Cross Platform Release Notes for Cisco IOS Release 15.5M&T

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CHAPTER 4 **Features and Important Notes for Cisco IOS Release 15.5(2)T** **21**

Introduction and System Requirements

These release notes support Cisco IOS Release 15.5M&T. The release notes are updated with each 15.5M&T release to describe new features and related documents.

Cisco IOS Release 15.5M&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.

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Cross-Platform System Requirements

This section describes the system requirements for Cisco IOS Release 15.5M&T and includes the following sections:

Supported Hardware Platforms

Cisco IOS Release 15.5M&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 15.5M&T, see the Platform-Specific Information section.

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 15.5(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 8000 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 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.htm

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/pcgi-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

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 OL-30859-08major 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 15.5M&T supports the following Cisco series:

Cisco 800 Series Industrial Integrated Services Routers

Cisco IOS Release 15.5M&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 15.5M&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 15.5M&T supports the Cisco Connected Grid 4G LTE Module on the Cisco 1000 Series Connected Grid Routers (CGR1240 and CGR1120). Module options are noted below:

- Cisco CGR 1120 with CGM-4G-LTE-GA
- 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 15.5M&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 15.5M&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 15.5M&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 15.5M&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 15.5M&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 15.5M&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 15.5(3)M

These release notes describe the following topics:

New and Changed Information

This section lists the new hardware and software features supported in Cisco IOS Release 15.5(3)M:

New Hardware Features Supported in Cisco IOS Release 15.5(3)M

This section describes new and changed features in Cisco IOS Release 15.5(3)M. Some features may be new to Cisco IOS Release 15.5(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 15.5(3)M. 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 800 Series Industrial Integrated Services Routers

Cisco 800 Series Industrial Integrated Services Routers:

http://www.cisco.com/c/en/us/td/docs/routers/access/800/829/IR829-Release-Notes.html

Cisco 1000 Series Connected Grid Routers

Cisco 1000 Series Connected Grid Routers:

http://www.cisco.com/c/en/us/products/routers/1000-series-connected-grid-routers/index.html

Cisco 2000 Series Connected Grid Routers

Cisco 2000 Series Connected Grid Routers

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

Cisco 5900 Series Embedded Services Routers

Cisco 5900 Series Embedded Services Routers:

http://www.cisco.com/c/en/us/td/docs/solutions/GGSG-Engineering/15-5-3M/15-5-3M.html

New Software Features Supported in Cisco IOS Release 15.5(3)M

This section describes new and changed features in Cisco IOS Release 15.5(3)M. Some features may be new to Cisco IOS Release 15.5(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 15.5(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.

Auto-Custom

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/qos_nbar/configuration/xe-3s/qos-nbar-xe-3s-book.html

Crypto Serviceability

The Crypto Serviceability feature enhances the serviceability and debugging of the Cisco Integrated Services Routers Generation 2 (ISR G2) routers.

Custom App Based on Any NBAR2 Extracted Field

The Custom App Based on any NBAR2 Extracted Field feature provides additional custom protocol capabilities to NBAR2, which are provided through Protocol Packs in accordance with Cisco's Protocol Packs release policy.

EIGRP IWAN Simplification

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-iwan-simpl.html

Enabling Absolute Timestamp First and Last Fields

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-enhanced-igrp.html

GETVPN GDOI/COOP MIBS

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

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

ICE Infra and ICE-Lite Support on XE Platforms

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-ice-lite.html

ISM-VPN Hardening

The Cisco VPN Internal Service Module (VPN ISM) is a compact, versatile high-performance VPN blade for the Cisco Integrated Services Routers Generation 2 (ISR G2). It provides up to three times better performance for IPsec VPN encrypted traffic. The ISM-VPN Hardening feature enhances serviceability and debugging by displaying the following information in the show crypto engine accelerator statistics and show crypto ruleset commands:

- Policy database to identify the policy downloaded to ISM.
- Statistics from ISM on Cisco IOS software.
- Count of all counters and exceptions generated from ISM and on Cisco IOS driver.
- Datapath information to Ace-crashinfo.

L3 Custom Any IP/Port

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

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

LLDP MED Support on ISR G2

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

c: converted%20files 15.5m&t 155-3mnewf www.cisco.com c en us td docs ios-xml ios cether configuration 15-mt ce-15-mt-book ce-lldp-multivend.html
www.cisco.com/c/en/us/td/docs/ios-xml/ios/cether/configuration/15-mt/ce-15-mt-book/ce-lldp-multivend.html

Mid Call-Signaling Block: ReINVITE Consumption

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-midcall-reinvite.html

NBAR Protocol Pack Auto Update

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/qos_nbar/configuration/xe-3s/qos-nbar-xe-3s-book.html

NBAR2 Server-Name Custom Application

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/qos_nbar/configuration/xe-3s/qos-nbar-xe-3s-book.html

NBAR2 Visibility Dashboard

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/qos_nbar/configuration/15-mt/qos-nbar-15-mt-book/nbar2-vis-dashbd.html

NPTv6

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/ip6-natpt.html

One-Sided Update: Changing the IP Address on the Inside While not Modifying the Call on the Outside

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-edupdate-block.html

PfRv3 Support for Path of Last Resort

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/pfrv3/configuration/15-mt/pfrv3-15-mt-book/pfr-path-last-rst.html

Potentially Match

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/qos/command/qos-cr-book/qos-m1.html

QoS on Dialer with MLPPP

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/qos_latjit/configuration/15-mt/qos-latjit-15-mt-book/qos-mlppp-dl.html

Remote CAC

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/voice/cube_proto/configuration/15-mt/cube-proto-15-mt-book/voic-cub-cac.html

Remote PFA

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/voice/cube_sipsip/configuration/15-mt/cube-sipsip-15-mt-book/voi-cub-cac.html

Routing Protocol for Low Power and Lossy Networks

Low Power and Lossy Networks (LLNs) are a class of network in which both routers and their interconnect are constrained. LLN routers typically operate with constraints on (any subset of) processing power, memory and energy (battery), and their interconnects are characterized by (any subset of) high loss rates, low data rates, and instability. LLNs comprises of anything from a few dozen to thousands of LLN routers, and support point-to-point traffic (between devices inside the LLN), point-to-multipoint traffic (from a central control point to a subset of devices inside the LLN) and multipoint-to-point traffic (from devices inside the LLN towards a central control point).

The Routing Protocol for Low Power and Lossy Networks feature specifies the IPv6 routing protocol for LLNs, thereby providing a mechanism whereby multipoint-to-point traffic from devices inside the LLN towards a central control point, and point-to-multipoint traffic from the central control point to the devices inside the LLN, is supported. Point-to-point traffic is also supported.

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

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

Selective Fine Grain

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

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

Show Unclassified Port Status

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/qos_nbar/configuration/xe-3s/qos-nbar-xe-3s-book.html

SRND Support

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

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

SSL - TLS 1.2 Support

Cisco IOS SSL uses OpenSSL to perform SSL handshakes. To be on par with the standards in the industry and also to cater to your requirements for TLS 1.2 Cisco IOS SSL supports TLS 1.2 through the SSL - TLS 1.2 Support feature.

Support Header Passthrough for Additional SIP Message Types

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-info-messages.html

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/voice/cube/configuration/cube-book/voi-cube-paid-ppid-privacy-pcpid-pauri-headers.html

V.150.1 MER MR on SIP Gateway

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/voice/fax/configuration/15-mt/vf-15-mt-book/V150_1_MER_Modem_Relay_Support_for_TDM_to_SIP_Gateway.html

MIBs

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

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

If the Cisco MIB Locator does not support the MIB information that you need, you can obtain a list of supported MIBs and download MIBs from the Cisco MIBs page at the following URL:

http://www.cisco.com/public/sw-center/netmgmt/cmtk/mibs.shtml

To access the Cisco MIB Locator, you must have an account on Cisco.com. If you have forgotten or lost your account information, send a blank e-mail to cco-locksmith@cisco.com. An automatic check will verify that your e-mail address is registered with Cisco.com. If the check is successful, account details with a new random password will be e-mailed to you. Qualified users can establish an account on Cisco.com by following the directions found at this URL:

http://tools.cisco.com/RPF/register/register.do

Important Notes

The following sections contain important notes about Cisco IOS Release 15.5M&T:

Maintenance Operation Protocol

Maintenance Operation Protocol (MOP) is used for uploading and downloading system software, remote testing and problem diagnosis. In certain feature-sets and licenses, the **no mop enabled** command might not be available on a device. Use the **show subsys | inc mop | decnet** command to verify if MOP is available. If MOP is listed, it indicates MOP is enabled (by default) and must be disabled via the **no mop enabled** on the physical interface. If MOP is not listed, it indicates that MOP is not available on the device and the protocol is removed from the software.

Logging into the Embedded AP and Etherswitch Modules

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

authentication and dot1x Commands

All **authentication** and **dot1x** commands must be removed from the Cisco 1921 Series Integrated Services Routers to disable dot1x. If **authentication port-control auto** and **dot1x pae authenticator** commands are only removed, the interface does not pass traffic, unless the interface is shut.

Field Notices and Bulletins

- Field Notices—Cisco recommends that you view the field notices for this release to see if your software or hardware platforms are affected. You can find field notices at
  http://www.cisco.com/en/US/support/tsd_products_field_notice_summary.html
- Bulletins—You can find bulletins at
  http://www.cisco.com/c/en/us/products/ios-nx-os-software/ios-software-releases-listing.html

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

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

- New and Changed Information, on page 21
- MIBs, on page 27
- Important Notes, on page 27

New and Changed Information

This section lists the new hardware and software features supported in Cisco IOS Release 15.5(2)T:

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

This section describes new and changed features in Cisco IOS Release 15.5(2)T. Some features may be new to Cisco IOS Release 15.5(2)T but were released in earlier Cisco IOS software releases. Some features may have been released in earlier Cisco IOS software releases and have been changed in Cisco IOS Release 15.5(2)T. To determine if a feature is new or changed, see the feature information table at the end of the feature module for that feature. Links to feature modules are included. If a feature does not have a link to a feature module, that feature is documented only in the release notes.

Cisco 5900 Series Embedded Services Routers

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

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

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

This section describes new and changed features in Cisco IOS Release 15.5(2)T. Some features may be new to Cisco IOS Release 15.5(2)T but were released in earlier Cisco IOS software releases. Some features may have been released in earlier Cisco IOS software releases and have been changed in Cisco IOS Release 15.5(2)T. Links to feature modules are included. If a feature listed does not have a link to a feature module, that feature is documented only in the release notes.

Adaptive QoS Manageability

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

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

AVC in L2 Transparent Mode

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

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

BGP AS-Override Split-Horizon

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute_bgp/configuration/15-mt/irg-15-mt-book/irg-bgp-as-override-split-horizon.html

Configurable Export Interval in EZPM

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

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

Configuring Multiple Policies on an Interface

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

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

CPA Support in CUBE

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/voice/cube/configuration/cube-book/voi-cube-cpa.html

DSCP-Based Layer 3 Custom Applications

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

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

Dynamic Extracted Fields

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

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

EIGRP OTP Support to Propagate SGT

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

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

Enabling Absolute Timestamp First and Last Fields

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

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

Enhanced ART Metrics for Concurrent Connections

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

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

Export Absolute Timestamp

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

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

Fine-Grain NBAR for Selective Applications

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

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

FlexVPN-IKEv2 CoA for QoS and ACL

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

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

FlexVPN RA-Aggregate Auth support for AnyConnect

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

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

High Availability Support for REFER Call Flows Upon SSO

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/voice/cube/configuration/cube-book/voi-stateful-switchover.html

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

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/voice/cube/configuration/cube-book/voi-cube-dsp.html

High Availability for Xcoded Calls With DTMF and VCC

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/voice/cube/configuration/cube-book/voi-cube-dsp.html

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

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

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

IKE Fragmentation Adhering to RFC

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

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

ISR-G2 EVC Integrations

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

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

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

IOS IPS Auto Update Functionality

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

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

IPV6 MLD Snooping Feature on ISR Switch Ports

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

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

ISIS IPv6 Multiprocess Support

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

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

Kaplan Draft ENUM Source-URI Enhancement

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

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

Mapping of Address and Port Using Translation

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

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

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

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/voice/cube/configuration/cube-book/voi-sip-param-mod.html

NBAR Custom Applications Based on DNS Name

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

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

NBAR Customization Assistance Based on SSL or HTTP

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

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

Observation Point

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

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

OSPFv3 Autoroute Exclude

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute_ospf/configuration/15-mt/iro-15-mt-book/iro-v3-autoroute-exclude.html

OSPFv2/v3 RFC5243 Database Exchange Summary List Optimization

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

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

PFA Integration with Adaptive QoS

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

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

PKI Credentials Expiry Alerts

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

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

PKI MIB

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

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

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

PfRv3 Serviceability-Show Last Five Alerts

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

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

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

PfRv3 Support for Transit Hub

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/pfrv3/configuration/15-mt/pfrv3-15-mt-book/pfrv3-transit-site.html

PfRv3 Transit Site Support

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/pfrv3/configuration/15-mt/pfrv3-15-mt-book/pfrv3-transit-site.html

PMIPv6 LMA

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

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

QoS on EVC and QinQ Marking Support

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

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

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

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

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

Sequence/ Sort dial Peers

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

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

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

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/voice/cube/configuration/cube-book/voi-sip-param-mod.html

SSH Algorithms for Common Criteria Certification

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

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

SSL VPN MIB

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

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

TrustSec SGT Caching

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

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

TrustSec SGT Caching Support for ISR-G2

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

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

X.509v3 Certificates for SSH Authentication

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

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

MIBs

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

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If the Cisco MIB Locator does not support the MIB information that you need, you can obtain a list of supported MIBs and download MIBs from the Cisco MIBs page at the following URL:

http://www.cisco.com/public/sw-center/netmgmt/cmtk/mibs.shtml

To access the Cisco MIB Locator, you must have an account on Cisco.com. If you have forgotten or lost your account information, send a blank e-mail to cco-locksmith@cisco.com. An automatic check will verify that your e-mail address is registered with Cisco.com. If the check is successful, account details with a new random password will be e-mailed to you. Qualified users can establish an account on Cisco.com by following the directions found at this URL:

http://tools.cisco.com/RPF/register/register.do

Important Notes

The following sections contain important notes about Cisco IOS Release 15.5M&T:

Field Notices and Bulletins

- Field Notices—Cisco recommends that you view the field notices for this release to see if your software or hardware platforms are affected. You can find field notices at
  http://www.cisco.com/en/US/support/tsd_products_field_notice_summary.html
- Bulletins—You can find bulletins at
  http://www.cisco.com/c/en/us/products/ios-nx-os-software/ios-software-releases-listing.html

Logging into the Embedded AP and Etherswitch Modules

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

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

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

- New and Changed Information, on page 29
- MIBs, on page 34
- Important Notes, on page 35

New and Changed Information

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

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

This section describes new and changed features in Cisco IOS Release 15.5(1)T. Some features may be new to Cisco IOS Release 15.5(1)T but were released in earlier Cisco IOS software releases. Some features may have been released in earlier Cisco IOS software releases and have been changed in Cisco IOS Release 15.5(1)T. To determine if a feature is new or changed, see the feature information table at the end of the feature module for that feature. Links to feature modules are included. If a feature does not have a link to a feature module, that feature is documented only in the release notes.

Cisco 897VAB-K9 Integrated Services Router

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

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

Cisco C891-24X/K9 Integrated Services Router

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

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

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

This section describes new and changed features in Cisco IOS Release 15.5(1)T. Some features may be new to Cisco IOS Release 15.5(1)T but were released in earlier Cisco IOS software releases. Some features may have been released in earlier Cisco IOS software releases and have been changed in Cisco IOS Release 15.5(1)T. Links to feature modules are included. If a feature listed does not have a link to a feature module, that feature is documented only in the release notes.

8K GM Scale Improvement

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

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

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

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

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

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

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

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

BGP - mVPN Source-AS EC Filtering

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

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

BGP - Subcodes for BGP Cease Notification

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

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

Call Home

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

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

Call Home V3

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

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

Callhome V2 enhancements

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

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

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

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

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

Cisco Smart License Client

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

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

Clear Crypto Session (IKEv2/IPsec) via RADIUS Attribute

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

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

NBAR Coarse-Grain Classification

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

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

CUBE (ENT) Dial-Peer and Call Handling Enhancements

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

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

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

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

Diagnostic Signatures

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

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

Digital Optical Monitoring (DOM) Support on CGR1000 Series Routers

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

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

DSP SNMP MIB

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

URL:

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

Dynamic Mobile Network Assignment

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

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

ENUM enhancement - Per Kaplan Draft RFC

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

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

EST Client Support

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

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

Firepower Threat Defense

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

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

GETVPN G-IKEv2

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

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

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

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

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

IOS OSPF - OSPFv2 Autoroute Exclude

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

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

IOx on c800/c400 Series Routers

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

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

LISP Data Plane Security

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

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

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

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

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

Network Delay for Long Lived Connections, TCP Re-transmissions

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

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

OCSP Response Stapling

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

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

On-device Management for IOS Security Features

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

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

onePK 1.4 IP Tunnel Service Set

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

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

onePK Data Path Segmentation Support for ISR-G2

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

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

PfRv3 Zero SLA Support

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

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

RFC430x IPsec Support Phase-2

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

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

Smart Licensing

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

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

SSL Support for HSM/ACT2

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

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

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

Transport Hierarchy (TPH) MQC Support

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

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

Virtual WPAN Interface

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

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

VM Support including Flex Licensing on 5921 with x86 Architectures

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

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

VRF Awareness on PMIPv6 MAG

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

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

Web-Based Custom Protocols Scalability

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

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

Whitelist Download from Tower

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

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_data_cws/configuration/15-mt/sec-data-cws-15-mt-book/cws-whitelist-towr-telmtry.html

MIBs

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

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

If the Cisco MIB Locator does not support the MIB information that you need, you can obtain a list of supported MIBs and download MIBs from the Cisco MIBs page at the following URL:

http://www.cisco.com/public/sw-center/netmgmt/cmtk/mibs.shtml

To access the Cisco MIB Locator, you must have an account on Cisco.com. If you have forgotten or lost your account information, send a blank e-mail to cco-locksmith@cisco.com. An automatic check will verify that your e-mail address is registered with Cisco.com. If the check is successful, account details with a new random password will be e-mailed to you. Qualified users can establish an account on Cisco.com by following the directions found at this URL:

http://tools.cisco.com/RPF/register/register.do

Important Notes

The following sections contain important notes about Cisco IOS Release 15.5M&T:

Field Notices and Bulletins

- Field Notices—Cisco recommends that you view the field notices for this release to see if your software or hardware platforms are affected. You can find field notices at
  http://www.cisco.com/en/US/support/tsd_products_field_notice_summary.html
- Bulletins—You can find bulletins at
  http://www.cisco.com/c/en/us/products/ios-nx-os-software/ios-software-releases-listing.html

Logging into the Embedded AP and Etherswitch Modules

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

PART II

Caveats

CHAPTER 6

Bugs for Cisco IOS Release 15.5(3)M

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.
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 15.5(3)M10

Table 1: Resolved Bugs—Cisco IOS Release 15.5(3)M10

Caveat ID Number	Description
CSCuq20562	ISDN Memory Leak when PRI link flaps, crashes Router
CSCva46032	FlexVPN: Hostname in DHCP is incorrect when using AnyConnect
CSCve20850	asr1k is unable to recover from the tunnel flapping at scale for IKEv2 dmVPN/BGP
CSCvg56762	Cisco IOS and IOS XE Software Change of Authorization Denial of Service Vulnerability
CSCvh09266	SNMP SMALL CHUN memory leak seen on KS while getvpn scale testing 300 group 4800 gm
CSCvj92548	CSR1k-FlexVPN: Spoke to Spoke: Implicit NHRP entry due to expired resolution request handling.
CSCvk51433	Lisp router crash with enabling IPv6 and DHCP relay.
CSCvk54416	Change the order of BYE and NOTIFY with 200 OK sipfrag body for successful REFER passthru scenario
CSCvk56331	Initial contact in IKEv1 phase 2 rekey (QM1) causes all crypto sessions to drop
CSCvk58746	Unexpected reboot when ipv6 crypto map applied to several tunnel interfaces
CSCvm01689	Cisco IOS and IOS XE Software IP Ident Denial of Service Vulnerability
CSCvm08377	IPSEC in DOWN-NEGOTIATING on HSRP Standby router with local-address config
CSCvm76452	IPSec background crash while sending SNMP trap
CSCvn00218	Cisco IOS and IOS XE Software Session Initiation Protocol Denial of Service Vulnerability

Caveat ID Number	Description
CSCvn33127	ISAKMP SA is not deleted even if crypto config is deleted (IPsec NAT-T).
CSCvo66216	IPSec-Session count in "show crypto eli" reaches max causing VPN failure

Resolved Bugs—Cisco IOS Release 15.5(3)M9

Table 2: Resolved Bugs—Cisco IOS Release 15.5(3)M9

Caveat ID Number	Description
CSCvm54451	IPV6 prefix delegation issue in 881 router
CSCvm98100	External Interface on the PfR MC stuck in the shutdown state

Resolved Bugs—Cisco IOS Release 15.5(3)M8

Table 3: Resolved Bugs—Cisco IOS Release 15.5(3)M8

Caveat ID Number	Description
CSCus14734	IP SLA http operation with customizable status for return codes
CSCuv90519	Map doesn't get updated with socket change on local address change
CSCuw43115	CSR1Kv XE 3.13.3S Crashed on clearing ip ospf process
CSCux22473	IPv6 Tracking for route learned from IBGP Neighbor is Down.
CSCuy16723	EIGRP summary route not removed after disabling "redistribute connected"
CSCuy27746	CDP packet causes switch to crash due unexpected exception to CPUvector
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
CSCuy91126	POLARIS: IPSec FlexVPN PSK does not scale on asr1013/RP2/ESP100
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 atfer router reload
CSCvc14385	Missing FIB subblock causes crash when configuring vrf

Caveat ID Number	Description
CSCvc55378	ASR1k crashed while unconfiguring Netflow
CSCvc65604	VNET global vrf neighbor is down after an interface flap
CSCvc96709	Crash using EIGRP and DVTI with IKEv2
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
CSCvd22385	IKEv2 when key-config key is lost, type 6 pre-shared key encrypted form is sent as pre-shared key
CSCvd35443	Site-prefix-learning:Crash on EIGRP process when issuing "no ip vrf red" on HMCBR
CSCvd47657	ISR4K routers may crashed with Segmentation Fault in AFW Application Process
CSCve27445	memory leak due to CDP enabled on tunnel(ipsec)
CSCve43573	Large EIGRP SAF updates close to max size may induce stale condition
CSCve47887	Crash in CEF: IPv4 process on Catalyst 3850 and 3650
CSCve57830	SUBALTNAME DECODE fails for APIC_EM self-signed cert when validating server identity
CSCvf07153	SIP Date header format not in GMT Format
CSCvf11721	ASR1k netflow crash at flow_def_field_list_copy_with_callback
CSCvf11776	VRRPv3 with VRRS remains NOT READY after shutdown Port-channel IF.
CSCvf23339	Communication through Serial port not going through RTS down
CSCvf24607	Ipsec Session Fail After Up/down Link Between Dmvpn Tunnel
CSCvf36269	Cisco IOS and IOS XE Software Plug-and-Play PKI API Certificate Validation Vulnerability
CSCvf51773	NHRP redirect overriding routing table
CSCvf84349	Router crash on polling cEigrpPeerEntry
CSCvg05452	IOS-XE router crash from memory corruption during CCB cleanup
CSCvg05896	IWAN EIGRP SAF - seq number mismatch after branch reload
CSCvg09010	KS merge fails for groups with TBAR due to PST update failure on primary KS
CSCvg30991	IOS-XE routers: Memory leak observed on process ivr: peer_item_t in AFW_application_process

Caveat ID Number	Description
CSCvg34167	Unexpected reboot of voice gateway 4400ISR
CSCvg36598	ISAKMP Fails When Multiple HSRP tunnel/SVTI Interfaces Configured
CSCvg39082	Cisco device unexpectedly reloads after TCP session timeout
CSCvg56628	"*Packet Header*" and "pak subblock chunk" leak
CSCvg59604	Cube crashes intermittently multiple times within every two days.
CSCvg71566	"no cdp enable" is rewritten to "no cdp tlv app" after reload.
CSCvg85087	ISM: Packet loss when VTI and Crypto Map are used with Port-Channel
CSCvg89163	CUBE does not acknowledge Session-Expires header in UPDATE
CSCvg90226	Crypto Traceback: Router crash at 'Crypto Support' segmentation fault
CSCvg95562	CENT: branch MC crashed @ cent_pdp_msg_send_from_pickexit after CSCup19724
CSCvg98890	IOS-XE GM router might crash after the rekey method is changed from unicast to multicast
CSCvg99744	TWAMP session timeout every (3 * timer inactivity value) seconds.
CSCvh02294	ISR4K SW MTP configured as TRP does not relay sRTCP messages
CSCvh05611	IOSd crash while applying dial peer configuration
CSCvh30035	ISM stops forwarding IPSEC traffic / %OCE-3-OCE_FWD_STATE_HANDLE / free_ob=75000
CSCvh32216	Sporadic Crashes Due to IPSec (during ISAKMP AAA interaction)
CSCvh48610	iwan router crash while updating pmi policy
CSCvh49364	PFRv3 Incorrect time-stamp in traffic-class router change history
CSCvh52788	C841M SVI interface send redirect packet when the address doesn't exsit and it doesn't know the MAC
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
CSCvh70570	MGCP fallback mode remains ON after CUCM registered
CSCvh75132	CPP crash stuck thread detected multikey_hash_replace_int
CSCvh88330	VAI Leaks with IKEv1 DVTI

Caveat ID Number	Description
CSCvh89062	PfRv3: Crash NextHop timer timeout and route down at the same time
CSCvh97101	NAT-HA on Cisco 2900s breaks if it is asymmetric routing.
CSCvh99912	traceback: PM-4-NOSB: No PM subblock found for interface Gi0/0
CSCvi01805	Router with SIP traffic crashes at ccsip_free_kpml_info
CSCvi05126	ISAKMP Notification messages carry unnecessary data
CSCvi05172	Overruns due to nbar with bursty flows
CSCvi15949	Cisco2921 ssh/console session hung when config script runs flowcontrol hardware command
CSCvi19685	ISDN - BRI - 'progress_ind' command does not work
CSCvi42002	CDP packets not getting encapsulated over multipoint GRE tunnel
CSCvi42049	Crashes seen with C2900+ISM crypto engine with high traffic rates / high CPU
CSCvi44298	ISR4451 Installs 2 IPsec SA's with different peers having same proxy identities
CSCvi50061	Evaluate NTP February 2018 Vulnerabilities.
CSCvi54878	Memory leaks seen at PKI_name_list_add(0xa139cc0)+0x3e
CSCvi56463	Unexpected Reset, Crypto IKMP Segmentation fault with IPSec AAA Configuration
CSCvi66343	ASR1K Datapath is not passing CTS tagging over PfRV3 auto-tunnel with "cts sgt inline"
CSCvi67613	Protocol type for GRE header doesn't work consistently with "cts sgt inline" enable over auto-tunnel
CSCvi78427	2921 constantly freezes due to BADSHARE error
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
CSCvj25678	Crash after failing to modify xcode
CSCvj27172	Crash during Generic Call Filter Module cleanup
CSCvj41550	default channel operation state changing from I/O to D/O failed when zero-sla enabled
CSCvj44709	Pause Frames transmitted on interface even after traffic spike ends

Caveat ID Number	Description
CSCvj51066	c3900E w/SPE200 - 15.5(3)M7 - bus error crash with IPv6 crypto traffic and high CPU
CSCvj61463	ISR crashes after 'no parameter-map type cws global' command
CSCvj70568	FlexVPN || DHCP entries not flushing for ikev2 timed out reconnect sessions
CSCvj78676	Router crashes @ memcpy, mdns_read_packet
CSCvk27007	MGCP status remains Down after IOS upgrade caused by CSCvh70570

Open Bugs—Cisco IOS Release 15.5(3)M8

Table 4: Open Bugs—Cisco IOS Release 15.5(3)M8

Caveat ID Number	Description
CSCsw31148	Feature Enhancement Request for ARP entry limit capability
CSCti56560	QoS Policy affecting the behavior of other Policies
CSCty26398	ACE entry with *established* KW in ACL drops TCP packets - SSH.
CSCtz84873	Crash due to stack overflow: CCSIP_SPI_CONTROL running low, 0/60000
CSCuf55932	VRF+PBR+NAT would not work with CEF
CSCut51090	The creation of line 40 seems to be pretty senseless.
CSCuu76493	Cisco IOS and IOS XE Software EnergyWise Denial of Service Vulnerabilities
CSCuu81597	NAT inside interface is place in Admin Down after a reload
CSCuw56669	DMVPN Phase3 OSPF Broadcast: NHO addition fails - insufficient resources
CSCuz29721	Memory leak under HTTP EPM Redirect Daemon
CSCva42524	%SMC-2-BAD_ID_HW: Failed Identification Test in 0/-1/-1 [7/0] in logs
CSCva72881	crash due to Auth-proxy HTTP daemon process failing
CSCvc19168	Audio stream is lost from Gateway once it receives mid-call Re-inivte CUCM
CSCvc39563	High CPU Due to "Async write proc" During Hung Filesystem Operation
CSCvc63810	Increase VXML Global memory at maximum value of 2MB
CSCvc78398	3.18.1.SP modem/s stuck in reject(pk) with PKI-3-CERTIFICATE_INVALID log message
CSCvd87882	Route-map for static nat statement gets removed by itself

Caveat ID Number	Description
CSCvf11181	3925 crash at be_fw_dp_sccp_handle
CSCvf29206	Cisco 3945 sending Link Down trap incorrectly
CSCvf34608	Excessive "Reflector" Tracelogs
CSCvf43290	CUBE LTI Transcoder - Allocation error leads to no way audio
CSCvg29770	CUBE Duplicates Diversion Header using DNS and SIP bindings
CSCvh53685	MTU on serial interface adjusts automatically to 1500 after an interface bounce
CSCvh87823	NVI NAT overload between different VRFs fail for ICMP
CSCvh96542	CCSIP_SPI_CONTRO holding memory increasing
CSCvj60825	Redzone overlay copying SIP SDP data
CSCvj84158	PfRv3: BR May Crash due to Channel Creation/Modification and Next-Hop State (Copied from CSCva72274)
CSCvk00363	"ip address dhcp" may disappear from configuration affecting forwarding capability
CSCvk30939	Memory corruption at PKI Session End
CSCvk51433	Lisp router crash with enabling IPv6 and DHCP relay.

Resolved Bugs—Cisco IOS Release 15.5(3)M7

Table 5: Resolved Bugs—Cisco IOS Release 15.5(3)M7

Caveat ID Number	Description
CSCsy56638	Switch crashes after getnext on the last cafServerAliveAction index
CSCuo76385	Router crashes at ic_dp_classify when Serial link flaps
CSCuv01168	SPA-2XCT3/DS0 controller is not coming up on fresh reboot.
CSCuv36677	IOS allows RC4-MD5 and RC4-SHA1 SSL ciphers to be negotiated by default
CSCuv58654	Webvpn on Dialer interface fails unless CEF is diabled
CSCuw19844	router crash while connecting to the camera on the NAT enabled interface
CSCux26195	"aaa accounting suppress null-username" not working as expected
CSCux45452	Spike seen in SLCP process due to specific OIDs being polled by SNMP
CSCux50997	IOS crashes on bootup without any startup configuration
CSCux65265	Crash during the show interface CMD while a multicast tunnel goes down

Caveat ID Number	Description
CSCuy09470	ISIS hello stops to be sent after RSP switchover
CSCuy14110	CPU Spike seen due to VTEMPLATE BKG OW Process.
CSCuy35425	IOS memory leak in SSLVPN
CSCuy50465	Logging persistent may lead to IOS image corruption on the flash
CSCuy51825	Router crash in udpTrans_socket_get_data
CSCuy96461	IOS-XE EPC does not work on port-channel subinterfaces
CSCuz62898	Crash in BGP due to regular expressions
CSCuz95908	Memory leak due to path querry with Null outgoing interface
CSCva03535	HTTP closing newly opened connections due to duplicate FD
CSCva44291	OCSP SHA2 signature algorithms verification fails
CSCva61896	Premature free of trustpoint metadata causes Crypto PKI RECV crash
CSCva72564	Customer POC- Autoinstall obtained IP overrides USB bootstrap config
CSCvb01610	XE316: Regular Expression Mismatch with include pattern
CSCvb20224	Router crashes on configuring bandwidth on the Dialer interface
CSCvb75834	Regular Expression breakage
CSCvb88373	MRCP V2 logging tag support
CSCvb98227	IOS: router crashed due to possible memory leak on CCSIP_SPI_CONTROL
CSCvc07577	Crash in BGP due to regular expressions
CSCvc35453	ISATAP Server feature broken on ASR1K
CSCvc39087	Default route via dialer interface stays up, even when dialer is down.
CSCvc61899	static route is not getting redistributed into RIP database
CSCvc77378	Glare condition exists for mid call DO INVITE when CUBE receives in-dialogue SIP OPTIONS message
CSCvc77706	[DT]Crash oberseved while sending ANCP port up
CSCvc78492	DMVPN : IOS-XE - Unable to pass traffic if spoke to spoke fails to build in phase 2
CSCvd27271	Crash during after IPSLA/IPPM frees packet store information
CSCvd38714	OSPF: When anycast present in two areas, when one area is removed, rout not getting installed in RIB
CSCvd40276	OSPF: Not able to remove ospfv3 config under Virtual-Template

Caveat ID Number	Description
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.
CSCvd64575	command sh run caused router to pause passing traffic 1 to 2 seconds.
CSCvd64670	SCEP enrollment failing with HTTP/1.1 500 Internal Error
CSCvd67254	Crash during CRL fetch failure
CSCvd86031	RSVP neighbor is not coming up after reloading ASR9001 peer
CSCvd90560	Incorrect channel next-hop for branch to branch traffic
CSCvd97768	ISR4k crash at sstrncpy using voice.
CSCve07263	IPSec Tunnel stuck in Up/Down state after shut/no-shut - VPN Interop
CSCve08418	IPsec/IKEv2 Installation Sometimes Fails With Simultaneous Negotiations
CSCve17435	ipv6 lisp etr map-server key xxx hash-function sha2 is lost from cpe config upon reload
CSCve39308	cft_fid_table_new_flow causing Memory Fragmentation on c3900
CSCve41775	crash over CCSIP_SPI_CONTROL process due to null pointer / segmentation fault
CSCve51657	Slow convergence with scale after a core link flaps
CSCve53674	crash on l2tp_session_get_soczket_type
CSCve57506	IPv6 ESP traffic incorrectly dropped after decryption by IPv6 interface access-list
CSCve59906	router crash with "param long-dur-action disconnect"
CSCve63165	ASR903 RSP1 crashes @ ssh_buffer_append, ssh2_packet_start
CSCve66119	Router crash due to process "Crypto Support" segmentation fault
CSCve68771	Crash in TCL/AFW processes
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
CSCvf16626	iwan router crash while updating pmi policy
CSCvf19607	ISR4K not correctly handling forked 18X responses with SDP
CSCvf25433	Crash after reconfiguring 'login quiet-mode access-class' or 'login block-for'

Caveat ID Number	Description
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
CSCvf31368	router crash after EEM-wanfailover script triggered
CSCvf33947	CUBE can't handle mid-call re-invite when midcall-signalling passthrough mediachange is configured
CSCvf34835	IOS-XE GETVPN KS crashes while sending cgmGdoiKeyServerRegistrationComplete trap after GM reg
CSCvf38050	Voice Gateway crash due to memory corruption while finding DN index during redirect
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
CSCvf54380	Memory leak due to IP SLAs XOS Event Processor
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 mult-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"
CSCvf76512	option 82 circuit-id-tag restricted by 6 bytes
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
CSCvf87649	C891-24X/K9 BDI not forwarding traffic as mac address 0000.0000.0000

Caveat ID Number	Description
CSCvf87808	SIP-SIP calls fail in 15.5(3)M6 - VRF enable calls
CSCvf89608	Missing ip route to cellular interface after router reload or modem power cycle
CSCvf89894	GETVPN // Primary KS sending rekey first to GM's and then to Secondary KS via scheduled rekey.
CSCvf96035	ISIS redistribute connected not working for IPV6 routes
CSCvf97230	RE-INVITE and OPTIONS Glare not handled by CUBE
CSCvg06722	CRETE/RSP3: IPSec tunnels goes down after lifetime expiry even with ReKey enbaled
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
CSCvg21440	Memory leak with DMVPN tunnel protection ipsec
CSCvg28395	Crash when doing snmp walk for ipAddressEntry
CSCvg29183	ISR4K - XE 16.3.4 - SIP-TDM GW - FLEXDSPRM-3-TDM_CONNECT errors and crash
CSCvg52560	Traceback: OCSP creates a large number of lists and triggers a memory problem
CSCvg74048	PKI: All SCEP requests fail with "Failed to send the request. There is another request in progress"
CSCvg81898	FMT_SMF.1.1 Audit Review
CSCvg89949	Crash seen on VDSL with ATM over Ethernet configuration
CSCvh05575	ISR 4k SCCP Process Does Not Wait for All PVDM Modules to Come Up Before Registering
CSCvh17481	PKI: Device crash during crl download with multiple CDP URI
CSCvh45897	NAT not doing translation for SIP payload

Open Bugs—Cisco IOS Release 15.5(3)M7

Table 6: Open Bugs—Cisco IOS Release 15.5(3)M7

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

Caveat ID Number	Description
CSCts86510	NIGHTLY Build FAILED for 15.0M on 2011-09-17
CSCtz84873	Crash due to stack overflow: CCSIP_SPI_CONTROL running low, 0/60000
CSCuf55932	VRF+PBR+NAT would not work with CEF
CSCuu76493	Cisco IOS and IOS XE Software EnergyWise Denial of Service Vulnerabilities
CSCuu81597	NAT inside interface is place in Admin Down after a reload
CSCuw43115	CSR1Kv XE 3.13.3S Crashed on clearing ip ospf process
CSCux95215	Evaluation of sce for NTP_January_2016
CSCuy01416	EHWIC-1GE-SFP-CU on ISR2951: MAC addr is not learned with EVC/BD config
CSCuy07466	Evaluation of sce for OpenSSL January 2016
CSCuy54627	Evaluation of sce for OpenSSL March 2016
CSCuz29721	Memory leak under HTTP EPM Redirect Daemon
CSCuz39721	ASR1K/RP2/SW 15.4(3)S4 crash
CSCuz52530	Evaluation of sce for OpenSSL May 2016
CSCva19023	CFD: Router or Switch Crashes When PNP Configures VTY Line Due to Stale CSB
CSCva42524	%SMC-2-BAD_ID_HW: Failed Identification Test in 0/-1/-1 [7/0] in logs
CSCva72881	crash due to Auth-proxy HTTP daemon process failing
CSCvc19168	Audio stream is lost from Gateway once it receives mid-call Re-inivte CUCM
CSCvc23570	Evaluation of sce for NTP November 2016
CSCvc39563	ISR 8xx - High CPU Due to "Async write proc" During Hung Filesystem Operation
CSCvc62742	Preventive fix for crash in AFW DataList
CSCvc63810	Increase VXML Global memory at maximum value of 2MB
CSCvd87882	Route-map for static nat statement gets removed by itself
CSCve43933	media activity drops calls on hold if RTP/all receive criteria is configured
CSCvf11181	3925 crash at be_fw_dp_sccp_handle
CSCvf43290	CUBE LTI Transcoder - Allocation error leads to no way audio
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.

Caveat ID Number	Description
CSCvg80679	CGR2010: Router crashes at first reload post GRWIC-4G-LTE-A modem firmware upgrade
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
CSCvh64475	router crashed after entered "no ipv6 access-class sl_def_ipv6_acl in" during quiet mode

Resolved Bugs—Cisco IOS Release 15.5(3)M6a

Table 7: Resolved Bugs—Cisco IOS Release 15.5(3)M6a

Caveat ID Number	Description
CSCuv01168	SPA-2XCT3/DS0 controller is not coming up on fresh reboot.
CSCuv85705	ISR4k: Large allocations in dheap causing shrinkage intotal IOSd mempool
CSCuw31413	Protect LC crash@ A critical process ubrclc_k9lc_ms has failed (rc 139)
CSCux50997	IOS crashes on bootup without any startup configuration
CSCuz42995	CSCus79699 broke top allocators in crashinfo
CSCva72564	Customer POC- Autoinstall obtained IP overrides USB bootstrap config
CSCvf87808	SIP-SIP calls fail in 15.5(3)M6 - VRF enable calls

Open Bugs—Cisco IOS Release 15.5(3)M6

Table 8: Open Bugs—Cisco IOS Release 15.5(3)M6

Caveat ID Number	Description
CSCvc26759	ASR1k: ISG sends in Accounting-Response Message-Authenticator[80]
CSCtq80074	Crah seen @ trigger_auth_command
CSCut51090	The creation of line 40 seems to be pretty senseless.
CSCee00894	Non-Cisco client remaining in association table after they left BSS

Caveat ID Number	Description
CSCvb01725	LEAPSEC: BC in holdover is not sending the last learnt utcOffset
CSCuy50465	Logging persistent may lead to IOS image corruption on the flash
CSCtr19078	IO Memory leak in cisco3270
CSCty26398	ACE entry with *established* KW in ACL drops TCP packets - SSH.
CSCve58987	memory leak in cce_dp_sb_pak_subblock_process_create
CSCva78345	router crash in qos acl check
CSCve27445	memory leak due to CDP enabled on tunnel(ipsec)
CSCve94032	Router crash @ SkinnyAddMediaMohClient
CSCvf04110	ISR Router Crashes When Handling IPSEC Fragments, Bus Error at Address 0x20
CSCvf03912	I/O Leak in middle buffer from SNMP Polls
CSCvc69693	After reload static route is missing from RIB
CSCvd80837	Crash observed in DHCP SIP
CSCvc75104	Packets are intermittently dropped with dialer aaa
CSCuz29721	Memory leak under HTTP EPM Redirect Daemon
CSCvc80033	unplug cable or shut interface trigger EIGRP loop to crash router over LISP with tunnels.
CSCvb99325	Virtual-Access interfaces are saving to the EIGRP running-config
CSCuu76493	Cisco IOS and IOS XE Software EnergyWise Denial of Service Vulnerabilities
CSCuw43115	CSR1Kv XE 3.13.3S Crashed on clearing ip ospf process
CSCuy33991	Router crash after tunnel interface goes up and BGP adjacency is set up
CSCva03535	HTTP closing newly opened connections due to duplicate FD
CSCvd64670	SCEP enrollment failing with HTTP/1.1 500 Internal Error
CSCuv36677	IOS allows RC4-MD5 and RC4-SHA1 SSL ciphers to be negotiated by default
CSCva72881	crash due to Auth-proxy HTTP daemon process failing
CSCvd64575	command sh run caused router to pause passing traffic 1 to 2 seconds.
CSCur04161	CWS: Lazarus: 60 seconds latency seen after xml dwnload for Excpt Mgmt
CSCta43825	SNMP walk of ipNetToMediaTable/atTable leads to high CPU util issue
CSCvc61899	static route is not getting redistributed into RIP database

Caveat ID Number	Description
CSCux65265	Crash during the show interface CMD while a multicast tunnel goes down
CSCvd78425	Commit CSCum96146 CUBE HA pair crash into 15.5
CSCtz84873	Crash due to stack overflow: CCSIP_SPI_CONTROL running low, 0/60000
CSCuw65318	Cube is not passing REFER on second transfer attempt
CSCve64645	CUBE replaces G723 with G729
CSCve24644	CUBE sends ptime: 160 with midcall-signaling preserve-codec
CSCve75919	In-dialog options ping received post ACK (call completion) cause cube to change codec and no audio
CSCuz77054	"sh crypto gdoi gm data counter" randomnly increases after REKEY
CSCvb08960	ezvpn client config dissapears from dialer int when pppoe session flaps
CSCuv90519	Map doesn't get updated with socket change on local address change
CSCuw56669	DMVPN Phase3 OSPF Broadcast: NHO addition fails - insufficient resources
CSCve57506	IPv6 ESP traffic incorrectly dropped after decryption by IPv6 interface access-list
CSCuz27769	gateway sends connected name in iso even when ecma is configured
CSCvc39563	ISR 8xx - High CPU Due to "Async write proc" During Hung Filesystem Operation
CSCve37735	C2900 with ISM-VPN-29 - 15.5M - wrong interface "input rate" with GET/crypto traffic
CSCuy01416	EHWIC-1GE-SFP-CU on ISR2951: MAC addr is not learned with EVC/BD config
CSCuu90215	Energywise output displays wrong values
CSCve68801	Memory alignment error by m8500 interrupt
CSCuu67930	Wrong new lines placement in power consumption information
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
CSCve53674	crash on l2tp_session_get_soczket_type
CSCve93263	Chunk Corruption Crash with MACE Configured
CSCvb84068	igmp ssm-map in VRF does not use the VRF name-server
CSCuz95908	Memory leak due to path querry with Null outgoing interface

Caveat ID Number	Description
CSCve83704	A host translated to an IP via Dynamic 1-1 NAT, is not being be mapped to another IP
CSCuu81597	NAT inside interface is place in Admin Down after a reload
CSCtq48581	Natted traffic is getting process switched after reload.
CSCvd87882	Route-map for static nat statement gets removed by itself
CSCuf55932	VRF+PBR+NAT would not work with CEF
CSCvc20201	Learning site-prefix from RIB
CSCve61713	PfRv3: Crash in Route-Control Process
CSCvf02356	ASR1002-X Router crashed on 'Parent still holding tunnel subblocks after delete'
CSCvc78398	3.18.1.SP modem/s stuck in reject(pk) with PKI-3-CERTIFICATE_INVALID log message
CSCva19023	unexpected pnp config-upgrade crash due to stale csb
CSCvc55197	MTU of the PPPoE Dialer interface resets to 1492 while doing any change in the MTU config
CSCvc88922	ppp ms-chap refuse don't work
CSCuz39286	Revert back of CSCuy70502 due to breakage in t_base_6
CSCve46594	Cannot reapply service policy under tunnel interface. Tunnel interface sourced using sub-interface.
CSCti56560	QoS Policy affecting the behavior of other Policies
CSCvf05494	Traffic shaping not working with percent command
CSCts86510	NIGHTLY Build FAILED for 15.0M on 2011-09-17
CSCty22416	Machine Check Exception due to bus errors should generate crashinfo
CSCvc23570	Evaluation of sce for NTP November 2016
CSCux95215	Evaluation of sce for NTP_January_2016
CSCuy07466	Evaluation of sce for OpenSSL January 2016
CSCuy54627	Evaluation of sce for OpenSSL March 2016
CSCuz52530	Evaluation of sce for OpenSSL May 2016
CSCva93104	Auto ip sla probes tags doesn't work
CSCvc88132	Counters not getting incremented for HTTP OID's like rttMonHTTPStatsDNSQueryError

Caveat ID Number	Description
CSCte21976	IOS: scp error when pulling file using SSHv1ssh
CSCvd12371	SSH logs showing empty username on successful authentication
CSCuy35425	IOS memory leak in SSLVPN
CSCsz11565	SSLVPN ACL: Router crashes on issuing sh logging command
CSCuv58654	Webvpn on Dialer interface fails unless CEF is diabled
CSCvc62742	Preventive fix for crash in AFW DataList
CSCue49628	BACD Script crashes when live feed fails without moh on flash
CSCvc91336	Add warning message for VG310P/VG320P when dowloading older versions of IOS pre-15.6(3)M
CSCvc19168	Audio stream is lost from Gateway once it receives mid-call Re-inivte CUCM
CSCve43933	media activity drops calls on hold if RTP/all receive criteria is configured
CSCvb98227	Memory exhaustion in CCSIP_SPI_CONTRO process
CSCva22819	Processor pool leak due to CCSIP_SPI_CONTROL
CSCve71631	SCB Memory leak reported in the CCSIP_SPI_CONTROL process
CSCvd70498	TDM gateway rejects Sip info message, then sends an empty isdn facility message
CSCve89479	Cube doesn't send ack or forward 200 ok
CSCve71674	WCCP bypassed packets dropped by ACL on WAN interface
CSCvb54653	Incoming SMS not showing syslog messages IOS 15.6(2)T
CSCve52506	TCP stuck in CLOSEWAIT when using X25 PVC RBP

Resolved Bugs—Cisco IOS Release 15.5(3)M6

Table 9: Resolved Bugs—Cisco IOS Release 15.5(3)M6

Caveat ID Number	Description
CSCuz48415	"aaa authentication suppress null-username" not working as expected
CSCva47253	AAA crash on multiple username deletions - Part 2
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

Caveat ID Number	Description
CSCuz97414	Bulk-sync failure due to ip radius source-interface Vlan701 vrf VRF_MGMT
CSCuy27733	Continuous CPE request/solicit msgs causes CPU and Memory issues
CSCuy21675	Crash@username_command with service pwd-encryption & common-criteria cfg
CSCvd97229	Framed-IPv6-Route attribute is not working for IPv6 full route with leading zeros
CSCvc42499	Function radius_message_authenticator_decode
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
CSCva32762	Radius packets are timed out caused link to go Critical-auth.
CSCuz04324	radius-server vsa send authentication lost after reload
CSCvc70492	Rework of CSCuz48415
CSCux83859	switch fails dot1x when identity field in eap id response is blank
CSCuz82218	TACACS Enable authentication fails with null pre shared key
CSCve54313	Crash in ALPS SNMP code
CSCvc18420	Sup8-E removing bfd template from interface causes standby to 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
CSCvc08355	BGP table show detail not displaying CIDR values for classful networks
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 rtfilter AF
CSCvd02623	Prefixes were not imported to Global BGP table
CSCvc31517	Router crashes using BGP commands for long cost extended community string
CSCvc75887	Support of RFC7432 EVPN route type 4 of originating router IPv4/IPv6 address

Caveat ID Number	Description
CSCvd43437	Wrong Source IP Selection for eBGP in EVN/VNET environment
CSCve57697	Crash in Bstun SNMP code
CSCuv99608	uprev dev18 fixes to rel17
CSCve42980	Cisco2921 crash when disable/enable ACL list repeatly by ssh
CSCut87808	Crash While Accessing CallManager XML Config
CSCvc09672	Spurious memory access made in the CME code
CSCvd49732	User receives "Transfer to is busy" when transferring calls to an Octo-line
CSCvb53469	Ephone-DN remains in down state when restart all is given in telephony-service
CSCvc63958	SIP CME relays out "Authorization: header" received from IP Phone.
CSCvc21836	SRST Clock is 9H faster on 200OK from Router
CSCuy40939	Trust List / Toll Fraud Feature vulnerability on CME
CSCvc62470	AQOS suggest incorrect rate as Rx_Bytes counter sent is 0
CSCvd33792	I/O pool memory leak when packets are redirected to ISM0/1 interface
CSCvc61636	ISRG2 crashes due to Align-fatal when using ISM-VPN module.
CSCve06555	One-way Netflow with IPsec Tunnel-in-Tunnel using ISM-VPN-29
CSCvd19860	OSPFv3 AUTH breaks IPv6 traffic intermittently
CSCvc46500	OSPFv3 AUTH w/IPSEC adj change and invalid SPI msg with ISM VPN hardware crypto
CSCve28730	Spurious memory access when booting C2911 w/ISM-VPN-29 and 15.5(3)M5a
CSCuw77959	1801M - %DATACORRUPTION-1-DATAINCONSISTENCY: copy error
CSCuv86130	DHCPv6 Traceback message configured IPv6 DHCP client
CSCus21944	The 4510 switch with 03.03.03.XO does not generate accounting updates
CSCvc64017	IOS/IOS-XE logging "sym_xapp_calleg_setup_req:codec not passthru do_rtcp == TRUE" messages
CSCvd81843	Tracebacks seen during transcoding calls with dspfarm on ISR4k
CSCvc71139	Add NBAR support for IIF_ID
CSCva16353	Fnf related tracebacks and fnf config issues during ISSU process
CSCva14555	IOS-XE reload when configuring privilege exec level for Flexible Netflow
CSCuw38090	No flow records sent when collect app http host/url and ssl added to FNF

Caveat ID Number	Description
CSCvb53006	Router charshes while configuring flow-monitor
CSCvb46106	Router crash when removing EzPM configs
CSCut57456	copy run http command crash
CSCvd88324	Ability to select the TLS 1.2 / SHA2 ciphers via CLI (ip http secure-ciphercuite)
CSCve28728	boot config flash0:init-conf nvbypass CLI failed: File system flash0: is unavailable
CSCuw40391	IPS: Crash@ips_dp_delete_half_open_session Part II
CSCve40916	Double free @ CWS tower polling results in crash
CSCuo59297	IOS WAAS crash in DRE on ISR
CSCvd99086	ISR4K DMVPN iBGP BFD sessions are not coming up with NBAR enabled
CSCvb75072	Re-Commit the Fix of CSCuj99156 which was removed via CSCux53443
CSCvc66912	CUBE Ent crashes when Diversion header received with no user portion and 'history-info' enabled
CSCuz73680	CUBE fails to routecalls with overlap interface IP+dialpeer IP multiVRF
CSCvc42383	One-way recoring issue with media forking.
CSCvd30171	SIP Profile does incorrect modification - the variable name is added in signalling
CSCve20522	"show crypto map" displays incorrect wildcard mask for crypto access-list
CSCvc65961	IKEv2: pkts doubled in interim accounting update post ipsec rekey
CSCve10917	IPSec crash on ASR1k router while processing KMI
CSCvd99474	IPsec: For sVTI after rekey old SAs are not getting deleted
CSCvd40880	Modifying crypto ACL leads to a removal of crypto map config
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
CSCvd69373	IKEv2: Unable to initiate IKE session to a specific peer due to 'in-neg' SA Leak
CSCvd10126	Call Admission Control active ISAKMP SA leak when ISAKMP SA deleted immediately after MM6
CSCvc79296	Redundancy inter-device is not working with "security ipsec"

Caveat ID Number	Description
CSCvb94392	Cisco IOS and IOS XE System Software SNMP Subsystem Denial of Service Vulnerability
CSCvd47757	csr1000v is not able to poll CISCO-IPSEC-FLOW-MONITOR-MIB
CSCux16625	IPSec FlowMib doesn't work fully with OSPFv3 ipsec SAs
CSCvb25357	NHRP registration requests failed after ipv6 tunnel source change
CSCvb14640	"ipAddressEntry" polling can cause crash
CSCuz74957	Router crashed due to stack corruption from buffer overflow
CSCvd03354	ISIS removing all connected ipv6 prefixes when removing 1 ipv6 scope
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
CSCvc23430	Router crashes upon clearing isis process
CSCvb56769	%SYS-2-INTSCHED: 'sleep for' at level 3 -Process= "ISDN"
CSCvc01398	4 byte garbage in packets bridged from VDSL
CSCvc20347	MTU issue - ping drop with larger MTU on peer
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
CSCvb45876	Connectivity issues on shutting down sub-interfaces with dot1q
CSCvd24508	Packet loss on directly connected neighbor when Q-in-Q is configured
CSCvc93034	EHWIC-4ESG leaked MAC Address table entries
CSCve60507	Crash in "mac auth bypass" SNMP code
CSCve60376	Crash in ADSL DMT SNMP code
CSCve60276	Crash in ADSL SNMP code
CSCuv30976	ISR3945 GigE ports disappear under SM-ES3G-16-P card while doing OIR
CSCuu73953	tftp-server command is Mandatory for SM-X-1T3/E3 on ISR-G2 Platforms
CSCvb51044	Ping to GLBP VIP does not work after reloading the router.
CSCve30307	POE on SM-ES2-24-P with 2911 router dropped after IOS upgrade.
CSCuz42299	Crash when configuring CWS
CSCvb71086	CWS + NVI NAT not working for web traffic

Caveat ID Number	Description
CSCuw65792	CWS not associating CN with nested groups when "," (comma) is used
CSCvb65024	LDAP authentication reuses old TCP connection
CSCvc96456	LISP: Discovered dynamic-eid is deleted after one missed eid-notify
CSCvc09919	UCI-4k: Lisp Assert @ lisp_os_rib_watch_start with vrf delete and traffic loss with re-config
CSCvd84851	Unable to apply Service-Policy with NBAR Protocol Pack 28.0.0
CSCvc71220	Fix the quotes issue in SA build infra
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
CSCvd03170	MRCPv2 response fails with NULL string in middle of packet
CSCux27009	Crash during unconfig nat translation which using pool type rotary
CSCuv03661	Intf placed in Admin Down after a reboot if no IP address is assigned
CSCva36329	PAT entry using the same port which is configured for static NAT
CSCuy45433	PPTP translations are stuck in NAT table after timeout
CSCve19361	681985688 - CPP ucode crashes at ESP20 / 16.03.02
CSCvd01488	Running command "show policy-map interface" or "show tech nbar" can cause crash
CSCvc37983	4431 crashes with IWAN configuration showing CENT-BR-0 mallocs
CSCve05033	CLI to disable PFR branch to branch PFR optimizations
CSCvd41270	Crash on IWAN Hub when TC is uncontrolled and current channel is present
CSCvd39499	iWAN Border Router not connecting with Hub Transit MC
CSCvd36813	Memory Leak due to cent_rt_eigrp_nh_convert
CSCvb66590	PfR exports not sent to new Collector IP, when collector is modified on the fly
CSCvd29705	PfR Monitoring do not display VRF101 data and reports FVRF incorrectly
CSCvb52132	PfRv3 Should Monitor Internet Channel Reachability
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
CSCvd29302	Status up / down needs to be clarified in route-import output

Caveat ID Number	Description
CSCuv87206	The clock-rate matrix should be zeorized to dynamic payload types
CSCvd60596	Mandatory lookup yields a path in another cloud
CSCve45486	NHRP registration request non-compulsory experimental extension gets dropped
CSCvd08132	Routers running IOS-XE may crash with Process = NHRP
CSCvb64727	"no ntp allow mode control" does not seem to be working
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
CSCva35619	Cisco IOS Software Crafted NTP Packets Denial of Service Vulnerability
CSCuv87976	CLI Knob for handling Leap second Add/delee ignore/ handle
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
CSCux99025	Evaluation of Cisco IOS and IOS-XEl for NTP January 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
CSCvb19326	NTP leap second failure to insert after leap second occurs
CSCuz24233	NTP process is getting stopped & not able to create server relationship
CSCvb48912	SNMP crashes getting ntpAssociationEntry with low/fragmented memory condition
CSCuz94245	IGP-LDP sync interoperability for OSPF multi area 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

Caveat ID Number	Description
CSCve00964	OSPF retransmit behaviour issues
CSCva74756	OSPF Rogue LSA with maximum sequence number vulnerability
CSCuv69650	OSPF Virtual-link using the lowest cost path
CSCve14080	Error message "LID: Handle 0x0 is invalid" filling console logs
CSCvb66420	PFR Sync Issues between MC and Border router ,active probes are missing on border router randomly
CSCvc33707	crash after multiple renew
CSCvd38619	EST client pki authentication request goes out to default URL always
CSCve29882	EST client pki simpleenroll request goes out to default URL always
CSCvc71330	IOS CA Server unable to read CRL file accessed over ftp/tftp after CRL file reaches a certain size
CSCvc23928	IOS PKI: Traceback in PKI component during TCL script validation
CSCvc98201	PKI Certificate Importing Fails with Trailing Whitespace in PEM Body
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
CSCux29902	Sessions come up using rsa-sig certificates when ecdsa auth is used
CSCve10619	Crash while deleting an ip sla scheduler group attached to a live probe
CSCuy62751	SADT throws Warnings more than one time for more iterations
CSCve05026	Fatal Alignment Error Crash Due to Corrupted PC with SMEF
CSCvc24067	Middle Buffer I/O Leak On Dialer/Virtual-Access Interface from SNMP Polls
CSCuy08656	SNMP Traps leading a leak in CHUNK functions
CSCvb96925	IOS memory leak when using webvpn
CSCvc77784	Radius Accounting information failure in attribute: Acct-Input-Octets and Acct-Input-Packets
CSCve40112	C3925E 15.5(3)M5a - ipv6 tcp adjust-mss not working, MSS is always 1440
CSCvc60745	tcp_getbuffer memory leak - refcount not reduced when packet dropped
CSCve66658	Crash in TN3270E-RT-MIB code
CSCva08142	IOSd crash on LISP enable router

Caveat ID Number	Description
CSCue25168	TPM reserves UDP/4500 for no apparent reason
CSCvc56866	ISR4xxx router crashed due to voice IVR script - AFW_application_process
CSCvd17146	Add plc configuration CLI for tdm voice and dspfarm
CSCvd22910	Hung Transcoder sessions in complex call flows
CSCvd71879	ISR 4451-X crashed with "Segmentation fault(11), Process = DSMP"
CSCvd03571	MGCP Gateway sends RTCP packet after T.38 switchover
CSCve21448	multiple ISR4K VGW's crashed with Segmentation fault(11), Process = DSMP
CSCve05179	removed DC from NIM-FXO card and SM-X-FXS/FXO
CSCut98625	ASSERTION FAILED : ..vtsp.c: vtsp_cdb_assert: then crash
CSCvd72693	Hairpin call to PSTN fails
CSCvd16863	2951 crash due to Null Pointer Dereference
CSCvb97638	CCSIP_SPI_CONTROL memory usage leads to crash - SIP subscribe messages
CSCvc99971	Cisco Router 2921 sending cisco-rtp payload 121 for RFC2833 (rtp-nte) instead of 101.
CSCvc80620	CUBE-161: S3: 639020025: Multiple SIP/SDP Spurious Crashes//2951//15.5(1)T3
CSCvc47166	One-way audio on held-resumed calls after 20 mins
CSCvd98991	Path header not included in 2nd REGISTER with authorization
CSCvb71261	MGCP ISR4K does not advertises V150 Capabilities for T1 CAS trunks.
CSCvd15073	GW may crash at mc_waitq_unlink
CSCvc86595	HTTP 304 response causes mc error and bad magic
CSCvd20533	MRCP - DTMF issue
CSCue04085	VXML gateway crash playing mixture of g711 & g729 prompts
CSCuy63974	VXML gateway randomly tear down TCP/HTTP link between CVP
CSCvc70614	VXML GW IVR memory - active queue hold memory when clean http cache
CSCvc64275	VXML GW IVR memory get nagative number if memory usage exceed configured value
CSCva96611	IOS crash after upgrading EHWIC-4G-LTE-A (MC7700)
CSCvd67675	Router crash with %SYS-6-STACKLOW in ehwic cellular process

Resolved Bugs—Cisco IOS Release 15.5(3)M5

Table 10: Resolved Bugs—Cisco IOS Release 15.5(3)M5

Caveat ID Number	Description
CSCuw19830	Ethernet MPID Ping fails in CFM over EFPs for ACs with SSFP Optics
CSCvb92697	High CPU due to NHRP when NHRP cache entry for remote spoke's tunnel address is deleted
CSCvb00288	CME No ringback after blind transfer
CSCvb22048	7821 CME 11 with FR locale display overlapped text and unwanted chars
CSCvb14350	7861 - Adding speed-dial on button 16 causes loss of blf-speed-dial keys
CSCut64219	Crash in IOS internals. ISM module on ISR G2
CSCuw58631	Crypto fragmented traffic may cause an ISM-VPN failure
CSCuw89513	GIKEv2 - while matching address in GMACL deny, Multicast ping fails
CSCux04108	ISM drops fragmented traffic if virtual-reassembly configured (2)
CSCuv32874	ISM EZVPN client/server traffic fails when using VRF, NAT
CSCuz16978	ISM: Fragmented ESP packet not reassembled with ip virtual-reassembly
CSCuw86250	ISM: Fragmented ESP packet reassembled+decrypted but not forwarded
CSCvb51764	ESP-NULL with ikev2 doesn't pass traffic on 881 with crypto engine accelerator on
CSCuu76687	QoS classification issue with L2TPv2
CSCvc61913	Random IP addresses ase seen in running-configuration when set "ip host additional"
CSCvc47681	Increase Number of Supported DSP Conference Profiles
CSCvc16650	IOS secure conferencing leads to SRTP bandwidth and tunnels usage to exceed the license limits
CSCva39516	EIGRP /30 Serial Point-to-Point Subnet Not deleted after link down
CSCux41072	EIGRP sending hello messages with interface in passive mode.
CSCuz81900	FlexVPN IPs stale in one EIGRP Topology table when redistributed on HUB
CSCva35763	Incorrect subinterface enabled for EIGRP in vrf aware OTP
CSCvb51806	Router crash when removing EIGRP
CSCvb17493	897: CFM syslog messages not displayed

Caveat ID Number	Description
CSCuz96173	CFM RDI bit not clearly automatically after node reload
CSCvc05013	E_CFM-6-REMOTE_MEP_UP syslogs are not displayed when remote MEP is changing state
CSCuz50434	ISSU:XE314<->XE316 : IOSd Core@cfm_ha_issu_db_to_msg_pre_mpdb_transport
CSCuz80158	ISSU:XE316->XE314:IOSd Core@ecfm_get_evc_count during unconfig
CSCuz80524	RP_0_linux_iosd-imag crash in ASR920
CSCuu97037	RSP2_System_THS:traceback observed after standby RP upgrade in ISSU
CSCva27557	ASR1k: IPv6 address with VRRS does not transfer traffic properly.
CSCux70821	HSRP crashed after changed serial int FR encap from IETF to HDLC
CSCva91655	FIB recursive loop crash
CSCut70749	%SYS-2-NOBLOCK: may_suspend with blocking disabled. -Process= "IP Input"
CSCux00363	Router crash when freeing FW SID
CSCuy87957	ZBFW crash when inspecting protocol h323-annexe
CSCva50683	"CWS Telemetry Process" Crash on Whitelist Upgrade With CSCup94022 Fix
CSCuz27357	Memory leak in the small buffers, CCE dp subblock and *Packet Header*
CSCuy91409	ISR897VA // NBAR PP 16 changes Matched Protocols on ZBPF Class-Maps
CSCvb71803	Unable to Delete System Defined Port Maps
CSCuz21015	ZBF allows return traffic for egress action of pass with one zone-pair
CSCvb50917	ingress ping results in packet loss if not using a large size packet
CSCuz30040	Error on configuring "no snmp trap link-status" under Virtual-template
CSCva55916	CUBE crash in resolve_sig_ip_address_to_bind NULL ccb
CSCva70943	CUBE DTMF p-type does not adhere to the signaling
CSCuv47984	CUBE fails to send INVITE to the session target
CSCvc24020	Media forking causes the interface to physically hang
CSCuy33804	Traceback seen @resolve_sig_ip_address_to_bind during SRTP calls
CSCvc24626	Build failure for v155_3_m_throttle due to CSCuw82187
CSCva17858	Duplicate SA causes tunnel interface down
CSCvb70426	GETVPN: crash due to unexpected exception to CPU during Reg/Rekey policies from KS

Caveat ID Number	Description
CSCva05558	IKEv2 IPv6 GRE IPSec fails to stabilize on asr1k on 16.3
CSCuw82187	IPSec MIB: Global IPsec Traffic counters are reported incorrectly
CSCva75125	L2TP/IPSEC from non-patted environment fails with set nat demux
CSCvb24236	FlexVPN: remote auth method isn't accepted in ikev2 profile
CSCvb21220	G-IKEv2: GM fails to process rekey after coop failover to new primary KS
CSCvb22177	GETVPN: GM reuses old ip address for re-registration and fails
CSCvb81914	GETVPN: Post 15.2 GMs re-register after merge in certain conditions
CSCvc11968	"clear crypto ikev2 stats" clears active SA and negotiating SA counter in "show crypto ikev2 stats"
CSCvb93733	"show crypto ikev2 stats" shows stale active SA count
CSCvb19485	IKEv2 - 2nd rekey fails if either or both peers do not support IETF frag
CSCvb94852	IKEV2 Default Proposal Reset After Reload
CSCva61415	Unable to initiate IKE sessions due to mismatch in CAC counters
CSCva44179	IKEv1 DPD delete logic causes stale phase 2
CSCuz15131	dqueue not empty prior to destruction crashes ipv4fib_les_switch_wrapper
CSCvb89154	Fragment packets are dropped in LISP + NAT + GETVPN network
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
CSCvc10163	ENH: Unable to Disable LLDP on L3 interface in 881C router
CSCvb36107	C897: Unresponsive to SNMP queries
CSCvb72697	"show inventory" is not showing the SFPs
CSCur71700	Fine tuning of Tx interrupt coalescing in c3900 when tx-ring 4
CSCvc24284	Output queue wedge due to Media forking
CSCva97725	rj45-auto-detect-polarity enable/disable behavior and shut/noshut timing
CSCva46723	Small buffers leak with PPP
CSCvb08828	"no ip routing" + "ip default-gateway" config issue on C888-K9 device
CSCuw75352	ASR1k-lisp:Standby RP complains when eid-table removed from Active RP

Caveat ID Number	Description
CSCvb81094	lisp cli nvgen for default table instance id
CSCvb85039	LISP DDT: crash on removal of 'ddt' configuration
CSCva99178	LISP DDT: NMR for site EID prefix is returned for non-registered EIDs
CSCva93200	LISP: assert with DDT and multiple EID instances configured
CSCva18067	CPU HOG and Crash by MFIB_rate
CSCuz28618	sup2t: sup crashed after MFIB errors
CSCva43443	DNA/SA,Upon Quad SUP SSO,Mcast decap traffic black holing for ~50 sec
CSCva59927	UCI,On QuadS6T Second SSO,PIM joins are not encapsulating over VRF LISP
CSCvb42533	EIGRP redistribute Mobile routes failing
CSCvc03552	ISR4K routing using PMIPv6 enabled PBR over BGP
CSCvb60498	Need to support SSMO Label format as per 3GPP TS 23.003/RFC 5149bis
CSCva52398	PMIP reverse-tunnel route disappears
CSCvb91885	Custom App TC marked with two DSCP values
CSCvb51688	stile_dns_parser may cause sporadic crashes
CSCux96341	3945 crash on flapping tunnels with traffic
CSCup19724	CENT: branch MC crashed at cent_pdp_msg_send_from_pickexit
CSCvb79930	collector cfg missing after border shutdown/no shutdown
CSCvc34452	Fatal Alignment Error Crash with Smart Probe Processing
CSCvb18256	PfRv3 Channels Not Deleted Once TC is Removed
CSCvb54290	PfRv3 Password is overwritten by the global password, "password encryption aes"
CSCvb55519	PfRv3: Internet TC Not Created Due to Site-ID Timing Out
CSCuq92458	PfRv3: No Traffic-Classes Learned on Branch after Enabling Zero-SLA
CSCvb70355	Traffic does not move from stdby to active when it become available.
CSCva70115	ISR4331 crash due to NHRP running 03.16.03.S
CSCva97469	VA stuck in protocol down state after failing to establish IPSec session
CSCvb17379	PFRv3 border will learn master prefix When the package is fragments.
CSCvb84388	Auth and CRL download fails with "There is another request in progress"
CSCvb96706	Client auth and enroll to subca fails

Caveat ID Number	Description
CSCuz22162	Digital certificates does not sync to standby
CSCvb92455	if cert has reachable and unreach CDP , crl download fails from 2nd time
CSCvb73018	PKI: Cannot import RSA SubCA signed by ECDSA
CSCvc01292	SSL can't be established while shadow certificate by auto-rollover on IOS Local CA server exists.
CSCvb16323	Prefixes missing under channels for spoke
CSCux03601	Esrst 2nd CFW doesn't ring all phones with the same shared line
CSCvb78593	CFM PM Sessions do not start as scheduled
CSCvb60417	Router actin as HPR/SNA node crash every 2 hours
CSCvb61031	Dial-peer stats poll cause SNMP high CPU if 500+ dial-peers configured
CSCva77149	Router crash when polling NOTIFICATION-LOG-MIB
CSCux45833	Invalid usernames are logged for SSH failed login attempts
CSCvb84451	Router may crash during SCP copy over WSMA
CSCuz65461	ssh server accept unconfigured authentication method
CSCva46459	SSH session hangs if its not closed properly
CSCux86075	Unexpected crash during SSH operation
CSCux42885	3945E crash at sslvpn_aaa_unique_id_alloc
CSCum64244	CSR Mobile client's Radius auth failure triggers crash
CSCux28617	IOS crash after AnyConnect SSL VPN tunnel creation
CSCvb03342	IOS SSL VPN stuck reverse route blackholing IKEv2 connections
CSCva34598	Down change delay expired of track, without counting delay down time
CSCsq06282	Need ability to specify source address for HTTP messages from VXML GW
CSCvb27784	Router crashes when running the csim start command
CSCul74141	H245 Tunneling is FALSE even when enabled
CSCvc49737	Transcoders in ISR4451 can't open the media port
CSCva54693	voip_rtp_allocate_port:Possible port leak? , when call goes on hold
CSCvb58179	add new cas-custom CLI clear-bwd-in-seize for E1-R2
CSCux44315	Per Call Debugging system restart by address error

Caveat ID Number	Description
CSCvb24266	ISR 4K Crashes When Running "Debug Voice Translation"
CSCva41070	Sip profile does not copy the second varible in INVITE message
CSCvc19209	SIP session between VXML GW and the Nuance server remains active after callback (CCB) is scheduled
CSCvb90483	VXML GW hardening changes for ICBC memory corruption issue
CSCvb16274	PPTP Start-Control-Connection-Reply packet leaks router memory contents
CSCvb61277	Add recovery mechanism in Linux_app to auto recover

Open Bugs—Cisco IOS Release 15.5(3)M5

Table 11: Open Bugs—Cisco IOS Release 15.5(3)M5

Caveat ID Number	Description
CSCvc26759	ASR1k: ISG sends in Accounting-Response Message-Authenticator[80]
CSCtq80074	Crah seen @ trigger_auth_command
CSCvc42499	Function radius_message_authenticator_decode
CSCut51090	The creation of line 40 seems to be pretty senseless.
CSCee00894	Non-Cisco client remaining in association table after they left BSS
CSCvb01725	LEAPSEC: BC in holdover is not sending the last learnt utcOffset
CSCuy50465	Logging persistent may lead to IOS image corruption on the flash
CSCtr19078	IO Memory leak in cisco3270
CSCty26398	ACE entry with *established* KW in ACL drops TCP packets - SSH.
CSCut87808	Crash While Accessing CallManager XML Config
CSCvc09672	Spurious memory access made in the CME code
CSCvc48288	Router crash seen when IP FLOW MONITOR XXX was removed and applied back on the interface
CSCvc62470	AQOS suggest incorrect rate as Rx_Bytes counter sent is 0
CSCvc33632	ISM-VPN enabled: BGP neighbor not coming up
CSCvc61636	ISRG2 crashes due to Align-fatal when using ISM-VPN module.

Caveat ID Number	Description
CSCvc46500	OSPFv3 AUTH w/IPSEC adj change and invalid SPI msg with ISM VPN hardware crypto
CSCuw77959	1801M - %DATACORRUPTION-1-DATAINCONSISTENCY: copy error
CSCuv86130	DHCPv6 Traceback message configured IPv6 DHCP client
CSCvb72052	Crash: STACKLOW crash while configuring mDNS
CSCuz29721	Memory leak under HTTP EPM Redirect Daemon
CSCvb99325	Virtual-Access interfaces are saving to the EIGRP running-config
CSCuw43115	CSR1Kv XE 3.13.3S Crashed on clearing ip ospf process
CSCuw38090	No flow records sent when collect app http host/url and ssl added to FNF
CSCuy33991	Router crash after tunnel interface goes up and BGP adjacency is set up
CSCva03535	HTTP closing newly opened connections due to duplicate FD
CSCuv36677	IOS allows RC4-MD5 and RC4-SHA1 SSL ciphers to be negotiated by default
CSCva72881	crash due to Auth-proxy HTTP daemon process failing
CSCur04161	CWS: Lazarus: 60 seconds latency seen after xml dwnload for Excpt Mgmt
CSCvc61899	static route is not getting redistributed into RIP database
CSCtz84873	Crash due to stack overflow: CCSIP_SPI_CONTROL running low, 0/60000
CSCuw65318	Cube is not passing REFER on second transfer attempt
CSCva69488	Memory increase on CUBE with Media Forking Process
CSCvc42383	One-way recoring issue with media forking.
CSCvb43696	sdp pthru: CUBE not retain old port if transection fail with 488.
CSCvb08960	ezvpn client config dissapears from dialer int when pppoe session flaps
CSCuv90519	Map doesn't get updated with socket change on local address change
CSCvc34802	Memory Leak due to SADB Peering Ch after CSCum32910
CSCvc09368	Crash at update of context nhrp
CSCuw56669	DMVPN Phase3 OSPF Broadcast: NHO addition fails - insufficient resources
CSCuz77054	"sh crypto gdoi gm data counter" randomnly increases after REKEY
CSCvc23390	Sig hash algorithm not detected correctly when SHA 256 is used
CSCvb51336	IKEv2 - Signature sign, verify failures seen with 4096 bit certificates with onboard crypto engine

Caveat ID Number	Description
CSCuz27769	gateway sends connected name in iso even when ecma is configured
CSCvc23430	Router crashes upon clearing isis process
CSCvb85634	891FJ ping loss after continue to ping above 20 hours
CSCvc39563	ISR 8xx - High CPU Due to "Async write proc" During Hung Filesystem Operation
CSCva72288	ISR1921/1941 Failing to cache all IP-SGT binding.
CSCvc20347	MTU issue - ping drop with packet size 1519 to 1528 bytes
CSCuy01416	EHWIC-1GE-SFP-CU on ISR2951: MAC addr is not learned with EVC/BD config
CSCuu90215	Energywise output displays wrong values
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
CSCuv30976	ISR3945 GigE ports disappear under SM-ES3G-16-P card while doing OIR
CSCvb84068	igmp ssm-map in VRF does not use the VRF name-server
CSCuz95908	Memory leak due to path querry with Null outgoing interface
CSCux27009	Crash during unconfig nat translation which using pool type rotary
CSCuv03661	Intf placed in Admin Down after a reboot if no IP address is assigned
CSCuu81597	NAT inside interface is place in Admin Down after a reload
CSCtq48581	Natted traffic is getting process switched after reload.
CSCuy45433	PPTP translations are stuck in NAT table after timeout
CSCta93242	Small chance of IOS crash on "show run" with static NAT configured
CSCvc07026	Crash for NHRP with evidence free memory blocks used as pointers in memory
CSCvc23886	DMVPN : High CPU because of NHRP process, only with route-watch enabled
CSCuz66396	ASR1K: NTP: ntpq not able to retrieve delay/offset/jitter from router
CSCvc23569	Evaluation of all for NTP November 2016
CSCvb58392	Evaluation of NTP Trap Vulnerabilities
CSCvc23928	IOS PKI: Traceback in PKI component during TCL script validation

Caveat ID Number	Description
CSCvc55197	MTU of the PPPoE Dialer interface resets to 1492 while doing any change in the MTU config
CSCuz39286	Revert back of CSCuy70502 due to breakage in t_base_6
CSCti56560	QoS Policy affecting the behavior of other Policies
CSCts86510	NIGHTLY Build FAILED for 15.0M on 2011-09-17
CSCvb85692	Evaluation of sce for CVE-2016-5195 (DIRTY CoW)
CSCvc23570	Evaluation of sce for NTP November 2016
CSCux95215	Evaluation of sce for NTP_January_2016
CSCuy07466	Evaluation of sce for OpenSSL January 2016
CSCuy54627	Evaluation of sce for OpenSSL March 2016
CSCuz52530	Evaluation of sce for OpenSSL May 2016
CSCva93104	Auto ip sla probes tags doesn't work
CSCuy35425	IOS memory leak in SSLVPN
CSCsz11565	SSLVPN ACL: Router crashes on issuing sh logging command
CSCuv58654	Webvpn on Dialer interface fails unless CEF is diabled
CSCvc56129	router crash due to check read_notify value incorrect after TCP TIME_WAIT stage
CSCvc60745	tcp_getbuffer memory leak - refcount not reduced when packet dropped
CSCvc43540	AS5400XM Devices only provide a partial list of DSPs via SNMP tool when CISCO-DSP-MGMT-MIB is used.
CSCvc62742	[ICBC-CAP]: Preventive fix for crash in AFW DataList
CSCue49628	BACD Script crashes when live feed fails without moh on flash
CSCvc19168	Audio stream is lost from Gateway once it receives mid-call Re-inivte CUCM
CSCvc47166	One-way audio on held-resumed calls after 20 mins
CSCva22819	Processor pool leak due to CCSIP_SPI_CONTROL
CSCuy63974	VXML gateway randomly tear down TCP/HTTP link between CVP
CSCvc62747	VXML GW get MC_R_ERR and invalid mc error or cannot remove mc error
CSCvc70614	VXML GW IVR memory - active queue hold memory when clean http cache
CSCvc64275	VXML GW IVR memory get nagative number if memory usage exceed configured value

Caveat ID Number	Description
CSCvb54653	Incoming SMS not showing syslog messages IOS 15.6(2)T
CSCvc54438	Carrier is not seen under show cellular slot hardware in c819GW platform.
CSCva96611	IOS crash after upgrading EHWIC-4G-LTE-A
CSCvb16468	IR829: RSSI mib-trap commands are not recognized or accepted

Resolved Bugs—Cisco IOS Release 15.5(3)M4a

Table 12: Resolved Bugs—Cisco IOS Release 15.5(3)M4a

Caveat ID Number	Description
CSCvb51688	Sporadic crashes while using NBAR

Open Bugs—Cisco IOS Release 15.5(3)M4

Table 13: Open Bugs—Cisco IOS Release 15.5(3)M4

Caveat ID Number	Description
CSCtq80074	Crash seen @ trigger_auth_command
CSCut51090	The creation of line 40 seems to be pretty senseless.
CSCee00894	Non-Cisco client remaining in association table after they left BSS
CSCuy50465	Logging persistent may lead to IOS image corruption on the flash
CSCtr19078	IO Memory leak in cisco3270
CSCty26398	ACE entry with *established* KW in ACL drops TCP packets - SSH.
CSCuy95038	Router crashed due to skinny MOH
CSCut64219	Crash in IOS internals. ISM module on ISR G2
CSCuw58631	Crypto fragmented traffic may cause an ISM-VPN failure
CSCux04108	ISM drops fragmented traffic if virtual-reassembly configured (2)
CSCuv32874	ISM EZVPN client/server traffic fails when using VRF, NAT
CSCuz16978	ISM: Fragmented ESP packet not reassembled with ip virtual-reassembly
CSCuw77959	1801M - %DATACORRUPTION-1-DATAINCONSISTENCY: copy error

Caveat ID Number	Description
CSCuv86130	DHCPv6 Traceback message configured IPv6 DHCP client
CSCuz29721	Memory leak under HTTP EPM Redirect Daemon
CSCva39516	EIGRP /30 Serial Point-to-Point Subnet Not deleted after link down
CSCux41072	EIGRP sending hello messages with interface in passive mode.
CSCvb17493	897: CFM syslog messages not displayed
CSCuw43115	CSR1Kv XE 3.13.3S Crashed on clearing ip ospf process
CSCuw38090	No flow records sent when collect app http host/url and ssl added to FNF
CSCuy33991	Router crash after tunnel interface goes up and BGP adjacency is set up
CSCuv36677	IOS allows RC4-MD5 and RC4-SHA1 SSL ciphers to be negotiated by default
CSCva72881	crash due to Auth-proxy HTTP daemon process failing
CSCut70749	%SYS-2-NOBLOCK: may_suspend with blocking disabled. -Process= "IP Input"
CSCuy87957	ZBFW crash when inspecting protocol h323-annexe
CSCuo42832	IPS: Crash @ ips_dp_feature_action_internal with IPS,ZBFW,Scansafe ,NAT
CSCva50683	"CWS Telemetry Process" Crash on Whitelist Upgrade With CSCup94022 Fix
CSCur04161	CWS: Lazarus: 60 seconds latency seen after xml dwnload for Excpt Mgmt
CSCtz84873	Crash due to stack overflow: CCSIP_SPI_CONTROL running low, 0/60000
CSCuw65318	Cube is not passing REFER on second transfer attempt
CSCsy42345	Incorrect PRC values while configuring modem passthrough protocol codec
CSCva69488	Memory increase on CUBE with Media Forking Process
CSCva98002	DMVPN: Intermittent QM failures with error 32 after ISP outage
CSCvb08960	ezvpn client config dissapears from dialer int when pppoe session flaps
CSCva75125	L2TP/IPSEC from non-patted environment fails with set nat demux
CSCuv90519	Map doesn't get updated with socket change on local address change
CSCuw56669	DMVPN Phase3 OSPF Broadcast: NHO addition fails - insufficient resources
CSCva46032	FlexVPN: Hostname in DHCP is incorrect when using AnyConnect
CSCvb24236	FlexVPN: remote auth method isn't accepted in ikev2 profile
CSCuz77054	"sh crypto gdoi gm data counter" randomnly increases after REKEY
CSCvb21220	G-IKEv2: GM fails to process rekey after coop failover to new primary KS

Caveat ID Number	Description
CSCva44179	IKEv1 DPD delete logic causes stale phase 2
CSCuz27769	gateway sends connected name in iso even when ecma is configured
CSCva56729	Intermittent connectivity loss
CSCva72288	ISR1921/1941 Failing to cache all IP-SGT binding.
CSCvb36107	C897: Unresponsive to SNMP queries
CSCut46469	3900E output queue stuck
CSCuy01416	EHWIC-1GE-SFP-CU on ISR2951: MAC addr is not learned with EVC/BD config
CSCuu90215	Energywise output displays wrong values
CSCva97725	rj45-auto-detect-polarity enable/disable behavior and shut/noshut timing
CSCuu88260	no form of ipv6 mld snooping vlan commands are lost after router reload
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
CSCuv30976	ISR3945 GigE ports disappear under SM-ES3G-16-P card while doing OIR
CSCva46723	Small buffers leak with PPP
CSCuz95908	Memory leak due to path querry with Null outgoing interface
CSCux27009	Crash during unconfig nat translation which using pool type rotary
CSCuv03661	Intf placed in Admin Down after a reboot if no IP address is assigned
CSCuu81597	NAT inside interface is place in Admin Down after a reload
CSCtq48581	Natted traffic is getting process switched after reload.
CSCux28030	No ARP replay for NAT address in vrf
CSCuy45433	PPTP translations are stuck in NAT table after timeout
CSCuu21270	Traceroute freezes the router with ip nat enable configured
CSCux96341	3945 crash on flapping tunnels with traffic
CSCvb18256	PfRv3 Channels Not Deleted Once TC is Removed
CSCva72087	High CPU due to NHRP process when covering route isn't present
CSCva97469	VA stuck in protocol down state after failing to establish IPSec session

Caveat ID Number	Description
CSCuz66396	ASR1K: NTP: ntpq not able to retrieve delay/offset/jitter from router
CSCuz94245	IGP-LDP sync interoperability for OSPF multi area adj
CSCva86165	OSPF distance command does not work for newly added entries in ACL
CSCvb21484	PATH validation for Trustpoint configured with Enrollment via SCEP
CSCuz39286	Revert back of CSCuy70502 due to breakage in t_base_6
CSCti56560	QoS Policy affecting the behavior of other Policies
CSCts86510	NIGHTLY Build FAILED for 15.0M on 2011-09-17
CSCux95215	Evaluation of sce for NTP_January_2016
CSCuy07466	Evaluation of sce for OpenSSL January 2016
CSCuz52530	Evaluation of sce for OpenSSL May 2016
CSCux03601	Esrst 2nd CFW doesn't ring all phones with the same shared line
CSCva93104	Auto ip sla probes tags doesn't work
CSCva77149	Router crash when polling NOTIFICATION-LOG-MIB
CSCuz65461	ssh server accept unconfigured authentication method
CSCux86075	Unexpected crash during SSH operation
CSCuy35425	IOS memory leak in SSLVPN
CSCvb03342	IOS SSL VPN stuck reverse route blackholing IKEv2 connections

Resolved Bugs—Cisco IOS Release 15.5(3)M4

Table 14: Resolved Bugs—Cisco IOS Release 15.5(3)M4

Caveat ID Number	Description
CSCuz84796	NBAR does not support dialer interface support on IOS-XE
CSCva61103	Config replace with 2000 sites config, BGP router crash unexpectedly
CSCuz58682	Incorrect VPN withdraw with overlapping RT on multiple RT Filter
CSCva86436	no export ipv4 unicast map triggered router to crash
CSCva24325	NSF/SSO feature not honouring TCP MSS
CSCuz21061	router crashes after %BGP-6-BIGCHUNK + SNMP query.

Caveat ID Number	Description
CSCva25965	Router may crash after multiple show ip bgp sum/neighbor
CSCva22563	5920 and host OS's time causing the handshake validation to fail
CSCuy01239	In c5921, config-register value was not setting to value after reload
CSCuy35558	L2 firewall not working on c5921 platform
CSCva12766	Memory corruption, crash from Cavium GE driver on CGR 2010
CSCuw57474	CME Memory chunk Leak
CSCuz85779	CME getting crashed while running show ephone registered
CSCux77635	Incoming Delayed Offer SIP Trunk Call to Mixed Shared line fails
CSCuw91099	NGWC 5760 HA Crashed One After Another
CSCuy29071	stacklow crash while configuring mDNS
CSCuw57474	CME Memory chunk Leak
CSCuz85779	CME getting crashed while running show ephone registered
CSCuy01239	In c5921, config-register value was not setting to value after reload
CSCuy35558	L2 firewall not working on c5921 platform
CSCva12766	Memory corruption, crash from Cavium GE driver on CGR 2010
CSCuw57474	CME Memory chunk Leak
CSCuz85779	CME getting crashed while running show ephone registered
CSCux77635	Incoming Delayed Offer SIP Trunk Call to Mixed Shared line fails
CSCuw91099	NGWC 5760 HA Crashed One After Another
CSCux77635	Incoming Delayed Offer SIP Trunk Call to Mixed Shared line fails
CSCuw91099	NGWC 5760 HA Crashed One After Another
CSCuy29071	stacklow crash while configuring mDNS
CSCva30873	hairpin call loop crash
CSCuz56699	ISR 4k Paging over SIP / FXS phones have no audio
CSCva00899	C841M crashes randomly during execution of the reload EEM script.
CSCun71347	3850 Crash in "CEF: IPv4" Process While Processing ARP Throttle Elements
CSCuy29071	stacklow crash while configuring mDNS
CSCva30873	hairpin call loop crash

Caveat ID Number	Description
CSCuz56699	ISR 4k Paging over SIP / FXS phones have no audio
CSCva00899	C841M crashes randomly during execution of the reload EEM script.
CSCun71347	3850 Crash in "CEF: IPv4" Process While Processing ARP Throttle Elements
CSCuz81292	IPv6 neighbor discovery packet processing behavior
CSCuz61109	Self ping to port channel sub interface dropped with LISP decap log
CSCuv27265	ENH: Enable support for TLSv1.1 & TLSv1.2 for http secure server/client
CSCva15828	AN: Router crash during ACP flap pointing to ikev2
CSCuz81292	IPv6 neighbor discovery packet processing behavior
CSCuz61109	Self ping to port channel sub interface dropped with LISP decap log
CSCuv27265	ENH: Enable support for TLSv1.1 & TLSv1.2 for http secure server/client
CSCva15828	AN: Router crash during ACP flap pointing to ikev2
CSCuw52464	ISR reload with info file for FW feature set
CSCva75774	CWS/ISR 1900 15.5(3)M1 whitelist download enable stops updating
CSCuw52464	ISR reload with info file for FW feature set
CSCux59590	DNS resolution fails for CWS towers on an ISR when FQDN TTL > 300 secs
CSCuw33384	PBR not working when the recursive next-hop is not in routing table
CSCuz12967	Crash after show ip protocols vrf with RIP enabled
CSCuv86229	Interrupt stack overrun and crash due to recursive tunnel lookup, Part 2
CSCuz41999	Optimizing the EoGRE endpoint creation/deletion
CSCuz71535	3945 CUBE crash when 302 is received without user part
CSCva39669	CPU hog in sip_tls_tcp_read_socket if sipContext is NULL.
CSCux59590	DNS resolution fails for CWS towers on an ISR when FQDN TTL > 300 secs
CSCuw33384	PBR not working when the recursive next-hop is not in routing table
CSCuz12967	Crash after show ip protocols vrf with RIP enabled
CSCuv86229	Interrupt stack overrun and crash due to recursive tunnel lookup, Part 2
CSCuz41999	Optimizing the EoGRE endpoint creation/deletion
CSCuz71535	3945 CUBE crash when 302 is received without user part
CSCva39669	CPU hog in sip_tls_tcp_read_socket if sipContext is NULL.

Caveat ID Number	Description
CSCuz91476	CUBE crashed if Invite receive with Replcaes and missing User in FromTag
CSCuz47777	DTMF issue on ISR G3/ASR during the prompt using TCL Script
CSCva80218	ISR4431 crahsed due to possible memory leak issue due to CCSIP_SPI_CTRL
CSCuz73820	Memory Leak seen at CCSIP_SPI_CONTROL
CSCuz91476	CUBE crashed if Invite receive with Replcaes and missing User in FromTag
CSCuz47777	DTMF issue on ISR G3/ASR during the prompt using TCL Script
CSCva80218	ISR4431 crahsed due to possible memory leak issue due to CCSIP_SPI_CTRL
CSCuz73820	Memory Leak seen at CCSIP_SPI_CONTROL
CSCuz71250	Router crashes when parsing ack for mid call
CSCuv97379	[ST-P] STBY router crashed on disconnecting call on ACTIVE
CSCuz85769	GETVPN : total packet loss after 2nd ESP switchover (PI-fix)
CSCuz71250	Router crashes when parsing ack for mid call
CSCuv97379	[ST-P] STBY router crashed on disconnecting call on ACTIVE
CSCuz85769	GETVPN : total packet loss after 2nd ESP switchover (PI-fix)
CSCva28243	Crash in IKEv2 when using FlexVPN + RADIUS
CSCuu44128	GETVPN on ASR with vasi interface fail to install the Rekey
CSCva28243	Crash in IKEv2 when using FlexVPN + RADIUS
CSCuu44128	GETVPN on ASR with vasi interface fail to install the Rekey

Open Bugs—Cisco IOS Release 15.5(3)M3

Table 15: Open Bugs—Cisco IOS Release 15.5(3)M3

Identifier	Description
CSCuz60599	ISR router crash when using secure login with %SYS-2-CHUNKBADREFCOUNT
CSCuz83800	Barramundi C5921 unable to launch in Microsoft Surface Pro 4 machine
CSCuz50985	Router crashes with Bad magic number in cce dp cft chunk header
CSCuz82749	PMIP MAG configuration needs error checking on config change
CSCuz87695	SCCP Phones on CME not forwarding video packets on outbound calls

Identifier	Description
CSCuy84435	shared line SIP-SCCP not working on ESRST gateway
CSCuv98094	I/O pool not freed soon enough and kept running out when it is depleted
CSCux74992	IPv6 Route over Dialer is installed even before the PPP negotiation
CSCut49912	Incoming packets from VDSL link discarded under high load
CSCuz79923	'media statistics' should follow 'allow-connections'
CSCuz46782	CUBE - No audio for DO-EO FA when PRACK enabled on incoming call leg
CSCuz74014	CUBE responds 500 Internal Server Error to received= instead of via
CSCuw81524	Latency values are more for tx-ring 2 than tx-ring 64
CSCuz88659	ping loss on C891FJ-K9
CSCuz02837	Port is not coming up after reload if CDP is disabled
CSCuz70409	HWIC-4ESW randomly stops forwarding multicast streams.
CSCuu90215	Energywise output displays wrong values
CSCuz58300	3900	Ping latency seen on reseat of onboard SFP port
CSCuu88260	no form of ipv6 mld snooping vlan commands are lost after router reload
CSCuz73595	ifInMulticastPkts doesn't count up on vlan interface
CSCuz86736	ISR3925 // SM-X-1-T3/E3= // Flapping Issue while XR on far end device
CSCuz78328	Router crash due to PA FO chunk corruption
CSCuz76045	'Ctrl TC Message corrupted' messages seen with PfRv2
CSCuy35425	IOS memory leak in SSLVPN
CSCuz39203	ASR1K - ESS Peruser ACL Feature error when attempting to delete
CSCux28671	%AAA-3-BUFFER_OVERFLOW: Radius I/O buffer has overflowed on 154-3.M3
CSCuy93968	Link Recovery not working
CSCuy25654	Modem (eHWIC) got into boot & hold state after continuous mod-pwr-cycle
CSCuz90489	'sh cellular profile' & 'sh cellular microcode' output not as expected

Resolved Bugs—Cisco IOS Release 15.5(3)M3

Table 16: Resolved Bugs—Cisco IOS Release 15.5(3)M3

Identifier	Description
CSCuy32360	Crash after Quiet mode is triggered with login block-for configured
CSCux56322	router crash with memory corruption related to vstack feature
CSCup03795	SPAN breaks on ACTIVE port after switchover in VSS setup
CSCuy03054	ASR1K IOSd may crash in BGP Accepter process due to segmentation fault
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
CSCux76332	Deleting a statement in export map, removes other statement
CSCux96029	GR Non-restarting peer does not advertise VPN routes default RT filter
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
CSCuv01607	Invalid spi, Attempt to use contiguous buffer as scattered, Full queue
CSCux43630	ISM : Router with ISM module stops passing traffic
CSCux44277	ISM-VPN GDOI: GM with crypto map on two interfaces stops decrypting ESP
CSCux20978	VPN-ISM: IPSEC tunnel gets stuck
CSCuw02624	IOS:Cannot periodically establish SSL connection
CSCux79855	TPS Server failure in crypto_engine_pk_decrypt breaking https post sso.
CSCux47834	DHCP server crashed when updating DDNS entries
CSCux60876	Memory corruption due to DHCP
CSCuu43892	switch crash on qpair_full after executing dhcpd_* functions
CSCuz62786	ISR4K sccp based transcoding hanging dsp-session_leg on data-plane
CSCux82241	$$TS: EIGRP SAF sequence not same for site-prefix and discovered site

Identifier	Description
CSCux92391	$$TS: SAF service 5 is not seen on 3945e branch after HUB MC reload
CSCuv74256	IOS: HMAC key miscalculated with DH Group 21 and IPSec PFS enabled
CSCux49494	'allow connections' or 'telephony-service' config is required on ISR4k
CSCuw12720	MallocLite memory leak due to EEM when using 'file open' action.
CSCux68976	Crash in fib_fib_get_fib_tableid
CSCux06777	Device crash with RPF configured.
CSCuy38707	After RSP switchover, BFD hangs for up to 10 minutes before converging
CSCut92547	Crash at pp_delete_socket
CSCuy48358	Crash during SIP subscribe notify ACK
CSCuz64285	Cube fails to send the SIP Error code response
CSCuy40672	One way audio in a DODO call after transfer with REFER disabled
CSCuz69975	Under load crash is seen in CVP REFER_PASSTHRU scenario
CSCuz81381	Under load crash seen in CVP REFER_MIDCALL_SINGNALING_BLOCK scenario
CSCuy30957	For IPv6:Activate Under GDOI Fail-Close Disappears on Reboot
CSCuy43118	XE316: HubBR might be crashed@tunnel_protection_validate_shared_profile
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
CSCuv31981	ISR Router Crashes When Trying to Delete a Freed SA
CSCux99250	ASR 903 IPv6 Multicast crashes
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
CSCuz67357	NID VLAN config not working on c897VA CPE's for VDSL interface
CSCuv49227	'bfd interval' values only 999-999 in Port-channel sub-interface mode
CSCut86321	Tx hang on 2951`s GigabitEthernet IF
CSCut34058	Memory Fragment on SM-X-1T3/E3= with Serial Background process
CSCus72718	L2TPv3 session pending between 2 devices

Identifier	Description
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
CSCuy13792	ISR G2 Crash on Quick 4G Tunnel Template MTU and Adjust-MSS Change
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
CSCuy42200	IOS-XE Watchdog Crash in cent_rpi_route_lookup_n_monitor_start
CSCuy32099	ISR G2:WAN Intf withdrawn when channels in Init State become unreachable
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
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
CSCuo61229	ASR1002 Crashed after 'show pfr master active running'
CSCuy85870	Wrong TD next-hop for overlapping prefixes
CSCuu61536	AN: Registrar (RA mode server) crashed after shut/unshut int to CA.
CSCuy33129	G2 routers not able to download Trustpool due to nvram space
CSCux52544	PnP Fails to Initiate with Non-VLAN1 Feature Configured
CSCuw55717	Memleak @ pak_pool_cache_item_get : Scaled TFEX
CSCuy55849	RTR installs the ISIS(or OSPF) route with Higher Metric in the RIB
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
CSCuv41355	Unable to telnet -- No wild listener: port 23
CSCuy55764	Abnormal functionality of L2 firewall in c5921
CSCuz03079	ISR-4K Processing Error: H323 Setup parameter 'mediaWaitForConnect TRUE'
CSCuy65330	RSVP Reservation Failure Causes Call Drop on Voice to Video Calls

Identifier	Description
CSCus45019	Media loop detection failure
CSCuy14532	rtp/rtcp media activity timer doesn't trigger when only 1 rtp leg drops
CSCux54794	Configuration under the E&M voice-ports are missing after the reload
CSCux88265	DSP errors seen and audio fails for MGCP-FXO to IP Phone call
CSCuy16501	Static noise introduced on FXO after IOS upgrade
CSCuz52693	ISR 4K Memory Holding in CCSIP_SPI_CONTROL
CSCus03761	Stack overflow crash @ ip_epm_proxy_slow_check.
CSCuz17364	DTMF Type ahead buffer on GW with Nuance not working

Open Bugs—Cisco IOS Release 15.5(3)M2

Table 17: Open Bugs—Cisco IOS Release 15.5(3)M2

Identifier	Description
CSCef23633	Pushing additional config via VxWorks takes too long
CSCuv01607	Invalid spi, Attempt to use contiguous buffer as scattered, Full queue
CSCuw90008	ISM is stuck during installation of GETVPN policy
CSCux20978	VPN-ISM: IPSEC tunnel gets stuck
CSCuw02624	IOS:Cannot periodically establish SSL connection
CSCux47834	DHCP server crashed when updating DDNS entries
CSCux60876	Memory corruption due to DHCP
CSCux74992	IPv6 Route over Dialer is installed even before the PPP negotiation
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
CSCux41072	EIGRP sending hello messages with interface in passive mode.
CSCuv74256	IOS: HMAC key miscalculated with DH Group 21 and IPSec PFS enabled
CSCux68976	Crash in fib_fib_get_fib_tableid
CSCus76858	IPS auto update failed, Internet links goes down and comes up
CSCuv27265	ENH: Enable support for TLSv1.1 & TLSv1.2 for http secure server/client

Identifier	Description
CSCuv36677	IOS allows RC4-MD5 and RC4-SHA1 SSL ciphers to be negotiated by default
CSCux78157	3925 crashes when applying HTTP inspection policy under ZBF policy
CSCux59590	DNS resolution fails for CWS towers on an ISR when FQDN TTL > 300 secs
CSCuw75695	Router crash due to Process = SSS Manager
CSCuu60689	Packets dropped by ingress ACL when IPSec + ACL configured for IPv6
CSCuv13096	IPsec Mixed Mode support for VTI
CSCux83732	Pseudotime not being synchronized between GETVPN Key Servers
CSCux25628	Diffie Hellman computation fails due to leak in crypto engine
CSCur68316	802AP-891 in flexconnect mode are losing vlan mapping after power cycle
CSCuw81524	Latency values are more for tx-ring 2 than tx-ring 64
CSCux20993	MLP fragmentation issue with EHWIC-VA-DSL-A and 887VA
CSCuj86253	2900 w/ Multiple EHWIC-4ESG-P's and L2TPv3 via SVI's drops 50% multicast
CSCut34058	Memory Fragment on SM-X-1T3/E3= with Serial Background process
CSCux66881	%SYS-2-GETBUF: Bad getbuffer when IPv6 and NAM enabled
CSCut45177	CWS HTTPs traffic fails to load on ISR configured with NVI
CSCuw65792	CWS not associating CN with nested groups when ', (comma)' is used
CSCuw20313	Router crash configuring IPv6 over IPv4 tunnel on NEMO tunnel template
CSCuu21270	Traceroute freezes the router with ip nat enable configured
CSCux80988	Crash on router due to netflow
CSCux73913	PFRv3 router crashed due to CPUHOG/Watchdog process = CENT-MC-0.
CSCuu98027	onepk memory corrupt crash when repeating sh policy-map
CSCux61776	Crash while applying a crypto trustpoint
CSCux07723	Router crash when ISP removes the patch cords connected to Gig 0/2
CSCux18948	High CPU due to alignment errors caused by smef_cmd_pre_decap
CSCuv41355	Unable to telnet -- No wild listener: port 23
CSCux44315	Per Call Debugging system restart by address error
CSCus03761	Stack overflow crash @ ip_epm_proxy_slow_check.

Resolved Bugs—Cisco IOS Release 15.5(3)M2

Table 18: Resolved Bugs—Cisco IOS Release 15.5(3)M2

Identifier	Description
CSCux46432	AAA crash on multiple username deletions
CSCuw86386	AAA crash when removing TACACS servers
CSCuv85354	Cauvery:Crash on configuring aaa commands
CSCuu59324	router crashes @aaa_memerase
CSCut74192	bfd session not coming up after interface in vrf shut and no shut
CSCus94258	AIGP metric not used when NH has AIGP attribute
CSCuw79017	MPLS VPN: Crash when rt import is added under vrf definition
CSCux13904	Bolt: Modem stays in boot and hold mode after f/w upgrade
CSCuw64684	Packet loss observed during oversubscription of QOS in c5921
CSCuw06084	DTMF not getting recognized on ISR G3 when using TCL Script
CSCux18010	Cisco Networking Services Sensitive Information Disclosure Vulnerability
CSCux37497	Malloc Issues with chunk manager perf_mon_async_cft_create_fo()
CSCus56080	Memory leak in using ISM-VPN module at pse2_ge_rx_interrupt
CSCut42645	input queue wedged on a SSLVPN enabled router
CSCut10251	Some commands are not in running-config after AUTOINSTALL finishes
CSCus99015	"clear mac-address-table" removes sticly address from configuration
CSCup94022	CWS: WL: Crash seen after "no whitelist down" during XML Download
CSCuu82082	Memory corruption crash due to cont_scan_display_session
CSCuv59457	Exposed username and password in log when EPC export fails
CSCuq13031	[Beni]IOSD crash report@rip_add_idb in VSS setup on latest Beni [61.E]
CSCuv75728	CUBE crashed @ __be_sipSPI_ipip_antiTrombone, Antitrombone Call
CSCuw23947	Activate Under GDOI Fail-Close Disappears on Reboot
CSCuw99554	ASR crashes on removing the sub-interface on HSRP active router
CSCux09048	flow restrict on backup crypto map causes traffic to fail
CSCuu96199	ISM unexpected behaviour with stateful ipsec

Identifier	Description
CSCuu52012	Router crash when we execute show run | format command
CSCuv94186	SNMPWALK crash at ipsmIPSec_policyOfTunnel
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
CSCuu05855	Input rate is reduced after configure un-configure test
CSCuv06763	c897VAB: Bitswap is not working correctly
CSCux33431	VDSL Controller stuck and crash with c897VAB
CSCut40341	Line protocol on SM-X-1T3/E3 configured for frame-relay remains down
CSCuw14948	HSRP vip ping failure after power off one side Router with SM module
CSCus82816	Crash in tup_lookup_func in Scansafe feature
CSCux05779	LISP possible segmentation fault with DDT enabled
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
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
CSCux29515	$$SS: branch MC shutdown itself with dual BR branch with multi-WAN topo
CSCux60466	PfRv3 - CPUHOG pointing to cent event-trace
CSCut61985	MPLSoDMVPN; Ping to spoke int. fails if dest. mask is /32
CSCuv80670	Registration requests not initiated on tunnel source change
CSCuw85826	Evaluation of Cisco IOS and IOS-XEl for NTP_October_2015
CSCuu55332	OSPF NSR: Standby Crash on no shut of interface with ip address dhcp
CSCuw57225	PFRv2 not work well for 10% inbound load-balance
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
CSCuu68032	IOS-XE crash when trying to auto-enroll with usage keys

Identifier	Description
CSCuv62299	CUBE crashed @ ccTDPvtGetTDObjectFromProfileTab AFW Process
CSCux17298	ISR-G2: Gigabit Ethernet interface is always in shutdown after reload
CSCuw15272	PNP non-vlan 1 zero-touch upgrade does not work
CSCuw51653	SIP SRST router in eSRST mode reject phone registration due to + DN
CSCuv22571	Memory corruption crash after show ip sla commands
CSCuw59675	watchdog crash after 'ip sla reset'
CSCtn75051	%SYS-3-TIMERNEG: Cannot start timer with negative offset
CSCuu78845	IOS 15.5 SSH auth does not progress to next method
CSCuu10241	DTLS related traceback on an IOS router terminating SSL VPN.
CSCux03041	LDP NSR: Session Flaps on Standby RP Due to MD5 Authentication Failure
CSCuu71299	MPLS LDP flap with %TCP-6-BADAUTH: No MD5 digest
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
CSCux45574	DSP channel not released on ISRG3 incoming FXO call
CSCux22874	On demand PCM captures needs to be available on ISR4k routers
CSCuw16166	ob-callid in source-uri field is different from the OB call's Call-ID
CSCuv93812	RTP ports hung on Router.
CSCuu25704	Memory corruption in the IO pool when a t38 fax gateway receives t37 fax
CSCux29793	2 extra Interim Accounting messages sent after SRL service activation
CSCur71089	SIM toggling between sim0 and sim1

Resolved Bugs—Cisco IOS Release 15.5(3)M1

Table 19: Resolved Bugs—Cisco IOS Release 15.5(3)M1

Identifier	Description
CSCur84322	"IOSXE-WATCHDOG: Process = RADIUS " crashed with crafted Radius response
CSCur25121	"IOSXE-WATCHDOG: Process = RADIUS " process crash with authenticated pkt

Identifier	Description
CSCur27693	"Process = RADIUS " Crashed with crafted Radius response
CSCus21322	Adding NAS_IPV6_ADDRESS in the Sanet
CSCuj60066	Amur: Katana crashes in "EAP process framework" when we start roaming
CSCug18580	ASR1k crash: UNIX-EXT-SIGNAL SEGFAULT, Process = AAA ACCT Proc
CSCut27272	CPUHOG and crash due to Auth Manager process
CSCur59242	Crash due to tplus_client_stop_timer
CSCur82459	DIAMETER trap getting enabled when PKI trap enabled
CSCut09164	Memory leak in AAA/EAP code in 3.3.5
CSCut31678	Memory leak in AAA/EAP code in 3.3.5
CSCur51387	NG3K stack: standby gets reloaded due to reason "configuration mismatch"
CSCuu88084	DSCP Marking for IPv4 and IPv6 broken
CSCuu85298	FIB/LFIB inconcistency after BGP flap
CSCuv07111	IOS and IOS-XE devices changing the next-hop on BGP route with own IP
CSCut16884	Reloading the router,the attach and data profile change to profile 1
CSCuv66776	MQC Policy-map counters do not update in T3/E3 SPA
CSCuw11898	c5930 : Crash leaded by BADSHARE messages when shaping traffic
CSCuv60523	c5930: Enable accurate accounting of CPU usage
CSCut99733	Modifying the filters in the child class-map is not working properly.
CSCuv74915	Router crash @ cce_dp_udb_vm_preclassify_process
CSCuv31435	"cns id udi" does not apply to ISRG2 device when using auto install.
CSCuu73697	ISM drops fragmented traffic if virtual-reassembly configured
CSCuv75232	Cauvery: Standby reload due to sync failure with crypto key zeroize cmd
CSCut03230	Crash when we configure primary tower name with char out of boundary
CSCuu50392	aaa attr list leak at dsensor_process_pkt_update_cache
CSCus25205	Traceback@eigrp_process_dying during unconfiguration
CSCuw17253	XE316: UNIX-EXT-SIGNAL: Segmentation fault Process = Service Routing MCP
CSCuu87276	Link-protection group config is removed from interface after IM_OIR
CSCuu54190	mpdb is getting incorrectly populated

Identifier	Description
CSCuv45996	DM on EVC BD Up mep, reload inactive SLA session showing wrong values.
CSCuu68439	Crash after no route-target import command
CSCuu26303	Router crash triggered by service policy and ipv6 traffic
CSCuw05651	EzPM causes STACKLOW message and a subsequent crash
CSCuv43978	IPv6 GRE over 6PE does not work properly
CSCuv77279	IPv6 GRE over 6PE tunnels not working after deletion of non-default VRF
CSCuv80943	MCP_DEV:Packet drops@Ipv6NoRoute with ipv6gre configs
CSCuv99758	Remove unnecessary packet debugs for UDP tunnels
CSCuu56407	ASR1k Crashes with x-cisco-cpa in INVITE and when no DSP configured
CSCuu90168	CUBE crashed due to memory hoding @ TCP_SOCKET
CSCuv61186	DSP resources not relesed after Hold Resume
CSCuv37786	ISRG3 Core pointing to CCSIP_SPI_CONTROL process
CSCuu44302	Memory leak under process RECMSPAPP with PC voip_rtp_create_fork_object
CSCuu29667	ASR1K crash when snmp setting cipSecTunnelEntry
CSCuv61208	ASR1k EasyVPN server looses RRI for clients behind PAT
CSCuu54392	Different Tunnel Protection with shared profile cannot be used
CSCut32594	OSPFv3 encryption - Adjacency not up after reload
CSCus85701	AQoS peer mismatch with NAT
CSCuv66070	Crash on executing "show nhrp group-map" command
CSCuw09293	DMVPN Per-Tunnel QoS removed when spokes re-register with changed NBMA
CSCuu93699	Crash on IKEv2 cluster hub when anyconnect client tries reconnect
CSCuv79429	IPSEC: static reverse-route is removed after retransmissions in IKMP
CSCuv26780	Memory leak when qos pre-classify is configured with Crypto
CSCur18715	CUCM native queue call disconnect due to Application AckTimer expire
CSCut88270	Duplicate hsrp vmac entries after OTV AEDs fail over
CSCuu77927	OTV stuck in inactive status when failover due to missing isis vlan tlv
CSCuu83204	Tracebacks are seen after DHCP address was assigned from secondary pool
CSCuv37210	SM-X-1T3/E3 show controller serial x/y crashes 3900e

Identifier	Description
CSCut58291	Crash in L4F (tup_lookup_func) with CWS configured on the router
CSCuq70725	LDAP Address Error at ldap_clear_transaction_all
CSCus48386	POODLE related fix : LDAPv3 client REQUIRED to support TLS
CSCuv60931	Memory leak pa_get_scratchpad @ Pi29
CSCuq82122	SSTE: Router crashed @mace_dp_remove_feature_object_for_cli
CSCuu12600	SR is not working fine in mk2fc2-sup720 device
CSCus61461	Terminator crashed with Extranet configuation
CSCuv02246	With access interface flap, traffic doesnt switch back to data mdt.
CSCuu90695	DM/SM boundary (S,G) are not repopulated: Multicast Missing Registration
CSCuv37022	Extranet MVPN traffic is getting dropped & not switched to data MDT
CSCuw49097	Loss of communication between IOS and Modem
CSCuv15708	PI29:Traceback seen on bgp_lmm_vpn_label_alloc
CSCuu92423	NBAR: memory leak in nbar control-plane causes crash in IOSd
CSCuw32937	NBAR: memory leak in NBAR CP when AVC is active
CSCuv76175	Branch MC publish globals (5) service type override hub MC's publish
CSCuv49459	dVPN: memory leaking and traceback@cent_ipc_ext_int_notify
CSCuv02300	PfRv3 - crashed at __be_cent_capability_xml_encode
CSCuv36350	PfRv3 - inaccurate Channel Egress Bandwidth in sh domain <d> mas channel
CSCuu70896	PfRv3 - path-id 0:0 shows in output of sh domain iwan master status
CSCuw51471	PfRv3 - SYS-3-CPUHOG process CENT-BR-green with 1 Traffic-class
CSCuv07769	PfRv3 crashed at _be_cent_coll_nfv9_process due to memory fragmentation
CSCuu76165	PfRV3: stale channel status with TCA 00:00:00 later, never recover
CSCuv83586	PI25: channel flapping with NBAR based QoS Policy for NTT
CSCuw27773	Suppress TCA when channel has no next hop
CSCuv77045	TC cannot be delete on PD side when site-prefix is deleted
CSCuv65370	Avoid any action on Leap SEcond indictor flag for non-leap second months
CSCuv23475	CPUHOG and crash on "no network 0.0.0.0" with vnet configuration on intf
CSCus68229	Memory leak in OSPFv3R

Identifier	Description
CSCuv22992	PFR router crashes due to watchdog when displaying config
CSCuu98524	PFR/OER related IOS crash
CSCuu97977	Pfrv2 load-balance not working with passive mode.
CSCuu68144	Crypto CA process Traceback after PnP preprovisioned rule match
CSCuu18348	IOS PKI HA fails to initialize on standby router after reload or upgrade
CSCuu81737	Router crashes when using crypto
CSCuu46604	Router crashes when a failed primary link comes back up
CSCuu68862	SUP crash @ Process = SNMP ENGINE
CSCuu82607	Evaluation of all for OpenSSL June 2015
CSCus88868	IOS openssl leak observed with SSL Anyconnect VPN
CSCut35260	SSL Handshake failure with rc4-128-md5 cipher on ASR/ISR platforms
CSCuv38711	Router crash at SSLVPN_PROCESS
CSCuv11468	TCP accesses the ARP table in Interrupt context
CSCuw47130	STCAPP commands gets removed after reloading 43XX/44XX routers
CSCuq24202	Cisco IOS TCL script interpreter privilege escalation vulnerability
CSCuv51901	ASR1K BGP send UPDATE don't observe the TCP OPTION
CSCuv87609	QoS Policing and queuing broken on ATM Bridged interface for IPv4/v6
CSCur67691	Continous reload issues seen on ASR1K B2B Redundancy
CSCuu60542	Route crashed at KA in function flex_dsprm_send_vtsp_alarm_indication
CSCuv34164	Crash after SCCP session tear down via no sccp command
CSCuw26259	SIP SUBSCRIBE msg is responding back with 503 Service Unavailable
CSCuv23813	Crash at be_cellular_get_mgmt_instance when no shut 1T

Open Bugs—Cisco IOS Release 15.5(3)M

Table 20: Open Bugs—Cisco IOS Release 15.5(3)M

Identifier	Description
CSCuj86253	2900 w/ multiple EHWIC-4ESG-P's and L2TPv3 via SVI's drops 50% multicast.

Identifier	Description
CSCup94022	Cloud Web Security whitelist: Crash seen after configuring the no whitelist down command during XML download.
CSCuq64532	Firebee router's PIM hellos dropped intermittently in Firebee port.
CSCuq67912	Firebee: After shut/no-shut of mrouter port, IGMP snooping stops working.
CSCuq70725	LDAP address error at ldap_clear_transaction_all.
CSCur09167	Multicast to receiver stops when another receiver joins an aliased multicast group.
CSCur83620	DHCP configured interface transitions to static after interface flap.
CSCus45019	Media loop detection failure.
CSCus53310	DHCP relay for IP phones not forwarded out.
CSCus56080	Memory leak in using ISM-VPN module at pse2_ge_rx_interrupt.
CSCus76858	IPS auto update failed, Internet links go down and come up.
CSCus85701	A QoS peer mismatch with NAT.
CSCus90133	IOS crashed after issuing the "test cellular 0 modem-power-cycle" command.
CSCut16273	On ISM with the no ip cef command, session fails with memory leak after clear crypt session.
CSCut16884	After reloading the router, the attach and data profile changes to profile 1.
CSCut25702	2960X 802.1x per user ACL blocking all traffic.
CSCut34058	Memory fragment on SM-X-1T3/E3= with serial background process.
CSCut42645	Input queue wedged on a SSLVPN enabled router.
CSCut45177	Cloud Web Security HTTPs traffic fails to load on ISR configured with NVI.
CSCut57456	The copy run http command crashes.
CSCut67841	Output drop on cellular interface during Wifi + LTE performance testing.
CSCut85312	H245 accessing free chunk.
CSCut86321	Tx hang on 2951`s GigabitEthernet interface.
CSCut96721	Crash on PfR master router at oer_mc_apc_changed_prefix.
CSCuu08872	Crash on PfR master router at pfr_exp_send_tc_config_internal.
CSCuu12283	CUBE failed to create DP session on the standby for Webex flow.
CSCuu20332	FW switching with longest folder name or blank name.
CSCuu21270	Traceroute freezes the router with the ip nat enable command configured.

Identifier	Description
CSCuu26303	Router crash triggered by service policy and IPv6 traffic.
CSCuu26920	PfRv3: Non-unique path-ID between DCs results in channel issues.
CSCuu33351	Input queue wedge due pool_grow_cache.
CSCuu35179	7206VXR (NPE-G2) -VSA: Enabling HA SSO crashes the standby router.
CSCuu40244	Memory leak in c3600_cpu_input_pak_coalesce with WebVPN enabled.
CSCuu40386	Zone-Based Firewall HA: Routers not replicating asymmetric traffic from standby to active.
CSCuu44820	Spurious memory access caused router to crash with phone proxy.
CSCuu57313	RAI with options bound to the loopback interface does not work.
CSCuu60689	Packets dropped by ingress ACL when IPSec + ACL is configured for IPv6.
CSCuu66041	Reload is required after FW upgrade; otherwise FW corrupts with add FW upgrade.
CSCuu68675	C819GW-LTE-GA-EK9 - After FW upgrade, modem goes down and does not come up.
CSCuu71048	Modem's ESN value replaced by Vzw SIM's ESN after FW upgrade.
CSCuu71299	MPLS LDP flap with %TCP-6-BADAUTH: No MD5 digest.
CSCuu71473	Rework for CSCun57148 - High CPU in FNF Cache Ager.
CSCuu72850	SNMP crash while polling EHWIC-4G-LTE-V.
CSCuu73005	PfRv3: Unreachable TCA when detected when TC aging out on remote site.
CSCuu73697	ISM drops fragmented traffic if Virtual Reassembly is configured
CSCuu78845	Cisco IOS 15.5 SSH authentication does not progress to next method.
CSCuu79690	FW upgrade does not work after Dm log is off (disabled).
CSCuu82082	Memory corruption crash due to cont_scan_display_session.
CSCuu84021	FW upgrade to unsupported FW corrupts the original FW.
CSCuu86952	C819G-4G-GA-K9 crashes after clear interface cellular 0.
CSCuu90168	CUBE crashed due to memory hoding @ TCP_SOCKET.
CSCuu95643	CISCO 2921/K9 with Call Manager XML client crashes.
CSCuu96199	ISM unexpected behavior with stateful IPsec.
CSCuu98027	OnePK memory corrupt crash when repeating the show policy-map command.
CSCuu98467	FNF stops working after a few hours.
CSCuu98524	PfR/OER related IOS crash.

Identifier	Description
CSCuv01156	No command on ESR to set the password minimum length.
CSCuv01607	Invalid SPI: Attempt to use contiguous buffer as scattered; full queue.
CSCuv01894	NMI crash: NBAR.
CSCuv06116	Cellular interface gets reset.
CSCuv07111	Cisco IOS and IOS XE devices changing the next-hop on BGP route with own IP.
CSCuv08073	ECIO display value is wrong in CDMA mode.
CSCuv18154	Sprint 1xRTT can attach but PING does not go through.

Resolved Bugs—Cisco IOS Release 15.5(3)M

Table 21: Resolved Bugs—Cisco IOS Release 15.5(3)M

Identifier	Description
CSCuh36583	Cisco ISR G2: DSP Crash due to backplane switch lockup during T1 errors.
CSCun31438	Abnormal call disconnection due under load due to DP errors.
CSCun94946	Cisco IOS: Vulnerability in zone-based firewall.
CSCuo74823	Crash when the show frame-relay multilink detail command is issued.
CSCuo75572	Cisco IOS Software IKEv2 Denial of Service Vulnerabilities
CSCup32531	Both ESPs crash at AOM parent when flapping 6K FlexVPN sessions.
CSCup67654	ISM-VPN module crash due to memory leak: Traceback = 1000b8a0 or 1000b8c0.
CSCuq59704	W153657-SDK APIs return errors.
CSCuq91734	NHRP packets are dropped after Easy VPN decryption.
CSCur01171	Memory leak in MRCP_CLIENT in add_to_hoststatus_table.
CSCur23656	Cisco IOS and IOSd in IOS XE Release: Evaluation of SSLv3 POODLE vulnerability.
CSCur29582	IPSec VPN: Removal of crypto-map command kills BFD session forever.
CSCur45606	Logging discriminator does not work.
CSCur54389	SRTP-RTP call with HOLD/RESUME disconnected.
CSCur63914	IOS zone-based firewall not clearing half-open MSRPC sessions and these sessions hang.
CSCur66140	Import of global routes to VRF fails.

CSCur70959	Memory leak @ sipContentObjPvtSetBody.
CSCur78325	Enrollment retry is not happening during initial enrollment/auto-enroll.
CSCur77354	Router reloads due to dhcpc_addr_purge accessing a previously freed IPL.
CSCur82431	Failure of path confirmation in multiparty adhoc conference call.
CSCur83129	Error message: SOC4E command fail seen in live network.
CSCur88684	C897VAB Ethernet0: Output-queue stuck in full state (40/40).
CSCur96758	DDNS not updating the change in URL.
CSCur96943	CCSIP_SPI_CONTROL leak in sippmh_parse_record_route.
CSCus07134	Redundancy inter-device broken with security ipsec.
CSCus13902	Failure seen in OER border router functionality.
CSCus26844	Interrupt stack overrun and crash caused by MPLS recursive tunnel lookup.
CSCus48378	CNS feature required to support TLS.
CSCus48386	LDAPv3 client required to support TLS.
CSCus51038	Media forking fails for a Do-EO call in flow through mode.
CSCus54238	PKI "revocation check crl none" does not fallback if CRL is not available.
CSCus54365	Memory leak in tlv_calloc.
CSCus65095	SSTE: QoS pre-classify was broken.
CSCus66497	IOSv instances stop responding.
CSCus68017	Ping over mismatch-link efm-bond in auto mode fail due to fcs error.
CSCus68229	Memory leak in OSPFv3.
CSCus72019	DHCP server crash when DHCP client interface transitions to shutdown or no shutdown.
CSCus72257	50% ping failure with IPv6 dual stack and dialer configured.
CSCus73816	C888-K9 is not working with Cisco IOS Release 55-1.23.T image.
CSCus74192	Link down event does not flush the routes correctly with ISIS.
CSCus75537	Add the TLS_RSA_WITH_AES_128_CBC_SHA cipher suite support for VXML httpc
CSCus75907	Router crashes when Fax T38 protocol configured.
CSCus77335	Tags are not set for OSPF/EIGRP packets with VRF.
CSCus77343	DSMP crash while doing OIR or module reload when active call exists.
CSCus77875	List headers leak verified cert chain Held CCSIP_TLS_SOCKET & Chunk Manager.

CSCus78750	6RD: Knob to disable security check missing.
CSCus80423	CISCO1921/K9 / DNS process caused CPU hog and router crash.
CSCus89274	Crash with NAT/reflective ACL and TCP session going through the box.
CSCus89791	Codec g722-64 crash during dial tone with country code.
CSCus91250	Basic call in conference block scenarios fail with Cisco IOS Release 15.5(1.23)T0.2 version.
CSCus92437	VXML gateway crashes when video needs to be played to caller in queue.
CSCus94048	Traffic policing technique is not working over ATM interface.
CSCus95226	Compact flash corruption due to call-home directory being created.
CSCus95936	BRI goes down when a policy-map is applied directly.
CSCus97420	httpc crash at on more http:/' command.
CSCut03793	IGMP snooping on VLAN remains in disabled state even after enabling.
CSCut08626	DSMP crash at DSP packet buffer allocation.
CSCut11714	Router crash on defaulting interface with CFM configuration.
CSCut17865	Cisco ASR 1000 Series Routers:13RU IOSd crash @PnP Agent Discovery after router reload.
CSCut18365	Tracebacks found @ moh_multicast_recv_input.
CSCut24140	Old active not coming up after first SSO; also seeing a traceback.
CSCuu26224	CUBE with SRTP fallback will crash when call hit on incoming dial-peer 0.
CSCut26305	Cisco CSR1000 V: next reload license level is not working.
CSCut27260	Not able to boot with Cisco IOS Release 15.5(2.3)T image on C867VAE-W-A-K9 platform.
CSCut27272	CPUHOG and crash due to Auth Manager process.
CSCut28445	CSCur47160 broke load balancing.
CSCut30579	Dynamic PBR policy inconsistent & never update after path failover.
CSCut38455	Cisco Anyconnect SSL connectivity issues after some period of time.
CSCut45089	CWMP configuration apply failure.
CSCut47025	BGP-FS of VRF configure command is changed in show running.
CSCut48038	The cdma gps nmea command is not getting configured.
CSCut53686	When a 3G call is dropped, it does not re-establish.
CSCut66144	VXML GW fails to handoff call to VXML application on second VRU leg.
CSCut67877	IOS crashes when changing tunnel destination on a tunnel with QoS.

CSCut68920	Polycom IP Phone not working with new IOS version on Cisco 1941.
CSCut78892	Router crashes while disabling the DMVPN tunnel.
CSCut87425	CPU hog in EEM TCL Proc after TCL script termination with long runtime.
CSCut92745	Crash while placing MLPP calls.
CSCut98205	Cisco 5760 lost configuration after upgrade.
CSCut99412	Router crashing while configuring security policies via CCP Express.
CSCut99533	Router Crash @ pa_fo_dead, pa_dp_producer_pkt.
CSCuu00059	IOS zone-based firewall not clearing half-open MSRPC sessions.
CSCuu21802	Cores and TBs noted on Cisco IOS XE Release 3.16S running live traffic.
CSCuu24780	Flash corruption when router crashes on bootup.
CSCuu36041	VPLS BGP AD resignal time takes ~20-40s for multi-homing scenario.
CSCuu84323	VZW & Sprint can attach but cannot ping in 2G/3G mode.

C H A P T E R 7

Bugs for Cisco IOS Release 15.5(2)T

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.
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.

Filter	Description
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 15.5(2)T2

Table 22: Open Bugs—Cisco IOS Release 15.5(2)T2

Identifier	Description
CSCuv01607	Invalid spi, Attempt to use contiguous buffer as scattered, Full queue
CSCuw02624	IOS:Cannot periodically establish SSL connection
CSCuv22078	C881W: Inconsistent behaviour with Guest PC plugged behind Avaya Phone
CSCuv84210	DSMP crash with corrupted dsp_intf value
CSCuu46659	Display warning before saving config that can trigger routing flap
CSCuv86229	Interrupt stack overrun and crash due to recursive tunnel lookup, Part 2
CSCuw02226	C897VA %LINEPROTO-5-UPDOWN output soon even if carrier-delay configured
CSCuw40391	IPS: Crash@ips_dp_delete_half_open_session Part II
CSCuu95635	1941 15.4(2)T Crash System returned to ROM by bus error at PC 0x26183C40
CSCuu82082	Memory corruption crash due to cont_scan_display_session
CSCuw15904	High CPU due to IP Input in specific tunnel traffic
CSCuw33384	PBR not working when the recursive next-hop is not in routing table
CSCuw28957	DMVPN Hub has no Crypto Sockets in Listen state
CSCuv54418	SGT packets dropped when CTS enabled on dot1q sub-interface w bridging
CSCut86321	Tx hang on 2951`s GigabitEthernet IF
CSCuv07808	BSTUN async-generic combining input frames
CSCuw14948	HSRP vip ping failure after power off one side Router with SM module
CSCut45177	CWS HTTPs traffic fails to load on ISR configured with NVI
CSCuw20313	Router crash configuring IPv6 over IPv4 tunnel on NEMO tunnel template
CSCuw22945	Crash in ipnat_generic_fixup token_array
CSCuu21270	Traceroute freezes the router with ip nat enable configured

Identifier	Description
CSCuw29178	%SYS-3-BADFREEMAGIC: Corrupt free block when running 'ip nbar' commands
CSCuu98027	onepk memory corrupt crash when repeating sh policy-map
CSCuv46225	Dead memory leak SCCP TLS CLIENT
CSCuw41120	IOS PKI: GetCertInitial SCEP sequence is not encoded as unsigned integer
CSCuv11944	Memory corruption after CAPTURE_FULL error
CSCuu40244	Memory leak in c3600_cpu_input_pak_coalesce with webvpn enabled
CSCuw14345	High CPU due to 'IP Connected Rou' process and Low Memory .
CSCuv41355	Unable to telnet -- No wild listener: port 23
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
CSCuv89892	MC7350 modem remains on 'LOW POWER MODE'

Open Bugs—Cisco IOS Release 15.5(2)T1

Table 23: Open Bugs—Cisco IOS Release 15.5(2)T1

Identifier	Description
CSCuj86253	2900 w/ Multiple EHWIC-4ESG-P's and L2TPv3 via SVI's drops 50% multicast.
CSCuq70725	LDAP Address error at ldap_clear_transaction_all.
CSCus45019	Media loop detection failure.
CSCus90133	IOS crashed after issuing the "test cellular 0 modem-power-cycle" command.
CSCut16884	After reloading the router, the attach and data profile changes to profile 1.
CSCut42645	Input queue wedged on a SSLVPN enabled router.
CSCut58291	Crash in L4F (tup_lookup_func) with CWS configured on the router.
CSCut67841	Output drop on cellular interface during Wifi + LTE performance testing.
CSCuu20332	FW switching with longest folder name or blank name.
CSCuu26303	Router crash triggered by service policy and IPv6 traffic.
CSCuu40244	Memory leak in c3600_cpu_input_pak_coalesce with webvpn enabled.
CSCuu66041	Reload is required after FW upgrade; otherwise FW corrupts with add FW upgrade.

Identifier	Description
CSCuu68675	C819GW-LTE-GA-EK9 - After FW upgrade, modem goes down and does not come up.
CSCuu71048	Modem's ESN value replaced by Vzw SIM's ESN after FW upgrade.
CSCuu71299	MPLS LDP flap with %TCP-6-BADAUTH: No MD5 digest.
CSCuu79690	FW upgrade does not work after Dm log is off (disabled).
CSCuu81737	Router crashes when using Crypto.
CSCuu84021	FW upgrade to unsupported FW corrupts the original FW.
CSCuu84323	VZW & Sprint can attach but cannot ping in 2G/3G mode.
CSCuv08073	ECIO display value is wrong in CDMA mode.

Open Bugs—Cisco IOS Release 15.5(2)T

Table 24: Open Bugs—Cisco IOS Release 15.5(2)T

Identifier	Description
CSCts39290	Underruns incrementing for active interfaces of NPE-G1.
CSCtz25787	Support for variable length check pointing inVoIP-ha.
CSCud65543	Crash in firewall code processing.
CSCug89173	Fragmented GetVPN traffic fails after few seconds with ISM-VPN.
CSCuh29880	CPUHOG watchdog crash shdsl_efm background.
CSCuh36583	Cisco ISRG2 Routers - DSP crash due to backplane switch lockup during T1 errors.
CSCuh53075	Cisco C3900 Series Routers ISM crashed when "clear crypto session" with 3000 DMVPN tunnels.
CSCuj86253	Cisco 2900 Series Routers with multiple EHWIC-4ESG-P's and L2TPv3 via SVI's drop 50% multicast.
CSCuj95960	ISM crash due to reassembly double free.
CSCup04595	C isco ASR 1000 Series Routers crash at nhrp rn_delete.
CSCuq70725	LDAP address error at ldap_clear_transaction_all.
CSCur01171	Memory leak in MRCP_CLIENT in add_to_hoststatus_table.
CSCur73777	Vaccess cloning fails if Vtemplate is IPv6 enabled + VRF pushed by AAA.
CSCur77354	Router reloads due to dhcpc_addr_purge accessing a previously freed IPL.

Identifier	Description
CSCur83620	DHCP-configured interface transitions to static after interface flap.
CSCus05038	Socket_set_option for SNDTMEO does not set the time properly.
CSCus08337	Memory leak in IPSEC key engine process with VAM2+.
CSCus20997	Cisco ASR 1000 Series Routers: BGP Notification of admin shutdown triggers graceful restart.
CSCus26844	Interrupt stack overrun and crash caused by MPLS recursive tunnel lookup.
CSCus53310	DHCP relay for IP phones not forwarded out.
CSCus56080	Memory leak in using ISM-VPN module at pse2_ge_rx_interrupt.
CSCus56128	Buffer leak in 'Huge' pool.
CSCus57502	HA support for OOB DTMF Interworking.
CSCus72019	DHCP server crashes when DHCP client interface transitions between shut and no shut.
CSCus72752	Crash on sslvpn_process.
CSCus75068	Anti-replay scenario for GetVPN fails.
CSCus77875	List headers leak verified certificate chain held CCSIP_TLS_SOCKET & Chunk Manager.
CSCus79860	Crash in IOS-FW code with Skinny and H.323 sessions.
CSCus79972	Crash on "tunnel protection ipsec profile profile-name."
CSCus82084	Reventon cards not enabled even though the CLI output shows it is enabled.
CSCus82816	Crash in tup_lookup_func in Cisco Cloud Web Security feature.
CSCus84527	Reachability issues due to Cisco Express Forwarding, when dialer interface is involved in DMVPN.
CSCus85689	Crashes in policy routing, under "OER Border Router" process.
CSCus89274	Crash with NAT/reflective ACL and TCP session going through that box.
CSCus93777	Cisco IOS crash when making configuration changes while show output is waiting.
CSCus95177	MAINBOARD-2-INITFAIL on multiple Cisco 2911 Routers.
CSCus95226	Compact Flash corruption due to call-home directory being created.
CSCut02658	Crash @ list_insert_default.
CSCut05631	Router reloads while performing NAT sanity test.
CSCut13883	Ping is not going through after applying Crypto.
CSCut23908	HWIC loses connectivity to IP's outside subnet when 802.1x process done.

Resolved Bugs—Cisco IOS Release 15.5(2)T4

Table 25: Resolved Bugs—Cisco IOS Release 15.5(2)T4

Caveat ID Number	Description
CSCup90532	Cisco IOS and IOS XE Software DNS Forwarder Denial of Service Vulnerability
CSCuz81292	IPv6 neighbor discovery packet processing behavior
CSCva75774	CWS/ISR 1900 15.5(3)M1 whitelist download enable stops updating
CSCux97540	Cisco IOS and IOS-XE IKEv2 DoS Vulnerability
CSCvb29204	BenignCertain on IOS and IOS-XE
CSCuy47382	Cisco IOS and IOS XE Software IKEv1 1 Fragmentation Denial of Service Vulnerability
CSCuy87667	Cisco IOS and IOS XE Software AAA Login Denial of Service Vulnerability

Resolved Bugs—Cisco IOS Release 15.5(2)T3

Table 26: Resolved Bugs—Cisco IOS Release 15.5(2)T3

Identifier	Description
CSCux67975	AIGP for next-hop BGP route is not being used or its not deterministic
CSCus94258	AIGP metric not used when NH has AIGP attribute
CSCux55351	ASR1K router crashed due to running BGP with AIGP
CSCux06508	ASR1K: after unconfig MPLS VPN, can NOT config OTV. MPLS still there.
CSCux70093	BGP RR does not advertise vpnv6 prefixes even all RT filters are learnt
CSCso40779	BGP/max-prefix - incorrect warning max-prefix message
CSCux97040	BGP: default RT filter flag not reset when <clear ip bgp > executed
CSCuv36790	clear bgp command don't consider AFIs when used with update-group option
CSCux96029	GR Non-restarting peer does not advertise VPN routes default RT filter
CSCuw11898	c5930 : Crash leaded by BADSHARE messages when shaping traffic
CSCut42645	input queue wedged on a SSLVPN enabled router
CSCuv05226	ASR920 : VRF is not deleted after replacing default config

Identifier	Description
CSCux39969	Redistribution 0.0.0.0/x to RIP doesn't work after clear ip route *
CSCuq13031	[Beni]IOSD crash report@rip_add_idb in VSS setup on latest Beni [61.E]
CSCuc66534	IPSec MIB queries leading to memory leak; Wrong SNMP values reported
CSCur18715	CUCM native queue call disconnect due to Application AckTimer expire
CSCuw74752	cpu hog and crash in isis_ip_xlfa_pq_ipaddr_usable
CSCuv26774	ISIS holds routes even after removing interface with config replace
CSCux59649	ISIS lsp-mtu size 128 removes TILFA and rLFA tunnels
CSCuv81298	LFA SPF causes cpuhog and crash in scaled test with 400 nodes
CSCuw47382	OTV:Local otv vlan inactive after ED reload
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
CSCuy12271	Wrong LSP Size Calculation Following MAC Move with OTV
CSCuu05855	Input rate is reduced after configure un-configure test
CSCux65169	Log messages: Managed chunk malloc operation on Null Chunk
CSCuw92679	IOS-XE crash at nhrp_iprib_lost_route when running 'debug nhrp routing'
CSCuu55332	OSPF NSR: Standby Crash on no shut of interface with ip address dhcp
CSCuu68144	Crypto CA process Traceback after PnP preprovisioned rule match
CSCuv42560	Trustpool bundle fails to deploy on devices with smaller nvram space
CSCuv62299	CUBE crashed @ ccTDPvtGetTDObjectFromProfileTab AFW Process
CSCuw47130	STCAPP commands gets removed after reloading 43XX/44XX routers
CSCuv80214	Router crash on removing dial peer
CSCux17945	Hootie call is unable to mix multicast streams
CSCuw54917	LMR port stuck in S_TRUNK_PEND after T1/E1 reports LOF
CSCux22874	On demand PCM captures needs to be available on ISR4k routers
CSCux20973	OPTIONS keepalives are sent to outbound-proxy when disabled at dial-peer
CSCuv93812	RTP ports hung on Router.
CSCuu70794	'cellular lte profile create' does not work on Tcl configuration mode

Resolved Bugs—Cisco IOS Release 15.5(2)T2

Table 27: Resolved Bugs—Cisco IOS Release 15.5(2)T2

Identifier	Description
CSCuu18788	DATACORRUPTION-1-DATAINCONSISTENCY when polling ceExtSysBootImageList
CSCus82903	BGP - %IPV6_ADDRESS-3-NULLIDB: Uninitialized interface pointer
CSCuv00910	bgp afi1/safi1 and afi1/saf4 only peers in the same update-group
CSCuu05543	BGP fix debug: tbl VPNv4 Unicast:base Defer topo reset till scanning
CSCuu29471	BGP Scanner Traceback at be_bgp_imp_shut
CSCur43720	cost community issue
CSCuv31135	Disable connected-check in one side only makes route as unreachable
CSCuu85298	FIB/LFIB inconcistency after BGP flap
CSCuu28444	import of global route to vrf fail on clearing bgp because quota reached
CSCum41167	Importing multipath routes changes next-hop to 0.0.0.0 and traffic fails
CSCuv07111	IOS and IOS-XE devices changing the next-hop on BGP route with own IP
CSCut27341	MPLS VPN - CPE RT influencing fails when SOO present as a path attribute
CSCuu03165	Not able to remove deny statement in comm-list
CSCuu17629	Rollback is aborting due to 'ip extcommunity-list 2'
CSCut70603	RTFilter shows 'Not advertised to any peer' even though its advertised
CSCuu30801	VPN label is not present in VRF routing table
CSCuv08073	ECIO display value is wrong in CDMA mode
CSCut16884	Reloading the router,the attach and data profile change to profile 1
CSCuv01156	No command on ESR to set password min-length
CSCuu35625	Crash leaded by BADSHARE messages when shaping traffic
CSCuv74915	Router crash @ cce_dp_udb_vm_preclassify_process
CSCut21091	IPSec HMAC errors seen when using DH group 21 for PFS
CSCuv01746	DLEP VRF aware support request
CSCuu27920	test command to delete dsmp streams
CSCus57583	ASR 1K BGP Process Crash Due to EIGRP Route Redistribution

Identifier	Description
CSCus25205	Traceback@eigrp_process_dying during unconfiguration
CSCuq34312	Junk characters in call-home message
CSCur45606	logging discriminator doesn't work
CSCuu68439	Crash after no route-target import command
CSCut28445	CSCur47160 broke load balancing
CSCuu26303	Router crash triggered by service policy and ipv6 traffic
CSCuv43978	IPv6 GRE over 6PE does not work properly
CSCuv80943	MCP_DEV:Packet drops@Ipv6NoRoute with ipv6gre configs
CSCuu90168	CUBE crashed due to memory hoding @ TCP_SOCKET
CSCuu00050	CUBE with SRTP fallback is dropping SRTP RTP/SAVP from the 200 OK SDP
CSCuu89938	Hung call seen on CUBE when TCP timeout trigger
CSCuu44302	Memory leak under process RECMSPAPP with PC voip_rtp_create_fork_object
CSCuu29667	ASR1K crash when snmp setting cipSecTunnelEntry
CSCut95978	CBAC Pinholes in crypto-map access-group
CSCus92857	Crypto Stateless redundancy causing 'IPSEC install failed' after preempt
CSCuu54392	Different Tunnel Protection with shared profile cannot be used
CSCus96078	duplicated ipsec sa does not fully delete isakmp sa
CSCut87217	GETVPN - ASR1K GM deny policy fails when the policy is updated by the KS
CSCus94957	gobal flow MIB table on CSR is not updated with counters
CSCus68467	MDC: DMVPN Tunnel Path-mtu-discovery not working with Jumbo MTU size
CSCuq91734	NHRP Packets are dropped after EzVPN decryption
CSCut32594	OSPFv3 encryption - Adjacency not up after reload
CSCus85701	AQoS peer mismatch with NAT
CSCus87215	EzVPN Proxy DNS not installed on client post 12.4
CSCuu93699	Crash on IKEv2 cluster hub when anyconnect client tries reconnect
CSCut19255	IKEV2 should send IKE identity in AAA access request
CSCut75076	IOS Anyconnect-EAP accounting IKE-ID used as username
CSCuu67867	IOS Anyconnect-EAP must send calling-station-id in radius access request

Identifier	Description
CSCuu08603	IOS Anyconnect-EAP: Multiple connection with same IKE-ID fails
CSCtf30773	Bogus ip addresses shown in 'SA has outstanding requests' debug message
CSCut32445	Crash - IPSec/ISAKMP Timer driven crash.
CSCuu24977	Packet accouting of IKEv2 stops when IKEv1 client is provisioned
CSCut93050	IOS IPsec traffic statistics reported incorrectly by SNMP
CSCus30128	RRI dynamic L2L after client change ip address Ipsec rekey lost routes
CSCuv94992	Backing out CSCur27771 from v155_2_t_throttle
CSCus97802	CISCO3945-HSEC+/K9 Crash constantly with crypto engine
CSCur27771	FlexVPN tunnel mode gre ipv6 doesn't work
CSCuv26780	Memory leak when qos pre-classify is configured with Crypto
CSCus96715	PROGRESS after ALERTING not allowed user side (U7) for Primary-net5
CSCut88270	Duplicate hsrp vmac entries after OTV AEDs fail over
CSCut30167	ISIS may crash when reaching LSPFULL condition with IPv6 routes
CSCuu21448	ISIS Metric with Multiple instances using ciiCircLevelMetric OID
CSCuv16769	ISIS: Old path not deleted in Global RIB when new path is filtered out
CSCuu77927	OTV stuck in inactive status when failover due to missing isis vlan tlv
CSCuu25273	007: Aggregate rate is not showing correctly in Bonding mode
CSCuu77844	3945E with EHWIC-1GE-SFP-CU/ GLC-LH-SMD= not suppport DOM
CSCuu81704	Crash due to Stack for process UCSE Monitor running low
CSCuv39352	WCCP Tracebacks running 15.5(2)T1
CSCuu12600	SR is not working fine in mk2fc2-sup720 device
CSCus61461	Terminator crashed with Extranet configuation
CSCus91917	Auto-RP config is removed from running config when address is configured
CSCur63259	PIM: *,G assert, device using negative assert metric
CSCuu90695	DM/SM boundary (S,G) are not repopulated: Multicast Missing Registration
CSCur01171	Memory leak in MRCP_CLIENT in add_to_hoststatus_table
CSCuu60385	NBAR Crashed @ pal_ios_global_unlock_interrupts
CSCut85551	Crash with DMVPN NHS using FQDN

Identifier	Description
CSCur06845	NHRP control packets should be forwarded preferably on the same cloud
CSCut77619	APRIL 2015 NTPd Vulnerabilities
CSCuv23475	CPUHOG and crash on 'no network 0.0.0.0' with vnet configuration on intf
CSCus68229	Memory leak in OSPFv3R
CSCuv55915	Cisco2911 can't enable pfr SNMP Trap
CSCut96721	Crash on pfr master router at oer_mc_apc_changed_prefix
CSCuu08872	Crash on pfr master router at pfr_exp_send_tc_config_internal
CSCud22770	Memory Leak @OER SAA MC Prob
CSCuv22992	PFR router crashes due to watchdog when displaying config
CSCus34995	PFR- show pfr master traffic performance displaying incorrect stats
CSCuu98524	PFR/OER related IOS crash
CSCuu97977	Pfrv2 load-balance not working with passive mode.
CSCuu41205	crypto pki crl request should have better input sanity
CSCuu95125	GetVPN KS lost certificate during rollover w/o auto-enroll configured
CSCuu26723	IOS PKI chain-validation may get anchored to Root TP causing IKE failure
CSCuu46926	IOS PKI default auto-rollover 30 is not displayed in running-config
CSCuu18348	IOS PKI HA fails to initialize on standby router after reload or upgrade
CSCuu81737	Router crashes when using crypto
CSCur88124	default throttling require other defaults in some cases
CSCuv90204	SMEF keywords' change
CSCuu06215	AAA sends garbage value to SSH and causes RP crash
CSCuu78845	IOS 15.5 SSH auth does not progress to next method
CSCur94774	Problem with 'ip ssh source-interface' command
CSCuu82607	Evaluation of all for OpenSSL June 2015
CSCus88868	IOS openssl leak observed with SSL Anyconnect VPN
CSCuq24202	Cisco IOS TCL script interpreter privilege escalation vulnerability
CSCur76305	Memory leak in ASP proces Catalyst 2960s
CSCus58908	Problem with 'ip tftp source-interface' command on reload/ISSU

Identifier	Description
CSCuv20443	IOSv: high CPU and long delay for show command output
CSCur24408	watchdog crash invoked after a CPU-HOG from 'CC-API_VCM' process
CSCur67691	Continous reload issues seen on ASR1K B2B Redundancy
CSCuu60542	Route crashed at KA in function flex_dsprm_send_vtsp_alarm_indication
CSCuu33464	Router crash due to a NULL access at line 3432 in dsmapi.c
CSCuu83604	[XE317] observing MallocLite chunk leaks with ds0-group under T1/E1
CSCut59448	Null0 interface disappear and Routes pointing to Null0 do not work
CSCuv34164	Crash after SCCP session tear down via no sccp command
CSCuv51463	Increase E1-R2 Stop Tone Timer
CSCuv01915	R2 MFC signal level is lower than regulatory limit
CSCuu44557	VG310 missing caller id and strange ringtone issue
CSCuw26259	SIP SUBSCRIBE msg is responding back with 503 Service Unavailable
CSCut64832	standby-sup cannot bootup when 8k vrf configured
CSCuv23813	Crash at be_cellular_get_mgmt_instance when no shut 1T

Resolved Bugs—Cisco IOS Release 15.5(2)T1

Table 28: Resolved Bugs—Cisco IOS Release 15.5(2)T1

Identifier	Description
CSCun29420	Crash observed with active IP SLA probes.
CSCun57148	High CPU in Flexible NetFlow cache Ager P.
CSCun68322	Support BGP graceful restart for VPN AF in platform without MPLS.
CSCup49008	CENT: Chunk memory block corrupt when remove cent VRF instances.
CSCup94040	Hub MC IOSd memory exhausted and crash under stress like blackout failure.
CSCuq68961	Update IC2M test harness to support AES KW algorithm validation testing.
CSCuq91734	NHRP Packets are dropped after EzVPN decryption.
CSCur15263	vIOS crash in IPsec because wrong parameters passed to event trace write.
CSCur70959	Memory leak @ sipContentObjPvtSetBody.

Identifier	Description
CSCur83129	Error message: SOC4E COMMAND FAIL seen in live network.
CSCur88684	C897VAB - Ethernet0 - Output-queue stuck in full state (40/40).
CSCur90546	qos_mon_periodic processes getting spawned without any configuration.
CSCur96943	CCSIP_SPI_CONTROL leak in sippmh_parse_record_route.
CSCus01735	cbQosTSCfgRate64 is not supported on ASR1000 Series Routers.
CSCus03834	Tracebacks in Crypto CA process even without PKI configurations.
CSCus05038	Revocation-check ocsp none does not timeout fast for unreachable server.
CSCus11365	L2VPN pseudowire backup state DN after SUP HA.
CSCus14484	Crash on exporting map from VRF to global through BGP.
CSCus20997	Cisco ASR1000: BGP notification of admin shutdown triggers graceful restart.
CSCuq25323	DLSW peers fail to connect when other DLSw peer sends FIN instead of RST.
CSCus26146	VRF LISP routes not exported to global table with valid next hop.
CSCus38037	Crash with show voice class ctl-file command.
CSCus43594	RP crash when cleanup VPLS scale configuration.
CSCus65095	SSTE: QoS pre-classify was broken.
CSCus70527	MDC: Template and IPC issue leading to hung memory allocation.
CSCus72257	50% ping failure with IPv6 dual stack and dialer configured.
CSCus73553	Memory corruption crash in PKI certificate processing.
CSCus74192	Link down event does not flush the routes correctly with IS-IS.
CSCus77875	List headers leak verified cert chain Held CCSIP_TLS_SOCKET & Chunk Mgr.
CSCus82775	RSP2: MSPW sessions down on S-PE after SSO.
CSCus84871	MDC: Branch MC/BR router crashed@cent_rpi_process_parent_down.
CSCus89274	Crash with NAT/reflective ACLand TCP session going through that box.
CSCus89791	g722-64 codec crash during dial tone with country code.
CSCus92291	AN: Router (Registrar) crashes while bootstrapping.
CSCus95226	Compact flash corruption due to call-home directory being created.
CSCut03793	IGMP Snooping on VLAN remains in disabled state even after enabling.
CSCut06046	Cisco XE Release 3.15S: Incorrect QoS service-group details and stats.

Identifier	Description
CSCut08626	DSMP crash at DSP packet buffer allocation.
CSCut11154	Traffic drop of 4 seconds seen after 2nd SSO with LFA FRR configurations.
CSCut13375	Ping across AN created IPsec tunnels is not working.
CSCut13883	Ping is not going through after applying Crypto.
CSCut14502	Address pool leak upon Anyconnect reconnect and subsequent disconnect.
CSCut17865	ASR1000:13RU IOSd crash @PnP Agent Discovery after router reload.
CSCut18365	Tracebacks found @ moh_multicast_recv_input.
CSCut24465	Static VFI went down after PTF reset.
CSCut27260	Not able to boot with 15.5(2.3)T image in C867VAE-W-A-K9 platform.
CSCut30579	Dynamic PBR policy inconsistent & never update after path failover.
CSCut31519	MDC: A crash @CENT EXPORTER THREAD when doing configure replace.
CSCut45089	CWMP configuration apply failure.
CSCut46130	MARCH 2015 OpenSSL vulnerabilities.
CSCut46705	Wrong bandwidth distribution in SIP 200 & 400 causes queue limit of 2.
CSCut50109	Cisco CSR 1Kv radius IPsec accounting - packet count gets doubled.
CSCut54215	Cisco CBR8: Keys not saved after switchover.
CSCut55649	Bender c2951 router crashes with Cisco IOS Release 15.5(2.6)T image.
CSCut57290	Egress LER TTL propagation misbehavior in per-ce label allocation mode.
CSCut58291	Crash in L4F (tup_lookup_func) with Cloud Web Security configured on the router.
CSCut66144	VXML GW fails to hand off call to VXML Application on second VRU leg.
CSCut67718	Media-mon crash at mmon_set_start_timer().
CSCut78892	Router crash while unconfiguring DMVPN tunnel.
CSCut87715	HMCBR site-prefix DB has missing prefixes for discovered sites.
CSCut92380	Cisco IOS XE 3.13S: Duplicate Internet-bound TC learned with enterprise prefix.
CSCut92745	Crash while placing MLPP calls.
CSCut97997	Cisco ISR 4K Crashes due to CCSIP_TLS_SOCKET process.
CSCuu03778	ISSU: Cisco IOS XE Release 3.13S-to-Cisco IOS XE Release 3.14S Traceback@fib_subtree_context_lc_unpack_xdr after RV.

Identifier	Description
CSCuu04027	MDC: only 404 branches can be discovered by hub master.
CSCuu05323	2911 auto-tunnel GRE key missing cause 100% packet drop.
CSCuu21802	Cores and TBs noted on Cisco IOS XE Release 3.16S running live traffic.
CSCuu24780	Flash Corruption when router crashes on bootup.
CSCuu55656	MNH: MC RP crashed when remove domain configuration before SAF peering down.
CSCuv18154	Sprint 1xRTT can attach but PING does not go through.

Resolved Bugs—Cisco IOS Release 15.5(2)T

Table 29: Resolved Bugs—Cisco IOS Release 15.5(2)T

Identifier	Description
CSCud34634	Dynamic MAC entries blocked when clearing MAC with STICKY MAC address.
CSCug18580	Cisco ASR 1000 Series Routers crash: UNIX-EXT-SIGNAL SEGFAULT, Process = AAA ACCT Proc.
CSCuh92882	Cisco IOS XE Release 3.11S: Seginfo->l2hw_cond_debug is set to 1 when there is no condition.
CSCui65914	Minor/major temp. alarms in syslog along with data corruption logs.
CSCuj04914	Memory hold in "SSLVPN_PROCESS" with SSL VPN enabled.
CSCuj10443	Standby sw crash@crypto_engine/sw/src/keylib/lib_key_storage.c:646.
CSCuj13127	SSTE: DNS IPv6 traffic fails with IKEv2 and the zone-based firewall configured.
CSCuj50209	Memory leak @ voip_rtp_recv_fs_input.
CSCuj60066	Cisco IOS XE Release 3.6 E and IOS 15.5(2)E: WLC Controller 5700 crashes in "EAP process framework" when we start roaming
CSCul52326	L2TP/IPsec with NAT-T to Cisco ISR G2 routers with ISM-VPN module fails.
CSCum89348	On Cisco ISR Routers with ISM-enabled, SSH gets disabled upon reload.
CSCum90471	Cisco ASR 1000 Series Routers: Ping failure between CE1 & CE3 after switchover.
CSCum94541	Split source-interface missing in PKI enrollment profile.
CSCum95330	Crash at ether_efp_get_swidb with VPLS config.
CSCun13772	NHRP: CPUHOGs seen when many child entries expire simultaneously.

Identifier	Description
CSCun58751	Authenticator receiving error messages from AAA server for CoA request.
CSCun68322	Support BGP GR for VPN AF in platform without MPLS.
CSCun72450	IPv6 GETVPN traffic dropped after un-configure then reconfigure VRF.
CSCun87941	PPP link interfaces causes SUP to crash.
CSCuo29221	Cloud Web Security: Content-scan proc utilizing 75% CPU when tower is any HTTP server.
CSCuo31164	Match prefix is removed from SNMPv3 configuration after host command.
CSCuo36917	Cisco IOS XE Release 3.12S DPSS: CFT returns out of memory error under load.
CSCuo52176	EEM_ED_SYSMGR process crashes on Typhoon card.
CSCuo67247	High CPU due to NHRP process on Cisco ASR Routers in DMVPN ph3 after upgrading IOS-XE.
CSCuo81912	SSTE: Unable to remove performance-monitor once the interface is deleted.
CSCuo86388	NXOS-VPC-VPLS Scale-after core LC OIR, subset of PW remain in down state.
CSCup05490	ST-XE313: Crash with "debug voip fpi error" under load.
CSCup08695	DPSS punted packets are not all re-injected for scale/performance.
CSCup26658	Unexpected process restart after configuring no spanning tree and default interface commands.
CSCup32531	Both ESPs crash at AOM parent when flapping 6K FlexVPN sessions.
CSCup47628	SS, TS:NBAR: For app-based policy, performance monitor does not learn the flows.
CSCup48874	IPv6 neighbor link-local address not learnt after RSP failover.
CSCup75310	Cisco IOS XE Release 3.13S: CENT color pending on datapath for DMVPN tunnels after recreate.
CSCup80756	SNMP Engine Crashes in Cisco IOS XE Release, Segfault when Processing rttMonStats MIB.
CSCup82109	CENT: hub MC CENT_COMMUNICATION_THREAD crash@cent_get_instance_by_id.
CSCup86849	Authenticating interface mac address entry missing from mac-address-table.
CSCup94637	Cisco ISR G2 Routers: CoPP not working with GETVPN IPv6 DP.
CSCup95191	ENH: IKEV2 reconnect should use original EAP id for acct.
CSCup99634	IPV6 DHCP database not working in Cisco IOS Releases 15.5(1)T and XE 3.13S.
CSCuq09320	Cisco ASR 1002 Routers crashed with LAN BFD and HSRP with IPv4 and IPv6.
CSCuq13985	BGP router process crashes due to received BGP withdraw.

Identifier	Description
CSCuq15567	Crash with %SYS-3-OVERRUN with crypto_ipsec_clear_peer_sas.
CSCuq15789	CLI "License save bootflash:" etc options missing on MCP_dev.
CSCuq16071	PSS sanity: applying shaping policy to interface, app disconnects.
CSCuq17177	Syslog discriminator blocks call-home.
CSCuq17256	GRE tunnel down while using IPSec.
CSCuq17550	Cisco ISR Generation 2 Routers: GETVPN-IPv6 Egress IPv6 Interface ACL checked before encryption.
CSCuq35209	BGP advertising incorrect link local IPv6 address.
CSCuq36627	WAAS Express: Failed to create SSL session (No available resources.).
CSCuq38392	RESTAPI ASR: GET UDI does not match show license udi.
CSCuq41114	ENH: SSH configuration option to restrict cipher public key and HMAC.
CSCuq41982	Crash at login %SYS-6-STACKLOW: Stack for process LOCAL AAA running low.
CSCuq45187	L2VPN: Local access circuit DOWN after RELOAD.
CSCuq45483	Few VRF routes not programmed in DFCs in a SUP2T VSS w/C6800-32P10G-XL.
CSCuq46973	CENT MMA not working after attaching performance-monitor on WAN interface on Cisco ISRs.
CSCuq51439	Cisco ASR 903 Series Routers: ISIS LSP generation delayed after receiving BFD down event.
CSCuq52516	Cisco Catalyst 6000 Series: 6800IA console behavior fix.
CSCuq53017	RSP1/RSP2: crash on bootup with invalid core file: 21st mcp_dev.
CSCuq56513	Prefix delegation failing on dialer.
CSCuq62392	CENT MMA monitor wrong hierarchy displayed after attaching performance monitor.
CSCuq66242	The zone-based firewall with ISM and DMVPN requires explicit permit for GRE traffic.
CSCuq70163	RESTAPI: POST /api/v1/acl/{acl-id}/interfaces does not show in configuration.
CSCuq72520	SIP, SCCP Call Legs SYS-3-INVMEMINT, SYS-2-MALLOCFAIL interrupt level.
CSCuq74176	PKI IOS removed valid CA certificate before expiry date.
CSCuq74492	IOS/IOSd multiple vulnerabilities in OpenSSL - August 2014.
CSCuq75576	Input queue wedged on outside interface of standby NAT-ha router.
CSCuq77051	Out of IDs when configuring xconnect.

Identifier	Description
CSCuq78983	RIPv2 key-chain CLI disappears when doing configuration replacement.
CSCuq83441	BGP L2VPN uses default static next-hop instead of outgoing interface address.
CSCuq85667	Crash@mcast_rw_link_dequeue on config replace in MCAST THS.
CSCuq86382	FLEXVPN IKEv2 auto reconnect | virtual-access | VRF lost | anyconnect.
CSCuq86726	CPU shoots to 100% with NAT on Cisco 3945e Router and does not recover.
CSCuq88419	GETVPN Suite-B: Adding permit to KS ACL, wrong policy on GM & Sec KS.
CSCuq91400	UTM Unable to access UTM Page from LAN with NTLM authentication.
CSCuq94226	Cell-hwic command not found in 4G platforms.
CSCuq94877	IKEV2 Anyconnect session reconnect fails on multiple reconnects.
CSCuq97336	Crash on Crypto PKI enrollment.
CSCuq98231	CEF Punt Flag is missing on MLPPP interface once VA interface unbundled.
CSCuq98449	PFRv3 CPUHOG in "IP RIB Update" after link flap.
CSCuq99173	Conditions experienced parsing H.225 packet may cause crash.
CSCuq99797	BGP route-target not advertised when rtfilter address family is in use.
CSCuq99888	Cisco 2900 Routers/ISM-VPN: IPv6 egress ACL intermittently Mis-classifies ESP packets.
CSCur07269	QoS causes alignment errors on MLPPP E1 interfaces.
CSCur07571	Processor memory leak with MRCP_Client at cc_api_get_call_active_entry.
CSCur08096	Cisco IOS Release 15.5(1)T: Cisco 2911 Router crashed@perf_mon_async_get_next_mon_ctx with invalid access.
CSCur09465	Router crash with chunk corruption.
CSCur10058	IOS PKI: CRL parsing may fail if HTTP Content-Length is not specified.
CSCur10311	MAG does not accept PBA without GRE key during de-registration.
CSCur10531	Shaper not working for priority queue (LLQ).
CSCur10697	No records with WAASX enabled on DMVN CRYPTO tunnel.
CSCur10866	VtyProxy is not defined.
CSCur13285	CUBE: Router crash seen at sip_mpa_free_event_info function.
CSCur13495	Service data of a service change is not updated by SAF forwarder.
CSCur14014	DLSW: buffer not zeroed before use.

Identifier	Description
CSCur14783	PnP: ZTD in Cisco ISR Routers blocked due to configuration wizard.
CSCur15400	CME crash when Motorola SIP soft client initiates call from shared line.
CSCur15562	Hardware entropy collection leaks crypto packets.
CSCur16336	Cisco 3945e Router crashes immediately after running the traffic.
CSCur16675	VXML gateway Crash @ms_handle_stream_timer.
CSCur17744	High CPU when configuring Flexible Netflow (due to CFT Timer Process).
CSCur18226	Virtual-service exception on request timeout.
CSCur19344	Cannot start timer on "CCSIP_SPI_CONTROL" process.
CSCur21757	Memory leak *Dead* = AFW_application_process and QSIG-rose.
CSCur23544	Enable-timeout less than 6 seconds disappears after reload.
CSCur23619	IKEv2 reconnect radius accounting stop should mention terminate cause.
CSCur24102	SSTE: Memory leak @ license_modify_priority_by_line_local.
CSCur24686	891F: Forwarding delay on BRI output queue.
CSCur25315	Router crash: QoS group of packet is greater than 1023.
CSCur26541	Router crashes upon receiving a RADIUS Access-Accept message.
CSCur28336	Memory leak and possible crash when using a logging discriminator.
CSCur29261	Memory corruption in retrans TCP sanity check causes Cisco ISR Routers to crash.
CSCur29582	IPSEC-VPN: removal of "crypto-map" kills BFD session forever.
CSCur29861	Traceback seen on Cisco c2900 platform for ike_keepalives.
CSCur33622	Spurious access found in show alignment.
CSCur36860	Cisco IOS Releases XE3.14S and 15.5(1)T: GETVPN KS Crash during rekey for Multicast.
CSCur40808	ISM-VPN: QoS preclassify not preserving the QoS markings.
CSCur42966	HW offload cfm up mep will timeout.
CSCur45249	Linktrace fails with two remote MEP sessions.
CSCur51387	NG3K stack: standby device gets reloaded due to reason configuration mismatch.
CSCur54389	SRTP-RTP Call with HOLD/RESUME disconnected.
CSCur55365	50% ping failure with IPv6 dual stack and dialer configured.
CSCur57035	Cisco ASR 1000 Series Routers crash on __be_bfd_fib_nh_change_cb.

Identifier	Description
CSCur59242	Crash due to tplus_client_stop_timer.
CSCur59627	CUBE has stuck/stale TCP socket opened by SIP TLS application.
CSCur61500	Cisco Catalyst 6000 Series: MPLS VPN label not pushed for Layer 3 unnumbered interfaces.
CSCur62223	Router stops all traffic out of MFR link with crypto map with ISM module.
CSCur63068	Wrong IKEV2 session-lifetime value calculations for larger vlaues.
CSCur63761	Ping passes even after denied ACL entry is applied.
CSCur65007	IKEv2 SA does not come up if invalid session-lifetime attribute is used.
CSCur65486	GETVPN: Fail to delete GMs on sec-KS after 3 scheduled rekeys failure.
CSCur65936	Cisco IOS XE Release 3.15S: DO-EO Video call is not working.
CSCur66140	Import of global routes to VRF fails.
CSCur68999	Configuration change on tunnel interface using shared tunnel protection stops traffic.
CSCur73327	IKEv2 - AAA IPv6 route set local installed in wrong VRF.
CSCur76019	Router reloads when deleting a VLAN MEP with CFM diag debug on.
CSCur78068	Quad+fex mk2 (fc):after issu LV - IPC trace back, sw2(ICS) is crashed.
CSCur78744	LISP mobility with HSRP invalid host detection events.
CSCur82459	DIAMETER trap getting enabled when PKI trap is enabled.
CSCur85454	VXML GW fails to hand off call to VXML application.
CSCur86768	IKEv2 reconnect radius ACCT to have terminate cause for suspend/resume.
CSCur87077	Ping failure is seen when annex F & G is configured.
CSCur92145	Added delete sw_if_notify from CP to DP for increasing number of tunnels.
CSCur95957	Path confirmation fails while testing DTMF + Transrating call scenario.
CSCur96186	Cisco ISR G2 Routers crash when Virtual-Access comes up.
CSCur97045	IS-IS Passive-interface default unavailable.
CSCur97520	CSR RESTAPI: ImportError: No module named argparse.
CSCur98442	ISM-VPN does not boot with Cisco IOS Release 15.5(2)T image.
CSCur99303	Calls are being disconnected after receive A3-B7.
CSCus00969	To revert changes of CSCuo88431 to avoid startup-config backup.

Identifier	Description
CSCus01544	Cisco IOS XE Release 3.13S rejects routes from eBGP peer due to malformed ATTR-SET attribute.
CSCus01735	cbQosTSCfgRate64 is not supported on Cisco ASR 1000 Series Routers/IOS XE Release.
CSCus10676	Router reloads while testing BFD with static routes.
CSCus13533	Cisco IOS Releases XE3.14S and 15.5(1)T: GDOI Interop Rekey ACK - Bad derivation of ACK Key.
CSCus13902	Failure seen in OER Border router functionality.
CSCus14655	Cisco IOS Release 15.5(2)T: CUBE crashed when enabling Cayuga media forking.
CSCus24822	Remove call disconnect statistic request duplicates in ESG platforms.
CSCus29483	HTTPS links fail to render through IOS SSLVPN clientless portal.
CSCus38393	Cisco ASR 1000 Series Routers: IOSd crash @process_run_degraded_or_crash.
CSCus38556	ISM-VPN: DTLS traffic fails when crypto map is applied on SSLVPN interface.
CSCus40228	50% packet drops while testing various scenarios in PBR.
CSCus47361	DSMP statistic request timeout causes 4 more seconds to disconnect.
CSCus48493	POODLE related fix: IOS SSLVPN required to support TLS.
CSCus48584	POODLE protocol fix: IOS: Voice-XML HTTPS client (Use TLS).
CSCus54806	Cisco 891 Router reloads while booting with Cisco IOS Release 15.5(2)T image.

Bugs for Cisco IOS Release 15.5(1)T

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.
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.

Filter	Description
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 15.5(1)T3

Table 30: Open Bugs—Cisco IOS Release 15.5(1)T3

Identifier	Description
CSCup87813	Router crashes in signaling forking calls.
CSCtq36241	IPv6 unicast routing breaks per-user IPv4 ACL.
CSCur71089	SIM toggling between sim0 and sim1.
CSCur96943	CCSIP_SPI_CONTROL leak in sippmh_parse_record_route.
CSCus05038	The revocation-check ocsp none command does not timeout fast for unreachable server.
CSCus07134	Redundancy inter-device is broken with security IPsec.
CSCus26844	Interrupt stack overrun and crash caused by MPLS recursive tunnel lookup.
CSCus29483	HTTPS links fail to render through IOS SSLVPN clientless portal.
CSCus58505	IOS DNS server returns answer unlabeled on MPLS-enabled interface.
CSCus65125	Router crash with NAT @ ipnat_for_us_feature.
CSCus72019	DHCP server crash when DHCP client interface transitions shut and no shut.
CSCus79972	Crash on tunnel protection ipsec profile profile-name.
CSCus80423	Cisco 1921/K9 / DNS process caused CPU hog and router crash.
CSCus92857	Crypto stateless redundancy causing IPsec install failed after preempt.
CSCut26988	Broken bw repartition: traffic is send as without configured bw under MQC.
CSCut38455	Anyconnect SSL connectivity issues after some period of time.
CSCut53686	When a 3G call is dropped, it is not reestablished.
CSCut55517	Memory corruption due to crypto PKI.
CSCut96721	Crash on PFR master router at oer_mc_apc_changed_prefix.
CSCuu10241	DTLS related traceback on an IOS router terminating SSL VPN.
CSCuu31514	IOS PKI RA rollover certificate not automatically granted.

Identifier	Description
CSCuu33351	Input queue wedge due pool_grow_cache.
CSCuu44820	Spurious memory access caused router to crashes when configured with the zone-based firewall.

Open Bugs—Cisco IOS Release 15.5(1)T2

Table 31: Open Bugs—Cisco IOS Release 15.5(1)T2

Identifier	Description
CSCup87813	Router crashes in signaling forking calls.
CSCtq36241	IPv6 unicast routing breaks per-user IPv4 ACL.
CSCuq91734	NHRP packets are dropped after EzVPN decryption.
CSCur23619	IKEv2 reconnect radius accounting stop should mention terminate cause.
CSCur68999	Configuration change on a Tunnel interface using shared tunnel protection stops traffic.
CSCur71089	SIM toggling between sim0 and sim1.
CSCur96943	CCSIP_SPI_CONTROL leak in sippmh_parse_record_route.
CSCus05038	The revocation-check ocsp none command does not timeout fast for unreachable server.
CSCus07134	Redundancy inter-device is broken with security IPsec.
CSCus26844	Interrupt stack overrun and crash caused by MPLS recursive tunnel lookup.
CSCus29483	HTTPS links fail to render through IOS SSLVPN clientless portal.
CSCus58505	IOS DNS server returns answer unlabeled on MPLS-enabled interface.
CSCus65125	Router crash with NAT @ ipnat_for_us_feature.
CSCus72019	DHCP server crash when DHCP client interface transitions shut and no shut.
CSCus79972	Crash on tunnel protection ipsec profile profile-name.
CSCus80423	Cisco 1921/K9 / DNS process caused CPU hog and router crash.
CSCus92857	Crypto stateless redundancy causing IPsec install failed after preempt.
CSCut26988	Broken bw repartition: traffic is send as without configured bw under MQC.
CSCut32445	Crash: IPSec/ISAKMP timer driven crash involvement suspected.
CSCut38455	Anyconnect SSL connectivity issues after some period of time.
CSCut42645	Input queue wedged on an SSLVPN-enabled router.

Identifier	Description
CSCut53686	When a 3G call is dropped, it is not reestablished.
CSCut55517	Memory corruption due to crypto PKI.
CSCut85551	Crash with DMVPN NHS using FQDN.
CSCut67877	Router crashes when changing tunnel destination.
CSCut96721	Crash on PFR master router at oer_mc_apc_changed_prefix.
CSCuu10241	DTLS related traceback on an IOS router terminating SSL VPN.
CSCuu18348	IOS PKI HA fails to initialize on standby router after reload or upgrade.
CSCuu31514	IOS PKI RA rollover certificate not automatically granted.
CSCuu33351	Input queue wedge due pool_grow_cache.
CSCuu44820	Spurious memory access caused router to crashes when configured with the zone-based firewall.

Open Bugs—Cisco IOS Release 15.5(1)T1

Table 32: Open Bugs—Cisco IOS Release 15.5(1)T1

Identifier	Headline
CSCuj04914	Memory hold in "SSLVPN_PROCESS" with SSL VPN enabled.
CSCun13772	NHRP: CPUHOGs seen when many child entries expire simultaneously.
CSCup04595	Cisco ASR1000 Series Routers crashed at nhrp rn_delete.
CSCup87813	Router crashes in Signaling Forking calls.
CSCur23619	IKEv2 reconnect radius accounting stop should mention terminate cause.
CSCur71089	SIM toggling between sim0 and sim1.
CSCur96186	Cisco ISR G2 routers crash when Virtual-Access comes up.
CSCus07134	Redundancy inter-device broken with "security ipsec"
CSCus08337	Memory leak in IPSEC key engine process with VAM2+.
CSCus29483	HTTPS links fail to render through IOS SSLVPN clientless portal.
CSCus54238	PKI "revocation check crl none" does not fallback if CRL not available.
CSCus72752	Crash on sslvpn_process.
CSCus77875	List headers leak verified cert chain Held CCSIP_TLS_SOCKET & Chunk Mgr.

Identifier	Headline
CSCus79972	Crash on "tunnel protection ipsec profile profile-name."
CSCus80423	CISCO 1921/K9 /DNS process caused CPU hog and router crash.
CSCus85689	Crashes in policy routing, under "OER Border Router" process.
CSCus92857	Crypto Stateless redundancy causing "IPSEC install failed" after preempt.
CSCus95177	MAINBOARD-2-INITFAIL on multiple Cisco 2911 routers.
CSCut02658	Crash @ list_insert_default.

Open Bugs—Cisco IOS Release 15.5(1)T

Table 33: Open Bugs—Cisco IOS Release 15.5(1)T

Identifier	Headline
CSCug34152	IGMP: drop > 30% multicast packets when Tx=10Mbps,drop 100% when Tx>15M.
CSCug89173	Fragmented GETVPN traffic fails after few seconds with ISM-VPN.
CSCuh29880	CPUHOG watchdog crash shdsl_efm background.
CSCuh36583	ISRG2 - DSP crashes due to Backplane Switch Lockup During T1 Errors.
CSCuh56980	TS: inception broadcast, multicast storm control flapping does not work.
CSCui75586	A Cisco router crashes with live traffic.
CSCuj86253	2900 with Multiple EHWIC-4ESG-Ps and L2TPv3 via SVI's drops 50% multicast.
CSCul52326	L2TP/IPsec with NAT-T to ISR-G2 with ISM-VPN module fails.
CSCum89348	On ISR with ISM enabled, SSH gets disabled upon reload.
CSCun58751	Authenticator receives error messages from aaa server for coa request.
CSCun94946	IOS: Vulnerability in Cisco IOS Zone Based Firewall.
CSCuo07441	A Cisco router crashes with ISM-VPN at reventon_outbound_ipsec_offload_int.
CSCuo20765	ISM crash seen during smaller frames fragmentation/reassembly.
CSCuo29221	CWS: Content-scan proc utilizing 75% CPU when tower is any HTTP server.
CSCuo42832	IPS: Crash at ips_dp_feature_action_internal with IPS, ZBFW, CWS, NAT.
CSCuo67776	UP24 GRE IMIX,64&v6: 2to13% perf degradation seen with Cisco IOS Release 15.4(2.12)T.
CSCup04595	A Cisco ASR 1000 Series router crashes at nhrp rn_delete.

Identifier	Headline
CSCup19724	CENT: branch MC crashed at cent_pdp_msg_send_from_pickexit.
CSCup31668	XoT to TCP translates intermittently close the TCP session.
CSCup67654	ISM-VPN crashes running 152-4.M6a, -Traceback= 1000b8a0.
CSCup93071	High RTT value causing IPSLA to fail though remote end is reachable.
CSCup94022	CWS: WL: Crash seen after "no whitelist down" during XML Download.
CSCuq00860	Update Nitrox Microcode.
CSCuq22269	Path MTU is not getting changed.
CSCuq25323	DLSW peers fail to connect when other DLSw peer sends FIN instead of RST.
CSCuq32246	Memory corruption crash in the content scan ug chunk with CWS enabled.
CSCuq64532	Firebee router's PIM hellos dropped intermittently in Firebee port.
CSCuq66242	ZBF+ISM+DMVPN requires explicit permit for GRE traffic.
CSCuq67912	Firebee: After shut/no-shut of mrouter port, IGMP snooping stops working.
CSCuq69769	DMVPN event traces for nhs recovery on HUB fails.
CSCuq72859	Profile C performance degradation in 3945e and 3925e intel platforms.
CSCuq72954	Coarse Grain monitor performance degradation in 3945e and 3925e platform.
CSCuq74176	PKI IOS removed valid CA certificate before expiry date.
CSCuq75576	Input queue wedged on outside interface of standby nat-ha router.
CSCuq86232	Rollover certificates are not generated properly.
CSCuq86726	CPU shoots to 100% with NAT on 3945e and does not recover.
CSCuq91734	NHRP Packets are dropped after EasyVPN decryption.
CSCuq99668	891F: QoS does not work properly on BRI leased-line interface.
CSCur06126	Counters in 'show policy-map int' not work when dialup is used.
CSCur07269	QoS is causing alignment errors on MLPPP E1 interfaces.
CSCur08999	DHCP Snoopping/Firebee port not dropping DHCP offer on untrusted port.
CSCur09167	mcast to receiver stops when another receiver joins an aliased mcast grp.
CSCur10541	Firebee/ DHCP Snooping's verify MAC address feature not working.
CSCur14893	C891FJ packet drops strikingly with 64byte/100Mbps traffics.
CSCur16772	Firebee/ DHCP Snooping database not getting stored in flash/nvram/tftp.

Identifier	Headline
CSCur23594	Performance issue after ADSL flap.
CSCur23832	SNASw: Memory usage increase in N-base process at 12.4(25g).
CSCur28336	Alignment error and crash with scansafe enabled.
CSCur29192	cBargeCall is not getting connected in Cisco IOS Release 15.5(1)T.
CSCur29261	Memory courruption in retrans TCP sanity check causes ISR crash.
CSCur33778	Stateful IPSec HA fails to encrypt traffic due to duplicate ruleset entr.
CSCur52960	ip nhrp does not come up after ISM crash and restart.
CSCur55365	50% ping failure with IPv6 dual stack and dialer configured.
CSCur59242	Crash due to tplus_client_stop_timer.
CSCur60607	Random flaps on HSRP standby if hello timer in msec.
CSCur64914	Memory leak by "CDP protocol" at Cisco2901 router.
CSCur68356	%ALIGN-3-CORRECT alignment errors leading high CPU.
CSCur69868	Cisco IOS Release 15.4(3)M: traffic loop when redirected over LAN interface between local BRs.
CSCur73327	IKEv2 - AAA IPv6 route set local installed in wrong VRF.
CSCur73777	Vaccess cloning fails if Vtemplate is IPv6 enabled + VRF pushed by AAA.
CSCur74187	A Cisco device sends Client IP address as "Calling-Station-Id" with WebAuth.
CSCur77354	A Cisco router reloads due to dhcpc_addr_purge accessing a previously freed ipl.
CSCur80170	Crypto IKMP process causes high CPU usage with DMVPN.

Resolved Bugs—Cisco IOS Release 15.5(1)T3

Table 34: Resolved Bugs—Cisco IOS Release 15.5(1)T3

Identifier	Description
CSCus94258	AIGP metric not used when NH has AIGP attribute
CSCus82903	BGP - %IPV6_ADDRESS-3-NULLIDB: Uninitialized interface pointer
CSCuu75177	BGP crash if community-list name is bigger then 80 characters
CSCuv31135	Disable connected-check in one side only makes route as unreachable
CSCuu85298	FIB/LFIB inconcistency after BGP flap

Identifier	Description
CSCum41167	Importing multipath routes changes next-hop to 0.0.0.0 and traffic fails
CSCuv07111	IOS and IOS-XE devices changing the next-hop on BGP route with own IP
CSCuw11898	c5930 : Crash leaded by BADSHARE messages when shaping traffic
CSCut42645	input queue wedged on a SSLVPN enabled router
CSCut45089	CWMP configuration apply failure
CSCut03230	Crash when we configure primary tower name with char out of boundary
CSCuu51602	show voice dsmp stream caused crash
CSCuu68439	Crash after no route-target import command
CSCut28445	CSCur47160 broke load balancing
CSCuu03778	ISSU:XE313<->XE314 Traceback@fib_subtree_context_lc_unpack_xdr after RV
CSCuu26303	Router crash triggered by service policy and ipv6 traffic
CSCur01042	ACL on tunnel bypassed in CEF path if ACL on phy intf allows it
CSCuv43978	IPv6 GRE over 6PE does not work properly
CSCuv80943	MCP_DEV:Packet drops@Ipv6NoRoute with ipv6gre configs
CSCuu29667	ASR1K crash when snmp setting cipSecTunnelEntry
CSCur68999	config change on Tunnel int using shared tunnel protection stops traffic
CSCus92857	Crypto Stateless redundancy causing 'IPSEC install failed' after preempt
CSCuu54392	Different Tunnel Protection with shared profile cannot be used
CSCut87217	GETVPN - ASR1K GM deny policy fails when the policy is updated by the KS
CSCuq91734	NHRP Packets are dropped after EzVPN decryption
CSCut32594	OSPFv3 encryption - Adjacency not up after reload
CSCus85701	AQoS peer mismatch with NAT
CSCuv71979	FlexClient: IP address loss even after the CSCuj40010 fix
CSCuu93699	Crash on IKEv2 cluster hub when anyconnect client tries reconnect
CSCur23619	IKEv2 reconnect radius accounting stop should mention terminate cause
CSCtf30773	Bogus ip addresses shown in 'SA has outstanding requests' debug message
CSCut32445	Crash - IPSec/ISAKMP Timer driven crash.
CSCuu08685	IOS Invalid SPI Recovery causes TP not configured or sadb not init err

Identifier	Description
CSCuu24977	Packet accouting of IKEv2 stops when IKEv1 client is provisioned
CSCuv26780	Memory leak when qos pre-classify is configured with Crypto
CSCut88270	Duplicate hsrp vmac entries on OTV AED failover & failover enhancements
CSCut30167	ISIS may crash when reaching LSPFULL condition with IPv6 routes
CSCuv81298	LFA SPF causes cpuhog and crash in scaled test with 400 nodes
CSCuu77927	OTV stuck in inactive status when failover due to missing isis vlan tlv
CSCur83129	error msg: SOC4E COMMAND FAIL seen in live network
CSCut58291	Crash in L4F (tup_lookup_func) with CWS configured on the router
CSCus82816	Crash in tup_lookup_func in Scansafe feature
CSCus89274	Crash with nat/reflective acl and TCP session going through that box
CSCuq59708	SSTE: Crash seen at l4f_set_tcp_option on passing malformed packets
CSCut57290	Egress LER TTL propagation misbehaviour in per-ce label allocation mode
CSCut85551	Crash with DMVPN NHS using FQDN
CSCuo67247	High CPU due to NHRP process on ASR in DMVPN ph3 after upgrade
CSCur06845	NHRP control packets should be forwarded preferably on the same cloud
CSCut77619	APRIL 2015 NTPd Vulnerabilities
CSCuv23475	CPUHOG and crash on 'no network 0.0.0.0' with vnet configuration on intf
CSCus68229	Memory leak in OSPFv3R
CSCuu68144	Crypto CA process Traceback after PnP preprovisioned rule match
CSCuu18348	IOS PKI HA fails to initialize on standby router after reload or upgrade
CSCuu81737	Router crashes when using crypto
CSCus01735	cbQosTSCfgRate64 is not supported on ASR1k/IOSXE
CSCut67877	IOS crashes when changing tunnel destination on a Tunnel with QoS
CSCur90546	qos_mon_periodic processes getting spawned without any configs
CSCuu46604	Router crashes when a failed primary link comes back up
CSCus46741	Service Policy disappears from running configuration of a 10G iinterface
CSCur10531	Shaper not working for priority queue (LLQ)
CSCut46705	Wrong bandwidth distribution in SIP 200 & 400 causes queue limit of 2

Identifier	Description
CSCuu82607	Evaluation of all for OpenSSL June 2015
CSCur60204	IOS evaluation for CVE-2014-3567, CVE-2014-3568 and CVE-2014-3513
CSCus61884	JANUARY 2015 OpenSSL Vulnerabilities
CSCut46130	MARCH 2015 OpenSSL Vulnerabilities
CSCuw47130	STCAPP commands gets removed after reloading 43XX/44XX routers
CSCuq24202	Cisco IOS TCL script interpreter privilege escalation vulnerability
CSCuv51901	ASR1K BGP send UPDATE don't observe the TCP OPTION
CSCuq25323	DLSW peers fail to connect when other DLSw peer sends FIN instead of RST
CSCur29261	Memory courruption in retrans TCP sanity check causes ISR crash
CSCur67691	Continous reload issues seen on ASR1K B2B Redundancy
CSCuu60542	Route crashed at KA in function flex_dsprm_send_vtsp_alarm_indication
CSCuu33464	Router crash following DSP shutdown or failure
CSCut59448	Null0 interface disappear and Routes pointing to Null0 do not work
CSCuv19830	VOIP_RTCP Traceback on Voice-GW affecting calls sporadically
CSCuv34164	Crash after SCCP session tear down via no sccp command
CSCuw26259	SIP SUBSCRIBE msg is responding back with 503 Service Unavailable
CSCuv23813	Crash at be_cellular_get_mgmt_instance when no shut 1T

Resolved Bugs—Cisco IOS Release 15.5(1)T2

Table 35: Resolved Bugs—Cisco IOS Release 15.5(1)T2

Identifier	Headline
CSCug45421	The standby RP crashes SSS manager followed by one SSM manager.
CSCui65914	Minor/major temperature alarms in syslog along with data corruption logs.
CSCum82668	ATM PVC removal from range-pvc moves PVC to incorrect prompt level.
CSCum90471	Cisco ASR 1000 Routers: Ping failure between CE1 & CE3 after switchover.
CSCun13399	Flow-ID for some IMA VCs are not synced on the standby RSP.
CSCun29420	Crash observed with active IP SLA probes.

Identifier	Headline
CSCun57148	High CPU in FNF Cache Ager P.
CSCun68322	Support BGP GR for VPN AF in platform without MPLS.
CSCun87941	PPP link interfaces causes SUP to crash.
CSCuo86388	NXOS-VPC-VPLS Scale-after Core LC OIR, subset of pseudowire remain in down state.
CSCup48874	IPv6 neighbor link-local address not learnt after RSP failover.
CSCup80756	SNMP engine crashes in Cisco IOS XE, Segfault When Processing rttMonStats MIB.
CSCuq17256	GRE tunnel down while using IPsec.
CSCuq17550	Cisco ISR G2: GETVPN-IPv6 Egress IPv6 Interface ACL checked before encryption
CSCuq36627	WAAS Express: Failed to create SSL session. No available resources.
CSCur07269	QoS is causing alignment errors on MLPPP E1 interfaces.
CSCur17744	High CPU when configuring Flexible Netflow (due to CFT Timer Process).
CSCur18715	Cisco UCM native queue call disconnect due to application AckTimer expiry.
CSCur21757	Memory leak *Dead* = AFW_application_process and QSIG-rose.
CSCur23544	Enable-timeout less than 6 seconds disappears after reload.
CSCur24102	SSTE: Memory leak @ license_modify_priority_by_line_local.
CSCur24686	Cisco 891F: Forwarding delay on BRI output queue.
CSCur26541	Router crashes upon receiving a RADIUS Access-Accept message.
CSCur55365	50% ping failure with IPv6 dual stack and dialer configured.
CSCur59627	Cisco UBE has stuck/stale TCP socket opened by SIP TLS application.
CSCur63761	Ping passes even after denied ACL entry is applied.
CSCur66140	Import of global routes to VRF fails.
CSCur70959	Memory leak @ sipContentObjPvtSetBody.
CSCur88684	Ethernet0 - Output-queue stuck in full state.
CSCur98442	ISM-VPN does not boot with Pi27 image.
CSCur99303	Calls are being disconnected after receive A3-B7.
CSCus00969	To revert changes of CSCuo88431 to avoid startup-config backup.
CSCus01544	Cisco IOS XE Release 3.13S rejects routes from eBGP peer due to malformed ATTR-SET attribute.
CSCus11365	L2VPN pseudowire backup state DN after SUP HA.

Identifier	Headline
CSCus13902	Failure seen in OER border router functionality.
CSCus14484	Crash on exporting map from VRF to global through BGP.
CSCus20997	Cisco ASR 1000 Series Routers: BGP Notification of admin shutdown triggers graceful restart.
CSCus26146	VRF LISP routes not exported to global table with valid next hop.
CSCus29873	Active RP Crash on EoGRE session scale.
CSCus38037	Crash when the show voice class ctl-file command is executed.
CSCus43594	RP crash when cleaning up VPLS scale configuration.
CSCus54238	PKI revocation check crl none does not fallback if CRL not available.
CSCus58387	Incorrect behavior in BGP VPNv4 import removing redistribute connected.
CSCus65095	SSTE: QoS preclassify was broken.
CSCus70527	MDC: Template and IPC issue leading to hung memory allocation.
CSCus72257	50% ping failure with IPv6 dual stack and dialer configured.
CSCus73553	Memory corruption crash in PKI certificate processing.
CSCus74192	Link down event does not flush the routes correctly with ISIS.
CSCus75907	Router crashes when Fax T38 protocol is configured.
CSCus77875	List headers leak verified certificate chain Held CCSIP_TLS_SOCKET and Chunk Manager.
CSCus82775	RSP2: MSPW sessions down on S-PE after SSO.
CSCus88868	IOS open SSL leak observed with SSL Anyconnect VPN.
CSCus89791	G722-64 codec crash during dial tone with country code.
CSCus94048	Traffic policing technique is not working over ATM interface.
CSCut08626	DSMP crash at DSP packet buffer allocation.
CSCut11154	Traffic drop of 4 seconds seen after second SSO with LFA FRR configurations.
CSCut17865	Cisco ASR 1000 Routers:13RU IOSd crash @PnP Agent Discovery after router reload.
CSCut18365	Tracebacks found @ moh_multicast_recv_input.
CSCut30579	Dynamic PBR policy is inconsistent and never updates after path failover.
CSCut32709	DMo/CAF on GOS.
CSCut48038	cdma gps nmea is not getting configured.
CSCut50109	Cisco CSR 1000V Routers: Radius IPsec accounting packet count gets doubled.

Identifier	Headline
CSCut67718	Media-monitoring crash at mmon_set_start_timer().
CSCut92745	Crash while placing MLPP calls.

Resolved Bugs—Cisco IOS Release 15.5(1)T1

Table 36: Resolved Bugs—Cisco IOS Release 15.5(1)T1

Identifier	Headline
CSCum94541	Split Source-interface missing in PKI enrollment profile.
CSCun72450	IPv6 GETVPN traffic dropped after un-configure then re-configure VRF.
CSCuo81912	SSTE: Unable to remove performance-monitor once the interface is deleted.
CSCup32531	Both ESPs crash at AOM Parent when flapping 6K flexvpn sessions.
CSCup95191	ENH: IKEV2 reconnect should use original EAP ID for acct.
CSCuq15567	Crash with %SYS-3-OVERRUN with crypto_ipsec_clear_peer_sas.
CSCuq41114	ENH: SSH configuration option to restrict cipher public key and HMAC.
CSCuq41982	Crash at login %SYS-6-STACKLOW: Stack for process LOCAL AAA running low.
CSCuq45483	Few VRF routes not programmed in DFCs in a SUP2T VSS w/C6800-32P10G-XL.
CSCuq46973	CENT MMA not working after attach perf-mon on WAN interface on Cisco ISR.
CSCuq59704	W153657-SDK API's returns errors.
CSCuq69894	Session is not syncing to the standby after standby reload.
CSCuq74176	PKI IOS removed valid CA certificate before expiry date.
CSCuq74492	IOS/IOSd Multiple Vulnerabilities in OpenSSL - August 2014.
CSCuq77550	TEK remaining lifetime not updated on GM.
CSCuq86382	FLEXVPN IKEv2 auto reconnect | virtual-access | VRF lost | anyconnect.
CSCuq88419	GETVPN Suite-B: Adding permit to KS ACL, wrong policy on GM & Sec KS.
CSCuq94877	IKEV2 Anyconnect session reconnect fails on multiple reconnects.
CSCuq97336	Crash on Crypto PKI Enrollment.
CSCuq99797	BGP Route-Target not advertised when rtfilter address family in use.
CSCur09682	Router crashes in PIM due to infinite recursion at ip_set_mdb_flag.

Identifier	Headline
CSCur10058	IOS PKI: CRL parsing may fail if HTTP Content-Length is not specified.
CSCur10923	IKEV2 Anyconnect reconnect fails on multiple reconnects with certs.
CSCur13285	Cisco UBE:Router crash seen at sip_mpa_free_event_info function.
CSCur13495	Service-data of a service change is not updated by SAF forwarder.
CSCur14783	PnP: ZTD in Cisco ISRs blocked due to config wizard.
CSCur15263	vIOS crash in IPsec because wrong parameters passed to event trace write.
CSCur23656	Cisco IOS and IOSd in IOS-XE : evaluation of SSLv3 POODLE vulnerability.
CSCur29582	IPSEC-VPN: removal of 'crypto-map' kills BFD session forever.
CSCur29861	Traceback seen on Cisco c2900 platform for ike_keepalives.
CSCur36464	mVPN: Inter-AS Option B: Different RDs: proxy vector: local RD is picked.
CSCur51387	NG3K stack: standby gets reloaded due to reason "configuration mismatch."
CSCur54389	SRTP-RTP Call with HOLD/RESUME disconnected.
CSCur59242	Crash due to tplus_client_stop_timer.
CSCur62223	Router stops all traffic out of MFR link with crypto map with ISM module.
CSCur65486	GETVPN: Fail to delete GMs on sec-KS after 3 scheduled rekeys failure.
CSCur66140	Import of Global routes to VRF will fail.
CSCur73327	IKEv2 - AAA IPv6 route set local installed in wrong VRF.
CSCur82459	DIAMETER trap getting enabled when PKI trap enabled.
CSCur86768	IKEv2 reconnect radius ACCT to have terminate cause for suspend/resume.
CSCur95957	Path confirmation fails while testing DTMF + Transrating Call Scenario.
CSCur97045	IS-IS Passive-interface default unavailable.
CSCur87077	Ping failure is seen when annex F & G is configured.
CSCus13533	Cisco IOS XE Release 3.14S and Cisco IOS Release 15.5(1)T- GDOI Interop Rekey ACK - Bad derivation of ACK Key.
CSCus30128	RRI dynamic L2L after client change ip address Ipsec rekey lost routes.
CSCus48378	IOS: CNS feature needs to support TLS.
CSCus48386	IOS: LDAPv3 client: Support TLS.
CSCus73816	C888-K9 is not working with Cisco IOS 155-1.23.T image.

Resolved Bugs—Cisco IOS Release 15.5(1)T

Table 37: Resolved Bugs—Cisco IOS Release 15.5(1)T

Identifier	Headline
CSCtr15891	DPD behaviour change - to send per IKE.
CSCtn89603	PPP SIP CCM needs to handle the session recreation down properly.
CSCtt26643	Crash on receiving a dot1q packet on FR interface.
CSCua29604	Full scan is not triggered when import map configuration is applied.
CSCuc08324	PPTP or L2TP tunnel can stop working suddenly if MPPE is negotiated.
CSCuc68034	IO Memory Leak on FlexWan WS-X6582-2PA exec show cef interface internal.
CSCug08566	BGP does not advertize a global static route pointing to a VRF interface.
CSCuh07579	IPSec fails to delete/create SAs due to IPSec background process stuck.
CSCui23670	Even if show sup-bootdisk is executed, nothing is displayed.
CSCuj13127	SSTE: DNS IPv6 traffic fails with IKEv2 and ZBFW configured.
CSCuj53943	Multicast packets are dropped after the clear crypto gdoi ks members command.
CSCuj66067	Cisco ASR 1000 Series Routers - BGP Route-Server scale config causing low memory.
CSCul18552	After switchover QoS Policy Map in the standby device is not synced as to the active device.
CSCul39964	Cisco ASR 1000 Series Routers running out of memory, causing sessions stuck in WT_ST.
CSCul70788	Router crashes when calculating the best cost successor in EIGRP DUAL.
CSCul90553	DMVPN EIGRP unable to reach 4000 tunnels on RP2-based IOS-XE platforms.
CSCum00643	CCSIP cause crash when call is established.
CSCum09321	Traceback seen at "pq3_tsec_rx_interrupt" on Cisco ISR 3900 Series Routers.
CSCum14830	IPv6/After route leak from VRF to global using BGP, next hop shows null0.
CSCun41391	FP crash on Cisco ASR 1000 Series Routers after upgrade from Cisco IOS XE Release 3.7.2S to 3.11.0S.
CSCum46850	LISP: match not allowed on redistribution of LISP routes into BGP.
CSCum46924	Mac AC client fails SSLVPN connect to IOS router with ISM-VPN enabled.
CSCum54276	IO Buffer leak at SCTP.
CSCum73170	Unable to collect sufficient entropy.

Identifier	Headline
CSCum85813	Floating static not installed on Cisco ASR 901 Routers.
CSCum87411	Software install from TFTP get failed fts_client issue.
CSCum90577	MAC-address-table secure sticky does not work.
CSCum93027	Cisco ASR 1000 Series Routers in Cisco IOS XE Release 3.11S: Crash on removing sub-intf with OSPFv3 IPSec authentication.
CSCum94541	Split Source-interface missing in PKI enrollment profile.
CSCum96955	SSTE: router crash @ ether_extract_addr, mace_dp_feature_action_pre_waas.
CSCun67114	AS90: IP SLA Y.1731 sessions fail after scaling down RMEPS on Initiator.
CSCun17912	No entry in the show call-home diagnostic-signature command output after reload.
CSCun52430	FFM: Queue-limit not getting updated during unconfig.
CSCun53358	CLI hang executing show flow cache filter ipv4 source address 8.8.8.8 for tab.
CSCun62014	Router crash with %SYS-3-BADFREEPTRS after reconfiguring PPPOE.
CSCun62181	Cisco ASR 1000 Series Router crashes at crypto ipsec update peer path mtu.
CSCun67364	RSP2: Convergence in the range of 1 second with LFA.
CSCun68322	Support BGP GR for VPN AF in platform without MPLS.
CSCun68542	Invalid prefixes learned from RR with BGP add-path feature enabled.
CSCuo76187	BGP sends out VPN invalid update without label in MP_REACH.
CSCun86606	Cisco IOS XE Release 3.10: IOSD crashed when ip cef show cmd and OSPF cleared in parallel.
CSCun86062	TS:SS: Cisco IOS XE Release 3.13S: CUBE phone-proxy does not follow PKCS1 form CTL signature.
CSCun88463	Router reload due to memory corruption with IP SLA.
CSCun92081	Traceback seen while disabling ipv6 unicast routing with IS-IS.
CSCuo04674	Cisco ISR3900 Router hangs when large number of dummy packets flow thorough it.
CSCuo11179	Standby RP crashing at class_policy_avl_compare_nodes.
CSCuo21431	NTLM authentication failed when DMVPN tunnel goes down and comes up.
CSCuo23114	Packet loss observed when unrelated interface is unshut.
CSCuo29389	NTP clients of 3900 loses sync sporadically, due to high offset variations.
CSCuo35867	CPOS PPP interface UP/DOWN.

Identifier	Headline
CSCuo44562	Cisco ASR 1000 Series Routers crash @policymap_inform_child_policymaps.
CSCuo45012	Multicast packet will be copied when passed router.
CSCuo46913	Crash after running debug cry condition peer subnet.
CSCuo48507	ISSU: Cicso IOS XE Release 3.10S and XE3.11S: Packet drops seen with ikev2_dvti after switchover.
CSCuo48888	IP (RTP) header compression is one-way.
CSCuo49923	c4mk13: Device crash with Unexpected exception to CPU after RV.
CSCuo51246	Traffic flow is not as expected when ipv6 policing is enabled on UUT.
CSCuo51707	IP Address is getting accepted with MPLS xconnect.
CSCuo54251	MAC address entry for authenticator missing from mac-address table.
CSCuo55180	Cisco ASR 1000 Series Routers with PPPOE subscribers block overrun crash.
CSCuo55560	UMMT- ISIS uloop avoidance delay not canceled with multi-topology configs.
CSCuo56871	Cisco ASR 1000 Series Router route server crashes due in BGP task.
CSCuo56173	Interoperability with ALU-VC comes up after 10 minutes.
CSCuo60139	URL filtering not working with nested class-maps.
CSCuo63700	Cisco ISR G2 Routers crash during SNR calls.
CSCuo64915	PPP half bridge functionality support in Cisco ASR 1000 Series Routers.
CSCuo65122	C888-K9 is not working with Cisco IOS Release15.4(2.12.1)PIH25 image.
CSCuo66491	Fast Mode causes TC uncontrol if probes fail on alternate exits.
CSCuo70451	IPS: Crash@ips_dp_delete_half_open_session seen after heavy HTTP traffic.
CSCuo71145	Standby VSS switch crashes when configuring flow exporter.
CSCuo74080	PSS sanity: queuing tests failing.
CSCuo72961	Cisco ASR 1000 Series Routers:%FMFP-3-OBJ_DWNLD_TO_CPP_FAILED: F1: fman_fp_image: Batch type.
CSCuo73360	RSP2: IOSD crash @mgd_timer_dump.
CSCuo81548	PSS sanity: L2 ACLs not configured correctly.
CSCuo81912	SSTE: Unable to remove performance-monitor once the interface is deleted.
CSCuo83510	Stack overflow detected at ospfv3_router_process upon boot with NBMA configuration.

Identifier	Headline
CSCuo85191	Standby Cisco ASR 1000 Series Routers running CUBE application crashes at cc_free_feature_vsa.
CSCuo86953	Crash due to the show logging command.
CSCuo87288	Router crashed @tcp_deallocatetcb using codenomicon tool.
CSCuo91745	CENT: blackhole should not drop TC when TC is learned at the beginning.
CSCuo92912	SLM counters do not increment after LACP switchover on remote PE.
CSCuo93726	DMVPN EIGRP unable to reach 4000 tunnels on Cisco ASR 1000 Aggregation Services Routers and Cisco IS 4451 Series Routers.
CSCuo95313	Duplicate cookies in every Access-Request.
CSCuo95771	IPSec SA are deleted incorrectly by background process.
CSCuo96504	FlexClient: Spurious memory access and alignment error during tunnel flap.
CSCuo96809	Crash seen when enabling "debug sanity".
CSCuo97277	iosd crashed at bfd_chkpt_create_and_send_msg.
CSCuo97754	IOS fails to recognize usbflash0:.
CSCup00882	Crash when deleting OSPF IPFRR configuration.
CSCup01258	show ipv6 dhcp pool command displays wrong output after router reload.
CSCup01885	Cisco ASR 1000 Aggregation Services Routers reboots.
CSCup03259	Normal buffer leak in pak_copy_network_start_particlized.
CSCup04062	IOS SSLVPN - AnyConnect Data traffic failure with TLS transport.
CSCup04305	Router Crash seen @ __be_ospf_schedule_rtr_lsa.
CSCup05447	TWAMP not comming up, ASR901 sending RST.
CSCup05490	ST-XE313: Crash with debug voip fpi error under load.
CSCup06433	Selection of wrong LFA leads to crash during deletion of LFA.
CSCup09950	Fortitude: Traceback seen after Call terminated from call gen on Cicsco IOS XE Release 3.13S.
CSCup10028	AnyConnect VPN client fails due to invalid or no cert to authenticate.
CSCup10266	IPv6 default route not getting redistributed into EIGRP without metrics.
CSCup10447	Memory leak seen @ ATOM VC Binding.
CSCup10746	NXT: CGR1240 12V supply does provide proper output voltage at all.

Identifier	Headline
CSCup12631	WebGUI displays WSMA errors on some pages after TACACS authentication.
CSCup13575	SSTE: router crash due to BGP process when tunnel interface is shutdown.
CSCup14537	Router crash occurs in cnfsm_exec as instance pointer looks to be stale.
CSCup14682	Router crash after loading firmware from flash.
CSCup16613	Multiple flows in MMA resulting in both app and DSCP-based TCs.
CSCup18062	Memory leak in __be_crypto_get_DN_printable_info.
CSCup18295	IOSd segfault at sipSPIDTMFDigitPopulateActiveRecord.
CSCup20254	Ignore path_pro cutover following > 255 mpls-tp cutover.
CSCup21524	Crash after switchover with PPPoA load.
CSCup22590	Multiple Vulnerabilities in IOS/IOSd OpenSSL.
CSCup23792	Loss of service group configuration after router reload.
CSCup27059	MK2: MPLS TE going down after SSO.
CSCup27613	SSTE: NHRP: leaks at rn_inithead_var_keylen_new AND BGP process crash.
CSCup31575	HTTPS: Back to Back POST request fails.
CSCup32044	Processor memory leak in CCSIP_SPI_CONTRO with DTMF negotiation.
CSCup33759	ISIS IPv6 distribute-list filter not removed when interface deleted.
CSCup34371	GETVPN GM stops decrypting traffic after TEK rekey.
CSCup36750	3945E crash when registering phones.
CSCup39915	Interface configuration changes from DHCP to static IP after interface flap.
CSCup39674	Traceback is observed during cleanup in VERIFY_SVPLS_TP_FLOOD in RSP2.
CSCup40511	SSTE: Unable to boot Cisco ISR routers with Cisco IOS Release 15.4(3)M image version 154-2.20.M0.3.
CSCup41482	TCP snd window stuck with CEF enabled.
CSCup43333	Crash due to avl_search.
CSCup46714	The logging source-interface command does not work.
CSCup47507	IPv4 IPv6 summary CLI under ISIS is not synced on standby.
CSCup47628	SS, TS:NBAR:For App-based policy, perf mon doesnt learn the flows.
CSCup48742	Cisco ISR and ASR Routers crashed in scp process when the ip dhcp database scp command is configured.

Identifier	Headline
CSCup49206	Conditional default route getting flushed on peer performing SSO on UUT.
CSCup49636	CENT: Channl BW accounted incorrectly with fast-monitor enabled.
CSCup49670	Watchdog timeout crash related to sip inspect.
CSCup51813	XR Control Packets and Data packets getting dropped on rekeying.
CSCup52988	InterAS OptionB ASBR does not allocate label for VPNv4 prefix.
CSCup53969	Crash seen when trying to fetch OCSP Response.
CSCup58405	Router crash at __be_sipAppProbeHeaderPresence.
CSCup59760	The show mpls fwding tabel vrf slot command takes longer time & stuck at terminal.
CSCup61011	Changes in "license boot module" CLI causes failure.
CSCup67317	max_chunk_size validation incorrect in function chunk_create_inline().
CSCup69780	Packets exceeding when rate-limit is applied on ATM PVC.
CSCup70579	Malformed mDNS packet may cause a reload.
CSCup72039	DMVPN/VTI/GRE: Phase 2 fails with PROPOSAL_NOT_CHOSEN when two phases 1.
CSCup74775	CS6 Traffic in the Wrong Policy Map Class.
CSCup75166	PPP over L2TP Dialer GETVPN fails encryption and decryption.
CSCup80613	IOSd crash after issuing show lisp all command with clean running-configuration.
CSCup82109	CENT: hub MC CENT_COMMUNICATION_THREAD crash@cent_get_instance_by_id.
CSCup83949	IOS crashes when large traffic sent during SSLVPN rekey.
CSCup84251	Crash on purge_app_tlv_and_notify.
CSCup84620	The show crypto isakmp stats command should print dropped IKE messages.
CSCup86849	Authenticating interface MAC address entry missing from mac-address-table.
CSCup88307	PQII_PRO_UEC interfaces may stay up/down or unable to pass traffic.
CSCup89513	Router crash at dual_routeupdate.
CSCup90021	IKEv1 periodic DPDs sent per IPsec SA, not per IKE.
CSCup93442	IPv6 multicast: RPF neighbor not selected for J/P messages.
CSCup94123	ISSU: Cisco IOS XE Release 3.11S and 3.12S: pseudowire VC status and LDP are down after RP SWO.
CSCup95191	ENH: IKEv2 reconnect should use original EAP id for acct.

Identifier	Headline
CSCup96299	IPv6 Multicast RIB entry refer to wrong distance.
CSCup99438	MK2: tun_decap_tinfo_control subsys missing in DFC.
CSCuq02180	Crash seen in utah router after the call starts.
CSCuq03904	C2921 Router with EHWIC-4SHDSL-EA crashes with Cisco IOS 155-0.10.T image.
CSCuq04869	Cisco ASR 903 Router: ISIS routes lost from RIB on SSO, 5 min after NSF completion.
CSCuq05240	CUBE consumes Reinvite when m=audio line has more than 1 codec.
CSCur07571	Processor memory leak with MRCP_Client at cc_api_get_call_active_entry.
CSCur08096	Cisco IOS Release 15.4(3)M: 2911 crashed@perf_mon_async_get_next_mon_ctx with invalid access.
CSCur10697	No records with WAASX enabled on DMVN CRYPTO tunnel.
CSCuq13985	BGP Router process crash due to received BGP withdraw.
CSCuq15237	GM hangs while applying show crypto gdoi command.
CSCur15263	Vios crash in ipsec because wrong parameters passed to event trace write.
CSCuq15266	Crash while authenticating SUBCA certificate.
CSCur15562	Hardware Entropy Collection leaks crypto packets.
CSCuq15789	CLI "License save bootflash:" etc options missing on MCP_dev.
CSCuq16071	PSS sanity: applying shaping policy to interface, app disconnects.
CSCur16336	Cisco ISR 3945E Router crashes immediately after running the traffic.
CSCur16988	C888-K9 is not working with Cisco IOS155-0.25.T image.
CSCuq17828	Cisco ASR 1000 Series Routers: Radius Accounting fails when using EDCSA certs.
CSCur18226	Virtual-service exception on request timeout.
CSCuq18492	GETVPN - COOP loses KS reachability during IKE rekey.
CSCuq19149	mVPN - ME3800 acting as 'P' router is causing PIM adj to drop between PEs.
CSCuq20912	CFM error using wrong local MEP ID.
CSCuq21971	Router crashes when DNS server is configured and used on it.
CSCuq24354	GETVPN KS rekeys without pol changes may cause IOS XE GMs to re-register.
CSCuq23966	Expected sessions not found while testing NGWO+ZBFW inspect action.
CSCuq24984	In rare high BGP update churn case, show ip bgp x.x.x.x may crash.

Identifier	Headline
CSCup26595	The Address and Control field of PPP headers are removed unexpectedly.
CSCuq29503	SYS-6-STACKLOW with Flow Exporter enabled.
CSCuq30899	SIP GW reloads after dtmf path confirmation.
CSCuq32792	Unexpected reload of CUBE with AQM+HA involved.
CSCur33622	Spurious Access found in show alignment.
CSCuq35209	BGP advertising incorrect Link Local IPv6 address.
CSCuq36941	Issue with MRCPv2 tcpip with VXML Cicso ISR 3945E Router gateway.
CSCuq37527	Unexpected exception to CPU: vector D, PC = 0x256438.
CSCuq37551	White noise on SRTP-RTP call when placed on hold and resumed.
CSCuq39109	Memory Fragmentation due to IP SLA.
CSCuq41982	Crash at login %SYS-6-STACKLOW: Stack for process LOCAL AAA running low.
CSCup42385	High Availability fails due to bulk synch failure with encrypted password.
CSCuq43266	VXML gateway crash @msw_recog_start process.
CSCuq45187	L2VPN: Local access circuit DOWN after RELOAD.
CSCuq46955	IOS ISR AM IKEv1 does not work with RSA-signature.
CSCuq47386	ISSU: Cisco IOS XE Release 3.12S to XE313S: Standby RP failed to come up at loadversion on RP upgrade.
CSCuq49073	LDP breaks after defaulting an interface.
CSCuq50496	%SYS-3-CPUHOG: L2ISIS Upd Overlay1.
CSCuq51439	Cisco ASR 903 Routers: ISIS LSP generation delayed after receiving BFD down event.
CSCuq51504	Cloud Web Security: IOS HTTPS Stale Sessions after receiving Client HELLO.
CSCuq53017	RSP1/RSP2: crash on bootup with invalid core file: 21st mcp_dev.
CSCuq56948	BGP: import from LISP with route-map wrong match applied.
CSCuq59361	O2 crashes if enabling debug voice translation for SIP calls.
CSCuq62392	CENT MMA montior wrong hierarchy displayed after attach perf-monitoring.
CSCuq64180	cdp_get_intf_cdp_tx_count always return zero.
CSCuq68196	Cisco ASR 1000 Series Routers RP crash with Segfault at Xfering_SetupDone.
CSCuq70263	Cisco ASR 1000 Aggregation Services Routers: SIP CUBE Enterprise GW crashes due to memory chunk corruption.

Identifier	Headline
CSCuq76439	Cube adds inactive in SDP during resume operation (RTP-SRTP call).
CSCuq77051	Out of IDs when configuring xconnect.
CSCuq77550	TEK remaining lifetime not updated on GM.
CSCuq83441	BGP L2VPN uses default static next-hop instead of outgoing interface-address.
CSCuq86382	FLEXVPN IKEv2 auto reconnect | virtual-access | VRF lost | anyconnect.
CSCuq86513	Cisco ASR 1000 Series Routers: Crash in packet classification
CSCuq88419	GETVPN Suite-B: Adding permit to KS ACL, wrong policy on GM & Sec KS.
CSCuq90747	IKEv2 Virtual-Access Interface goes down when using HSRP VIP.
CSCuq91400	UTM Unable to access UTM Page from LAN with NTLM auth.
CSCuq93406	IOSd crash on Ethernet CFM receiving a malformed CFM frame.
CSCuq94226	cell-hwic command not found in 4G platforms.
CSCuq94877	IKEv2 AnyConnect session reconnect fails on multiple reconnects.
CSCuq95663	CENT: small increase in IPC still exists in longevity.
CSCuq98449	PFRv3 CPUHOG in IP RIB Update after link flap.
CSCur11563	Router might crash when removing NBAR PD from an interface.
CSCur36860	Cisco IOS XE Release 3.14S and Cisco IOS Release 15.5(1)T: GETVPN KS Crash during Rekey for multicast.

PART III

Related Documentation

Related Documentation

The following sections describe the documentation available for Cisco IOS Release 15.5M&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 149
- Notices, on page 149
- Communications, Services, and Additional Information, on page 151

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 release. Under the release section, you can compare releases side by side to display both the features unique to each software release and the features in common.

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http://tools.cisco.com/ITDIT/CFN/

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