AN: Device receives & keeps multiple certificates

Identifier	Description
CSCux80195	AN: Manual tunnel creation fails after few ACP flap
CSCuy86757	AN: NTP not syncing in recent images
CSCuw89680	AN: Router crashed while recreating channel after save & reload
CSCuw65651	AN: Router crashes after defaulting interface with AN EFP
CSCux75878	AN: UDI getting truncated in "show autonomic registrar devices accepted"
CSCuv87599	Manually entered IKEv2 crypto profile not NVgen-ed with AN active
CSCuy03054	ASR1K IOSd may crash in BGP Acceptor process due to segmentation fault
CSCuy20481	Crash due to stale pointer after removing vrf command export AF map
CSCux76332	Deleting a statement in export map, removes other statement
CSCuy03504	Incorrect prefix count upon clearing bgp peering
CSCux62094	Routes are not exported from vrf to global due to incorrect export limit
CSCuy33157	C5921 crashes when access point disabled.
CSCuy44757	c5921 support for VTY 5-15
CSCuw55129	vlan tag removed kernel-2.6.32-504.23.4.el6.i686 and later
CSCuz62786	ISR4K sccp based transcoding hanging dsp-session_leg on data-plane
CSCuv74256	IOS: HMAC key miscalculated with DH Group 21 and IPSec PFS enabled
CSCux68976	Crash in fib_fib_get_fib_tableid
CSCuw52464	ISR reload with info file for FW feature set
CSCuy38707	After RSP switchover, BFD hangs for up to 10 minutes before converging
CSCuv86229	Interrupt stack overrun and crash due to recursive tunnel lookup, Part 2
CSCuz41999	Optimizing the EoGRE endpoint creation/deletion
CSCut92547	Crash at pp_delete_socket
CSCuy48358	Crash during SIP subscribe notify ACK
CSCux25412	Crash with SIP subscribe notify enabled
CSCuz64285	Cube fails to send the SIP Error code response
CSCuy19807	IOS-XE CUBE Hold/Resume Fails when negotiating video
CSCuz69975	Under load crash is seen in CVP REFER_PASSTHRU scenario
CSCuw99554	ASR crashes on removing the sub-interface on HSRP active router

Identifier	Description
CSCux09048	flow restrict on backup crypto map causes traffic to fail
CSCuz14788	New reg invoke PKI function breaks the GETVPN CRL Checking feature
CSCux25628	Diffie Hellman computation fails due to leak in crypto engine
CSCuv31981	ISR Router Crashes When Trying to Delete a Freed SA
CSCuq91346	Routers crashed when enabling NFAS under the T1 controller
CSCux29806	ISIS routes are not not installed in the routing table from isisdatabase
CSCux89502	PPPoE on MLPPP SHDSL links crashes router: packet in free block
CSCuw15247	C891F BRI: Q921 frame exchange is suddenly stopped
CSCuw49973	%REGISTRY-3-STUB_CHK_OVERWRITE tracebacks seen @ pq3_tsec_subsys_init
CSCut86321	Tx hang on 2951's GigabitEthernet IF
CSCuw46836	ehwic-1ge-sfp reports HWIC_HOST-1-RX_CRC_ERROR messages after CSCuo71154
CSCut34058	Memory Fragment on SM-X-1T3/E3= with Serial Background process
CSCuy23951	Priority Packets Randomly Fall Under Class-Default Over *VWIC*
CSCuw14948	HSRP vip ping failure after power off one side Router with SM module
CSCus72718	L2TPv3 session pending between 2 devices
CSCus82816	Crash in tup_lookup_func in Scansafe feature
CSCut45177	CWS HTTPs traffic fails to load on ISR configured with NVI
CSCuy03680	V3Lite IGMP packets sent instead of V3 when UDP based feature is present
CSCuy45804	MCAST: PIM issue tracking RP source address
CSCuz03646	match protocol "netbios-dgm" CLI not working for c800 NPE images
CSCuy31450	Router crashes after reload with protocol pack auto update config
CSCuy71712	FlexVPN: Spoke spawns a virtual access to connect to the hub
CSCuy04757	Crash@ospfv3_router_process_mgd_timers on shut/no shut of sub-intf
CSCuy32709	R-LFA Tunnels not established on setting DS required attribute
CSCux19034	XE3.16 crashes when conf "distribute-list" under router ospf and sh run
CSCuw53025	Cat3850 reports "Error, ECI has run out of event blocks" message
CSCuu25580	VTY0-4 settings are modified if switch is accessed via WebUI
CSCuy85870	Wrong TD next-hop for overlapping prefixes

Identifier	Description
CSCuY13701	IOS PKI: Crash while editing a VRF aware TP with enrollment profile
CSCuY55849	RTR installs the ISIS(or OSPF) route with Higher Metric in the RIB
CSCuY07343	AN : ipv6 global prefixes are seen in the cisco_autonomic vrf table
CSCuW81424	AN: Router crashes in scale hub & spoke setup
CSCuY39110	ESRST voice gateway crash when SCCP phone goes off-hook
CSCuW57124	Cat3750 stack switch memory leak in MallocLite and Dead memory
CSCuY38709	Memory leak with watcher_create_common.
CSCuY34361	SSH V1 periodically crashes when displaying large volumes of data
CSCuY54623	Evaluation of all for OpenSSL March 2016
CSCuZ52528	Evaluation of all for OpenSSL May 2016
CSCuX03041	LDP NSR: Session Flaps on Standby RP Due to MD5 Authentication Failure
CSCuU71299	MPLS LDP flap with %TCP-6-BADAUTH: No MD5 digest
CSCuV41355	Unable to telnet -- No wild listener: port 23
CSCuS46844	802.1x 3650 Radius Response not picked up by AAA code
CSCuX56741	2951 crashes every 15 min due to stacklow
CSCuZ03079	ISR-4K Processing Error: H323 Setup parameter "mediaWaitForConnect TRUE"
CSCuY65330	RSVP Reservation Failure Causes Call Drop on Voice to Video Calls
CSCuY15638	Voice ports are stuck in EM_PARK state in e&m-melcas-delay
CSCuZ52693	ISR 4K Memory Holding in CCSIP_SPI_CONTROL
CSCuS03761	Stack overflow crash @ ip_epm_proxy_slow_check.
CSCuY83854	deb voip application vxml with 1 cvp call caused buffer overflow
CSCuZ17364	DTMF Type ahead buffer on GW with Nuance not working

Resolved Bugs—Cisco IOS Release 15.6(1)T1

Table 26: Resolved Bugs—Cisco IOS Release 15.6(1)T1

Identifier	Description
CSCuT74192	bfd session not coming up after interface in vrf shut and no shut

Identifier	Description
CSCux13904	Bolt: Modem stays in boot and hold mode after f/w upgrade
CSCux18010	Cisco Networking Services Sensitive Information Disclosure Vulnerability
CSCuw02624	IOS:Cannot periodically establish SSL connection
CSCux83133	IPv6 intermittent CEF issue
CSCuy04058	ISR-4K IOS CFB resources get into hung state (inactive)
CSCuv27265	ENH: Enable support for TLSv1.1 & TLSv1.2 for http secure server/client
CSCuv36677	IOS allows RC4-MD5 and RC4-SHA1 SSL ciphers to be negotiated by default
CSCut44432	Chunk Manager Leak due to PROTO_COUNTER
CSCux00363	Router crash when freeing FW SID
CSCup94022	CWS: WL: Crash seen after 'no whitelist down' during XML Download
CSCuu82082	Memory corruption crash due to cont_scan_display_session
CSCuv75728	CUBE crashed @ __be_sipSPI_ipip_antiTrombone, Antitrombone Call
CSCuw90105	Found multiple sessions in MF multiple recording server scenario
CSCux33431	VDSL Controller stuck and crash with c897VAB
CSCuw65059	mfib on the line card stuck in Connecting state
CSCux34430	Traffic not flowing through for MAG MNP's with PBR
CSCur51997	Packets coming from outside interface NOT translated
CSCux10171	[3.17] KinPin Crashed when configuring custom HTTP
CSCuo61229	ASR1002 Crashed after 'show pfr master active running'
CSCuu30930	ENH IOS PKI: Client should accept content-type x-x509-next-ca-cert
CSCuw41120	IOS PKI: Temp Self-signed sequence number encoded as signed integer
CSCux17298	ISR-G2: Gigabit Ethernet interface is always in shutdown after reload
CSCuw51653	SIP SRST router in eSRST mode reject phone registration due to + DN
CSCuw96640	router crashed multiple times at mc_make_packets_DQ
CSCux36081	4XXX / ISR3 xcoder fails when stream is send only receive only
CSCuv19830	VOIP_RTCP Traceback on Voice-GW affecting calls sporadically
CSCuy16501	After IOS upgrade users hear static during external calls
CSCux54794	Configuration under the E&M voice-ports are missing after the reload

Identifier	Description
CSCux45574	DSP channel not released on ISRG3 incoming FXO call
CSCux88265	DSP errors seen and audio fails for MGCP-FXO to IP Phone call
CSCux22874	On demand PCM captures needs to be available on ISR4k routers
CSCuu25704	Memory corruption in the IO pool when a t38 fax gateway receives t37 fax

Resolved Bugs—Cisco IOS Release 15.6(1)T

Table 27: Resolved Bugs—Cisco IOS Release 15.6(1)T

Identifier	Description
CSCUw06084	DTMF not getting recognized on ISR G3 when using TCL Script
CSCUw33578	Traceback and router crash seen in SIP SNR feature
CSCUw99512	3900e build failure in t_base_6, v156_1_t_throttle due to CSCUw26842
CSCUw28058	CWMP: RemoteHost parameter can't be NULL on creating portmapping entry
CSCUw28759	Duplicate Entries created in PortMapping Table
CSCUw26842	ManageableDevice Table does not get updated on removing an End device
CSCUw82081	LISP CEF: fwd-native routes gleaned for LISP not forwarded natively
CSCUw19340	Mixed Mode: Tunnel changes for mixed mode support for VTI.
CSCUv04831	PIM tunnel does not reuse inactive IDB
CSCUw67113	crash seen in CVP load REFER scenarios
CSCUv06763	c897VAB: Bitswap is not working correctly
CSCUw60669	No negative reply sent by LISP MS with DDT peer offline
CSCUw40623	NBAR timer running for 7 weeks may trigger an unexpected reload
CSCUw51471	PfRv3 - SYS-3-CPUHOG process CENT-BR-green with 1 Traffic-class
CSCUw47130	STCAPP commands gets removed after reloading 43XX/44XX routers
CSCUw71493	XE317 - One way voice is heard on LMR half duplex call with SCCP phone



PART **III**

Related Documentation

- [Related Documentation, on page 121](#)



CHAPTER 9

Related Documentation

The following sections describe the documentation available for Cisco IOS Release 15.6M&T. This documentation set consists of software installation guides, Cisco IOS configuration and command references, system error messages, feature modules, and other documents.

Use these release notes with the documents and tools described in the following sections:

- [Cisco Feature Navigator, on page 121](#)
- [Notices, on page 121](#)
- [Communications, Services, and Additional Information, on page 123](#)

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