



## **Release Notes for Cisco NCS 4201 and Cisco NCS 4202 Series, Cisco IOS XE Bengaluru 17.4.x**

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### **Americas Headquarters**

Cisco Systems, Inc.  
170 West Tasman Drive  
San Jose, CA 95134-1706  
USA  
<http://www.cisco.com>  
Tel: 408 526-4000  
800 553-NETS (6387)  
Fax: 408 527-0883

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# CHAPTER 1

## Introduction

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- Note** Explore the [Content Hub](#), the all new portal that offers an enhanced product documentation experience.
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This document provides information about the IOS XE software release for the Cisco NCS 4201 and Cisco NCS 4202 beginning with Cisco IOS XE Release 3.18SP.

- [Documentation Updates, on page 1](#)
- [Cisco NCS 4201 and Cisco NCS 4202 Overview, on page 2](#)
- [Feature Navigator, on page 2](#)
- [Hardware Supported, on page 2](#)
- [Determining the Software Version, on page 3](#)
- [Bundled FPGA Versions, on page 3](#)
- [Limitations and Restrictions on the Cisco NCS 4201 and Cisco NCS 4202 Series, on page 4](#)
- [Additional References, on page 5](#)

## Documentation Updates

### Rearrangement in the Configuration Guides

- The following are the modifications in the CEM guides.
  - Introduction of the Alarm Configuring and Monitoring Guide:  
This guide provides the following information:
    - Alarms supported for SONET and SDH, and their maintenance
    - Alarm profiling feature

- Auto In-Service States for cards, ports, and transceivers

For more information, see the [Alarm Configuring and Monitoring Guide, Cisco IOS XE 17 \(Cisco NCS 4200 Series\)](#).

- Rearrangement of Chapter and Topics in the Alarm Configuring and Monitoring Guide:
  - The Auto In-Service States Guide is now a chapter inside the Alarms Configuring and Monitoring Guide.
  - Alarms at SONET Layers topic in the following CEM guides, is added to the Alarms Configuring and Monitoring Guide:
    - 1-Port OC-48/STM-16 or 4 port OC-12/OC-3 / STM-1/STM-4 + 12 port T1/E1 + 4 port T3/E3 CEM Interface Module Configuration Guide
  - The Alarm History and Alarm Profiling chapters are removed from the below CEM Technology guides, and added into the Alarm Configuring and Monitoring Guide:
    - 1-Port OC-48/STM-16 or 4 port OC-12/OC-3 / STM-1/STM-4 + 12 port T1/E1 + 4 port T3/E3 CEM Interface Module Configuration Guide
- Configuring IEEE 802.3ad Link Bundling is now available in [Ethernet Channel Configuration Guide, Cisco IOS XE 17 \(Cisco NCS 4200 Series\)](#).

## Cisco NCS 4201 and Cisco NCS 4202 Overview

The Cisco NCS 4201 and NCS 4202 Network Convergence Systems are full-featured, compact one-RU high converged access platforms designed for the cost-effective delivery of TDM to IP or MPLS migration services. These temperature-hardened, high-throughput, small-form-factor, low-power-consumption systems are optimized for circuit emulation (CEM) and business applications. NCS 4201 and NCS 4202 chassis allow service providers to deliver dense scale in a compact form factor and unmatched CEM and Carrier Ethernet (CE) capabilities. They also provide a comprehensive and scalable feature set, supporting both Layer 2 VPN (L2VPN) and Layer 3 VPN (L3VPN) services in a compact package .

For more information on the Cisco NCS 4201 Chassis, see the [Cisco NCS 4201 Hardware Installation Guide](#).

For more information on the Cisco NCS 4202 Chassis, see the [Cisco NCS 4202 Hardware Installation Guide](#).

## Feature Navigator

You can use Cisco Feature Navigator to find information about feature, platform, and software image support. To access Cisco Feature Navigator, go to <http://www.cisco.com/go/cfn>. An account on cisco.com is not required.

## Hardware Supported

NCS4201 is a fixed router and does not have any field replaceable units.

The following table lists the hardware supported for Cisco NCS 4202 chassis.

Chassis	Supported Interface Modules	Part Numbers
NCS 4202	8 port T1/E1 CEM Interface Module	NCS4200-8E1T1-CE
	1 port OC-48/STM-16 or 4 port OC-12/OC-3 / STM-1/STM-4 + 12 ports T1/E1 + 4 ports T3/E3	NCS4200-3GMS
	8-Port 1GE RJ45 and 1-Port 10GE SFP+ module	NCS4200-1T8LR-PS

## Determining the Software Version

You can use the following commands to verify your software version:

- Consolidated Package— **show version**
- Individual sub-packages—**show version installed** (lists all installed packages)

### ROMMON Version

- NCS4201—15.6(44r)S
- NCS4202—15.6(43r)S

## Bundled FPGA Versions

The following are HoFPGA versions bundled in the IOS:

- NCS4201—0X00030015
- NCS4202
  - BFD—0X0003001B
  - Netflow—0X00020008

The following is the CEM FPGA version:

- NCS4202—0x10050071

The following are HoFPGA versions bundled in the IOS for 17.4.2 release:

- NCS4201—0X00030016
- NCS4202—0X0003001e

The following is the CEM FPGA version:

- NCS4202—NA

# Limitations and Restrictions on the Cisco NCS 4201 and Cisco NCS 4202 Series



**Note** The error message "PLATFORM-1-NOSPACE: SD bootflash : no space alarm assert" may occur in the following scenarios:

- Any sector of SD Card gets corrupted
- Improper shut down of router
- power outage.

This issue is observed on platforms which use EXT2 file systems.

We recommend performing a reload of the router. As a result, above alarm will not be seen during the next reload due to FSCK(file systems check) execution.

However, If the error persists after a router reload, we recommend to format the bootflash or FSCK manually from IOS.

- The **default** *command-name* command is used to default the parameters under that interface. However, when speed is configured on the interface, the following error is displayed:

```
Speed is configured. Remove speed configuration before enabling auto-negotiation
```

- VCoP/TSoP smart SFPs are not supported.
- Virtual services should be deactivated and uninstalled before performing replace operations.
- IPsec is not supported on the Cisco NCS 4201 and Cisco NCS 4202 routers.
- On Cisco NCS 4202 Series, the following restrictions apply for IPsec:
  - Interface naming is from right to left. For more information, see the [Cisco NCS 4200 Series Software Configuration Guide, Cisco IOS XE 17](#).
  - Packet size greater than 1460 is not supported over IPsec Tunnel.
  - Minimal traffic drop might be seen for a moment when higher rate traffic is sent through the IPsec tunnels for the first time.
  - IPsec is only supported for TCP and UDP and is not supported for SCTP.
- One Ternary Content-Addressable Memory (TCAM) entry is utilized for Segment Routing Performance Measurement. This is required for the hardware timestamping to function.
- Before installing the Cisco IOS XE Amsterdam 17.3.1, you *must* upgrade the ROMMON to version 15\_6\_43r\_s or higher to avoid bootup failure. This is applicable to Cisco NCS 4202 routers. This workaround is not applicable to devices installed with ROMMON version 15.6(9r)S.
- While performing an auto upgrade of ROMMON, only primary partition is upgraded. Use the **upgrade rom-mon filename** command to upgrade the secondary partition of the ROMMON. However, the router can be reloaded during the next planned reload to complete the secondary ROMMON upgrade.



- For Cisco IOS XE Amsterdam 17.3.x, a minimum disk space of 2 MB is required in the boot flash memory file system for a successful ROMMON auto upgrade process. For a disk space lesser than 2 MB, ROMMON auto upgrade fails and the router reboots.
- Some router models are not fully compliant with all IETF guidelines as exemplified by running the pyang tool with the lintflag. The errors and warnings exhibited by running the pyang tool with the lint flag are currently non-critical as they do not impact the semantic of the models or prevent the models from being used as part of the toolchains. A script is provided, **check-models.sh**, which runs pyang with lint validation enabled, but ignoring certain errors. This allows the developer to determine what issues may be present.

As part of the model validation for this Cisco IOS XE Amsterdam 17.3.1 release, "LEAFREF\_IDENTIFIER\_NOT\_FOUND" and "STRICT\_XPATH\_FUNCTIONS" error types are ignored.

- Starting with Cisco IOS XE Bengaluru Release 17.5.1, secondary ROMMON partition is also auto upgraded after a successful primary ROMMON partition upgrade is complete. You can reload the router at the next planned reload to complete the secondary ROMMON upgrade.
- For Cisco IOS XE Amsterdam Release 17.3.x, Cisco IOS XE Bengaluru Release 17.4.x, and earlier, the secondary ROMMON partition is not auto upgraded. You must manually upgrade it using the **upgrade rom-mon filename** command.
- Starting with ROMMON release version 15.6(43r)S, ROMMON version is secure. Once the ROMMON version is upgraded, it cannot be downgraded to a non-secure ROMMON version.
- Secure ROMMON is supported from Cisco IOS XE Amsterdam Release 17.3.1 onwards. However, it is compatible with all the releases.

Any future secure ROMMON upgrade or downgrade is only possible from Cisco IOS XE Amsterdam Release 17.3.1 onwards.

- Any non-secure FPGA bundled releases moving to Cisco IOS XE Bengaluru Release 17.3.x or future releases can result in an FPGA upgrade and a ROMMON upgrade. If FPGA upgrade happens parallelly with the ROMMON upgrade, you can only expect a single reload. If FPGA upgrade gets delayed and happens post ROMMON upgrade, two reloads are expected to complete both the upgrade processes. This is followed by a successful bootup of the target release image.

## Additional References

### Field Notices and Bulletins

- Field Notices—We recommend that you view the field notices for this release to determine whether 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](http://www.cisco.com/en/US/support/tsd_products_field_notice_summary.html).
- Bulletins—You can find bulletins at [http://www.cisco.com/en/US/products/sw/iosswrel/ps5012/prod\\_literature.html](http://www.cisco.com/en/US/products/sw/iosswrel/ps5012/prod_literature.html).

### MIB Support

To view supported MIB, go to <http://tools.cisco.com/ITDIT/MIBS/MainServlet>.

**Accessibility Features in the Cisco NCS 4201 and Cisco NCS 4202 Series**

For a list of accessibility features in Cisco NCS 4201 and Cisco NCS 4202 Series, see the [Voluntary Product Accessibility Template \(VPAT\)](#) on the Cisco website, or contact [accessibility@cisco.com](mailto:accessibility@cisco.com).

All product documents are accessible except for images, graphics, and some charts. If you would like to receive the product documentation in audio format, braille, or large print, contact [accessibility@cisco.com](mailto:accessibility@cisco.com).



## CHAPTER 2

# What's New for Cisco IOS XE Bengaluru 17.4.x

This chapter describes the new hardware and software features that are supported on the Cisco NCS 4201 and Cisco NCS 4202 Series routers.

For information on features supported for each release, see [Feature Compatibility Matrix](#).

- [What's New in Hardware for Cisco IOS XE Bengaluru 17.4.2, on page 7](#)
- [What's New in Software for Cisco IOS XE Bengaluru 17.4.2, on page 7](#)
- [What's New in Hardware for Cisco IOS XE Bengaluru 17.4.x, on page 7](#)
- [What's New in Software for Cisco IOS XE Bengaluru 17.4.x, on page 7](#)

## What's New in Hardware for Cisco IOS XE Bengaluru 17.4.2

There are no new hardware features in this release.

## What's New in Software for Cisco IOS XE Bengaluru 17.4.2

There are no new software features in this release.

## What's New in Hardware for Cisco IOS XE Bengaluru 17.4.x

There are no new hardware features in this release.

## What's New in Software for Cisco IOS XE Bengaluru 17.4.x

Feature	Description
<b>1 port OC-48/STM-16 or 4 port OC-12/OC-3 / STM-1/STM-4 + 12 port T1/E1 + 4 port T3/E3 CEM Interface Module</b>	
<a href="#">IPv6 VLAN Handoff and 4k iMSG scale</a>	VLAN handoff supports IPv4 and IPv6 local connect and cross connect.

Feature	Description
<a href="#">STS1E Framed SAToP Support on IMA3G</a>	Support on clock recovery on STS-1e controller for framed SAToP on the following modes: <ul style="list-style-type: none"> <li>• T3</li> <li>• CT3</li> <li>• VT-15</li> </ul>
<b>Carrier Ethernet</b>	
<a href="#">Enabling the Bridge Domain Interface</a>	This feature allows you to configure the <b>platform bdi enable-state up</b> global command.
<b>IP Routing: BFD</b>	
<a href="#">BFD over G8032 and Multi EFP BDI</a>	Scale numbers for BFD and hardware offload are enhanced for the ASR 900 Cisco RSP2 module.
<b>IP Multicast: Multicast</b>	
<a href="#">Multicast SLA Measurement with MLDP</a>	Display of aggregated egress multicast stats for BDI interfaces on Head node, which is part of the MLDP core is supported.
<b>IP SLAs</b>	
<a href="#">Configurable User-Defined and EMIX Packet Size</a>	This feature allows you to configure user-defined and Enterprise traffic (EMIX) packet sizes. Use the following commands to configure user-defined and EMIX packet sizes: <ul style="list-style-type: none"> <li>• <b>packet-size user-defined</b> <i>packet size</i></li> <li>• <b>packet-size emix sequence</b> <i>emix-sequence</i> [<b>u-value</b> <i>u-value value</i>]</li> </ul>
<a href="#">EMIX Sequence Enhancement</a>	This feature enables SAT based support for configurable EMIX traffic pattern in FPGA-based SAT.
<b>Layer 2</b>	
<a href="#">Enhanced Ethernet Data Plane Loopback</a>	The Ethernet data plane loopback feature is enhanced to avoid control packets getting dropped. The enhancement supports internal shaper configuration, when terminal ELB session is activated or deactivated to rate the limit the ELB session traffic.  The enhancement is applicable only on internal loopback.
<b>MPLS Basic</b>	

Feature	Description
<a href="#">Re-optimization with Tunnel Bandwidth Modification on Flex-LSP Protect Path</a>	<p>This feature supports Make Before Break (MBB) functionality and thus ensures there is no traffic loss when a MPLS Flex LSP tunnel runs on protect LSP (if working LSP goes down) and the tunnel bandwidth is modified.</p> <p>When the working LSP comes up, use the following command to manually switch from the working to protect LSP:</p> <p><b>mpls traffic-eng switch tunnel <i>tunnel-ID</i></b></p>
<b>Segment Routing</b>	
<a href="#">L2VPN over SR-TE Preferred Path</a>	This feature allows you to configure an SR policy as the preferred path for a VPWS or VPLS pseudowire. VPWS or VPLS pseudowires between same PEs can be routed over different SR policies based on the requirements. Prior to this release, you could only steer the traffic using the SR policy for routing IPv4 traffic to a destination pseudowire (over IGP or BGP-LU).
<a href="#">PCE Initiated SR Policy with OSPF Autoroute Announce</a>	This feature enables a steering mechanism in which IGP's automatically use the policy for destination's downstream of the policy end point.
<a href="#">Segment Routing Flexible Algorithm support for TI-LFA uLoop Avoidance, SID Leaking, and ODN with Auto-Steering</a>	<p>This feature allows you to compute Loop Free Alternate (LFA) paths, TI-LFA backup paths, and Microloop Avoidance paths for a particular Flexible Algorithm using the same constraints as the calculation of the primary paths for such Flexible Algorithms, for IS-IS. See <a href="#">Calculation of Flexible Algorithm Path</a>.</p> <p>Inter-area leaking of Flexible Algorithm SIDs and prefixes and selectively filtering the paths that are installed to the MFI are also supported. See <a href="#">Flexible Algorithm Prefix-SID Advertisement</a> and <a href="#">Installation of Forwarding Entries for Flexible Algorithm Paths</a>.</p>
<a href="#">Telemetry (Model-Based Telemetry and Event-Based Telemetry) Support for Performance Measurement</a>	<p>This feature enables Model-Based Telemetry (MDT) and Event-Based Telemetry (EDT) that allow the data to be directed to a configured receiver. This data can be used for analysis and troubleshooting purposes to maintain the health of the network.</p> <p>The <b>sr_5_label_push_enable</b> SDM template is mandatory for this feature to function.</p>

### Other Supported Features

- Complete YANG Model for Ethernet EVC Configuration – An Ethernet Virtual Connection (EVC) is defined by the Metro-Ethernet Forum (MEF) as an association between two or more user network interfaces that identifies a point-to-point or multipoint-to-multipoint path within the service provider network. An EVC is a conceptual service pipe within the service provider network.

YANG Data Models—For the list of Cisco IOS XE YANG models available with this release, navigate to <https://github.com/YangModels/yang/tree/master/vendor/cisco/xe/1741>.

Revision statements embedded in the YANG files indicate if there has been a model revision. The README.md file in the same GitHub location highlights changes that have been made in the release.

- Complete YANG Model for CFM Configuration – Ethernet Connectivity Fault Management (CFM) is an end-to-end per-service-instance Ethernet layer operations, administration, and maintenance (OAM) protocol. It includes proactive connectivity monitoring, fault verification, and fault isolation for large Ethernet metropolitan-area networks (MANs) and WANs.

YANG Data Models—For the list of Cisco IOS XE YANG models available with this release, navigate to <https://github.com/YangModels/yang/tree/master/vendor/cisco/xe/1741>.

Revision statements embedded in the YANG files indicate if there has been a model revision. The README.md file in the same GitHub location highlights changes that have been made in the release.



## CHAPTER 3

# Caveats

This chapter describes open and resolved severity 1 and 2 caveats and select severity 3 caveats:

- The “Open Caveats” sections list open caveats that apply to the current release and may apply to previous releases. A caveat that is open for a prior release and is still unresolved applies to all future releases until it is resolved.
- The “Resolved Caveats” sections list caveats resolved in a specific release, but open in previous releases.

The bug IDs are sorted alphanumerically.



**Note** The Caveats section includes the bug ID and a short description of the bug. For details on the symptoms, conditions, and workaround for a specific caveat you must use the Bug Search Tool.

- [Resolved Caveats – Cisco IOS XE Bengaluru 17.4.2, on page 11](#)
- [Resolved Caveats – Cisco IOS XE Bengaluru 17.4.2 - Platform Independent, on page 12](#)
- [Open Caveats – Cisco IOS XE Bengaluru 17.4.2, on page 12](#)
- [Resolved Caveats – Cisco IOS XE Bengaluru 17.4.1, on page 12](#)
- [Open Caveats – Cisco IOS XE Bengaluru 17.4.1, on page 14](#)
- [Cisco Bug Search Tool, on page 14](#)

## Resolved Caveats – Cisco IOS XE Bengaluru 17.4.2

Caveat ID Number	Description
<a href="#">CSCvu99207</a>	Router: Incorrect STP forwarding state programming in platform.
<a href="#">CSCvw82303</a>	Support for multicast route leaking in native multicast
<a href="#">CSCvw85511</a>	BDI interface is causing high cpu usage.
<a href="#">CSCvw93411</a>	Interface counters not incrementing after 2yrs, 22+ weeks on Router
<a href="#">CSCvx01642</a>	PPPoE tag circuit-id remote-id should not be trusted if the interface is in untrusted mode
<a href="#">CSCvx24923</a>	HS1 2.43 FPGA commit for reload/brom select issue

Caveat ID Number	Description
<a href="#">CSCvx41010</a>	Failed to marshal xcvr_sync message: Bad address
<a href="#">CSCvx55831</a>	Ingress Policy with set qos-group action is creating extra TCAM entry with match on Egress Policy
<a href="#">CSCvx99501</a>	Wrong snmp traps are generated for high voltage threshold violations
<a href="#">CSCvr43362</a>	NCS 4202: Fan speed control measures for overheating router

## Resolved Caveats – Cisco IOS XE Bengaluru 17.4.2 - Platform Independent

Caveat ID Number	Description
<a href="#">CSCvv79677</a>	Router crashed after BGP flaps
<a href="#">CSCvx19209</a>	ISIS crash in isis_sr_tilfa_compute_protection
<a href="#">CSCvx26650</a>	On configuring route tag under ISIS, TI-IFA is not forming repair path

## Open Caveats – Cisco IOS XE Bengaluru 17.4.2

There are no Open caveats for this release.

## Resolved Caveats – Cisco IOS XE Bengaluru 17.4.1

Caveat ID Number	Description
<a href="#">CSCvk22965</a>	Bulk License "Out of Compliance" support
<a href="#">CSCvs34482</a>	ISSU is not working on Cisco ASR 900 RSP2 nodes
<a href="#">CSCvt33153</a>	Traceback is seen with the following message: mroute_stats_update
<a href="#">CSCvt69921</a>	RSP2-128: CMAND core during SSO
<a href="#">CSCvt75327</a>	v1731: Traffic is not seen after performing SSO in Imsg_Mix mode
<a href="#">CSCvt76777</a>	Adj err obj is seen on removing sr-label-preferred
<a href="#">CSCvt78211</a>	A900-IMA3G-IMSG:Serial interface gets blocked after reaching count of 700 for non acr and non pg
<a href="#">CSCvt92428</a>	RSP2-128: Step by Step ISSU CMD is not working



Caveat ID Number	Description
<a href="#">CSCvt93010</a>	Traffic drop is seen after Kernel log messages are seen while shut or no shut on Phy/BDI interfaces
<a href="#">CSCvu06547</a>	Require varbind entSensorseverity along with trap entSensorThresholdNotification
<a href="#">CSCvu13886</a>	v174: Card protection performs shut or no shut on the CPG STS-1e, SLOS alarm is observed on the peer device
<a href="#">CSCvu29991</a>	Historic performance intervals are not present for STS-1e interfaces in the command and SNMP MIB
<a href="#">CSCvu38550</a>	For VCOP configured with type DS3, applique type should be Subrate T3 instead of Channelized T3/T1
<a href="#">CSCvu45472</a>	1-port OC48 1/ STM-16 or 4-port OC-12/OC-3 / STM-1/STM-4 + 12-Port T1/E1 + 4-Port T3/E3 CEM Interface Module:Serial interface gets blocked after reaching count of 700 for acr and pg
<a href="#">CSCvu45833</a>	ISSU: 1612-173: CEM Ckt is stuck at Setup Failed
<a href="#">CSCvu51472</a>	Support for SAToP payload 64 byte and dejitter 2 ms in LOTR IMs
<a href="#">CSCvu59602</a>	17.3.1-with transform-set esp-aes complete traffic drop seen after doing clear crypto session
<a href="#">CSCvu66126</a>	OC-192 APS group is stuck with signal Fail condition
<a href="#">CSCvu78801</a>	PPPoE VSA tags get overwritten at each PPPoE IA
<a href="#">CSCvu83291</a>	Cylon_mgr memory leak is observed due to QoS policer
<a href="#">CSCvu89908</a>	Crash is observed while doing clear crypto session soak run
<a href="#">CSCvu95940</a>	Egress QoS policy configuration is missing on PoCh member link flap
<a href="#">CSCvu92363</a>	SSD: harddisk is full but received %PLATFORM-1-NOSPACE: bootflash : no space alarm assert
<a href="#">CSCvu97954</a>	MAC flaps are observed when using VPLS over backup pseudowire configuration
<a href="#">CSCvu97978</a>	XE BIT : Cisco ASR 900 RSP2 node is crashed with core generation in 16.12 throttle
<a href="#">CSCvv16454</a>	Traffic failure occurs due to MPLS ECMP load-balancing in one of the labelled path
<a href="#">CSCvv24059</a>	RSP2-128 mgr crash is noticed on Cisco ASR 900 RSP when EMPLSINTD is exhausted
<a href="#">CSCvv31617</a>	e2e circuit does not ping, serial interface is up and line protocol is up
<a href="#">CSCvr43362</a>	NCS 4202: Fan speed control measures for overheating router

## Open Caveats – Cisco IOS XE Bengaluru 17.4.1

Caveat ID Number	Description
<a href="#">CSCvv87440</a>	Clock class 6 is advertised immediately on T-GM connection restore
<a href="#">CSCvv72192</a>	When IMA2Z IM, XFP and SFP+ are present and then XFP is removed, LED still shows as green
<a href="#">CSCvw34109</a>	PTP RX failure is observed due to LSMPI buffer exhaustion

## Cisco Bug Search Tool

[Cisco Bug Search Tool](#) (BST), the online successor to Bug Toolkit, is designed to improve effectiveness in network risk management and device troubleshooting. You can search for bugs based on product, release, and keyword, and aggregates key data such as bug details, product, and version. For more details on the tool, see the help page located at <http://www.cisco.com/web/applicat/cbsshelp/help.html>