



Release Notes for Cisco Security MARS Appliance 5.3.2

Revised: November 7, 2008, OL-15308-01



Note

We sometimes update the printed and electronic documentation after original publication. Therefore, you should also review the documentation on Cisco.com for any updates.

These release notes are for use with the Cisco Security Monitoring, Analysis, and Response System (MARS), Version 5.3.2 running on any supported Local Controller or Global Controller as defined in [Supported Hardware, page 2](#). They provide the following information:

- [Introduction, page 1](#)
- [Supported Hardware, page 2](#)
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Introduction

Version 5.3.2 is now available as an upgrade of 5.3.1 of your software release in support of the second generation MARS Appliance models as identified in [Supported Hardware, page 2](#).



Caution

Do not attempt to apply 5.3.x versions to MARS 20, 20R, 50, 100, 100e, 200, GC, or GCR models. It is supported exclusively by the models listed in [Supported Hardware, page 2](#).



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Registered SMARTnet users under the can obtain version 5.3.2 from the Cisco support website at:
<http://www.cisco.com/cgi-bin/tablebuild.pl/cs-mars>

Supported Hardware

Cisco Security MARS Version 5.3.2 supports the following Cisco Security MARS Appliance models:

Local Controller Appliances

- Cisco Security MARS 25R (CS-MARS-25R-K9)
- Cisco Security MARS 25 (CS-MARS-25-K9)
- Cisco Security MARS 55 (CS-MARS-55-K9)
- Cisco Security MARS 110R (CS-MARS-110R-K9)
- Cisco Security MARS 110 (CS-MARS-110-K9)
- Cisco Security MARS 210 (CS-MARS-210-K9)

Global Controller Appliances

- Cisco Security MARS GC2R (CS-MARS-GC2R-K9)
- Cisco Security MARS GC2 (CS-MARS-GC2-K9)

New Features

In addition to resolved caveats, this release includes the following new features:

- [Wireless LAN Controller Support, page 2](#)
- [Miscellaneous Changes and Enhancements, page 2](#)
- [New Vendor Signatures, page 3](#)

Wireless LAN Controller Support

Cisco Secure MARS 5.3. x supports the collection, parsing, and analysis of SNMP security traps generated by Cisco Wireless Controller, version 4.x. devices. In addition, MARS includes this event data in new and existing reports and rules. Support for Cisco Wireless Access Points is enabled via Cisco Wireless LAN Controller, v. 4.1.171.0, which forwards SNMP traps to the MARS Appliance for processing. See important note in [Upgrade to 5.3.2, page 5](#).

Miscellaneous Changes and Enhancements

The following changes and enhancements exist in 5.3.2:

- **New Activate Button and Activation Scheduler**

The Activate button now turns red when a configuration change requires activation. Previously, there was no change in the color of the button. Additionally, a scheduler daemon can be configured from the GUI to automatically execute activations. Further information on the activate button and scheduling daemon are available at the following URL:

http://www.cisco.com/en/US/docs/security/security_management/cs-mars/5.3/user/guide/local_controller/netsum.html#wp1062605

- **Support for Custom Signature Definitions in Cisco IPS.** Cisco IPS 6.0 enables you to define custom signatures for Cisco IPS devices. In 5.3.2, you can map that signature to a MARS event type so that an inspection rule in MARS fires when that signature is detected. To do so, you must define an XML file that maps between the custom signature and the event type in MARS as well as manually update the Local Controller from the **Admin > System Setup > IPS Signature Dynamic Update Settings** page.
- **Global Controller-to-Local Controller Communication Enhancements.** Enhancements include the following:
 - Topology-sync performance improvement
 - Report Results performance
 - Incidents/Firing Events performance
- **Enhanced Cisco Device Support:**
 - IOS 12.3, 12.4(11) T-T4
 - PIX and ASA 7.0.7, 7.2.2, 7.2.3, and 8.0.
 - Cisco IPS 6.0 (IDSM/2, IPS 4270, and ASA-IPS SSM 10/20 support)
 - FWSM 3.1.4, 3.1.6, and 3.2
- **Enhanced 3rd-Party Device Support.**
 - Juniper IDP 3.x via IDP management server (3.0, 3.1)¹
 - Juniper IDP 4.x via NSM (4.0, 4.1)²
 - Symantec AntiVirus 10.x (10.1, 10.2)
- **Update to intrusion prevention, and intrusion detection, and vulnerability assessment signature sets.** This release includes new vendor signatures, updating the 3rd-party signature support. For more information on the updates, see [New Vendor Signatures, page 3](#)
- **Bug fixes.** For the list of resolved issues, see [Resolved Caveats - Release 5.3.2, page 15](#).

New Vendor Signatures

The following table describes the most recent signatures supported for each product or technology:

Revised in 5.3.2	Product	Signature Version Supported
Intrusion Prevention and Detection Signatures		
Yes	Cisco IDS 4.0, Cisco IPS 5.x, Cisco IOS 12.2	Current through S304 signature release.
Yes	Snort NIDS 2.6.1	Current through the September 4, 2007 signature release Latest signature mapped: 12360.

1. See important note under [Upgrade to 5.3.2, page 5](#).

2. See important note under [Upgrade to 5.3.2, page 5](#).

Revised in 5.3.2	Product	Signature Version Supported
Yes	ISS RealSecure Network Sensor 6.5 and 7.0, and ISS RealSecure Server Sensor 6.5 and 7.0	XPU 27.090 Release date: October 9, 2007
No	McAfee IntruShield NIDS 1.8 McAfee Network Intruvert v 2.1.9.104	2.1.68.5 Release date: June 12, 2007
No	McAfee Entercpt HIDS 6.x	Current through the August 21, 2007 signature release.
No	CheckPoint Application Intelligence (VPN-1 NG with Application Intelligence R55)	Current through the September 6, 2007 signature release
No	Netscreen IDP 2.1	Signature version: 2.1 r7. Release date: March 10, 2007
Yes	Enterasys Dragon 6.x, 7.x	Current through the October 12, 2007 signature release.
Yes	Symantec NIDS, v 4.0	Signature package: 88 Release date: October 7, 2007
No. EOS.	Symantec Manhunt 3.x (See Symantec NIDS, v 4.0.)	3.4.3 Update 59 Current through the May 24, 2007 signature release.

Vulnerability Scanner Signatures

Yes	Qualys QualysGuard 3.x, 4.7.161-1	Current through the October 16, 2007 signature release.
Yes	E-Eye, Retina Scanner Vulnerability Software, version 5.6 ¹	Current through the October 15, 2007 signature release.
Yes	Foundstone, version 4.x	Current through the October 15, 2007 signature release.
Yes	Common Vulnerabilities and Exposures (CVE) Database	Current with the October 15, 2007 definition update.

1. eEye REM 1.0 is supported in 4.2.x.

Upgrade Instructions

The MARS upgrade packages are the primary vehicle for major, minor, and patch software releases. As administrator of the MARS Appliance, you should check the upgrade site regularly for patch upgrades. In addition to addressing high-priority caveats, patch upgrade packages update system inspection rules, event types, and provide the most recent signature support.

For detailed instructions on planning and performing an upgrade or install, refer to [Checklist for Upgrading the Appliance Software](#) in the *Install and Setup Guide for Cisco Security MARS 5.x*.

Important Upgrade Notes

To ensure that the upgrade from earlier versions is trouble free, this section contains the notes provided in previous releases according the release number. Please refer to the notes that pertain to the release you are upgrading from and any releases following that one.

General Notes

The MARS Appliance performs a file system consistency check (fsck) on all disks when either of the following conditions is met:

- If the system has not been rebooted during the past 180 days.
- If the system has been rebooted 30 times.

The fsck operation takes a long time to complete, which can result in significant unplanned downtime when rebooting the system after meeting a condition above. For example, a MARS 50 appliance can take up to 90 minutes to perform the operation.

Upgrade to 5.3.2

The upgrade is from 5.3.1 to 5.3.2. The following important notes exist for this upgrade:

- **Release-Note for CSCsk19730/CSCsk12130**

If you've edited a system rule on a Global Controller, you may encounter one of two conditions where the rules on the Global Controller are out of sync with those on the Local Controller.

Symptom: The edited rule in the Global Controller disappears from the list of rules on the Local Controller. (CSCsk12130)

Condition: The user edited a rule on the Global Controller and then upgraded to a different version of the MARS system software and then added of a new Local Controller to the Global Controller.

Symptom: A rule that was edited in the Global Controller looks as if it is an empty rule in the Local Controller and be inactive. (CSCsk19730)

Condition: This occurs under in some cases where a Local Controller is added to a newly upgraded Global Controller.

Work Arounds: If the Local Controller is deleted from and re-added to the Global Controller under x.3.2, the issue should resolve itself. However, in conditions with a large topology or many custom rules, we recommend contacting technical support for a work around that avoids the need to delete and re-add the Local Controller.

Another possible work around if the number of edited rules are small is to edit and make further changes to the rule and activate. In this case, the issue should be resolved for that rule.

- **Upgrade of IOS 12.3 and 12.4 devices.** In previous releases, these devices were supported under the IOS 12.2 release when defining the device type in the MARS web interface. After you upgrade to 5.3.2, the next discovery of such a device will automatically upgrade the version to its correct value.

For example, an IOS 12.4 device is added to MARS 5.3.1 as 12.2 and after the upgrade to 5.3.2, when the discovery occurs for that device, the device type is automatically updated to IOS 12.4. The same is true for devices that are running IOS 12.3. However, if you have not enabled device discovery, use the Change Version feature to change between IOS 12.2, 12.3, and 12.4.

- **Wireless LAN Controller Support is restricted to the 5.3.x train.** To enable support for wireless access points via the Cisco Wireless LAN Controller, you must use the 5.3.2 or later software, which also restricts the appliance models that can be used.
- **Juniper/NetScreen IDP 3.x and 4.x Support is incomplete.** While device support has been added, the signature/data work portion of these devices will be provided in a future release of MARS software.

- **Renaming of QualysGuard 3.x device type.** During the upgrade, any QualysGuard devices defined under Security and Monitoring Devices will changed their device type from QualysGuard 3.x to QualysGuard ANY.

Upgrade to 5.3.1

Beginning with the 4.3.1 and 5.3.1 releases, the dynamic IPS signature updates (if enabled) is an aspect of the version of software running on a MARS Appliance. Therefore, in addition to running the same MARS software versions on the Global Controller and Local Controller, the IPS signature version must match or the communications fail.

In a Global Controller-Local Controller deployment, configure the dynamic signature URL and all relevant settings on the Global Controller. When the Global Controller pulls the new signatures from CCO, all managed Local Controllers download the new signatures from the Global Controller.

In addition, CSCsk90015 states that any reporting device representing a Cisco ACS 3.x device that exists prior to the 5.3.1 upgrade is deleted during the upgrade. To resolve the issue after upgrade, you must the remove the reporting device from the host and re-add that device again as Cisco Secure ACS 3.x.

An example process is as follows:

1. Click **Admin > Security and Monitor Devices**, select the host with Cisco ACS 3.x as a reporting application and click **Edit**.
2. Select the **Reporting Applications** tab, and then blank link and click **Remove**.
3. After removing the blank link, re-add Cisco Secure ACS 3.x application to that host and click **Activate**.

Upgrade to 5.2.8

The upgrade is from 5.2.7 to 5.2.8. No important notes exist for this release.

Upgrade to 5.2.7

The upgrade is from 5.2.4 to 5.2.7; no 5.2.5 or 5.2.6 releases exist.

Required Upgrade Path

When upgrading from one software version to another, a prerequisite version is always required. This prerequisite version is the minimum level required to be running on the appliance before you can upgrade to the most recent version. [Table 1](#) identifies the upgrade path that you must follow to reach the minimum level required to upgrade to current version.

Table 1 Upgrade Path Matrix

From Version	Upgrade To	Upgrade Package
5.2.4	5.2.7	csmars-5.2.7.pkg
5.2.7	5.2.8	csmars-5.2.8.pkg
5.2.8	5.3.1	csmars-5.3.1.pkg
5.3.1	5.3.2	csmars-5.3.2.pkg

Documentation Errata

- CSCsl14244. User guide does not discuss role of Nessus in the MARS system.
To determine whether specific incidents are false positives, MARS uses Nessus 2.x GPL plug-ins and custom scripts mapped to specific MARS event types. MARS does not use Nessus to perform vulnerability assessments or related reporting.
- CSCsk77546. Discovery Device with SSH 512 module not supported.
The OpenSSH client used by MARS does not support modulus sizes smaller than 768. For example, you cannot discover a device using a SSH login that has 512-byte key.

Important Notes

The following notes apply to the MARS 5.2.4 and later releases:

- To enable monitoring support of Cisco Secure ACS, you must use pnLog Agent version 1.1 or later. Earlier versions of pnLog Agent will not work with the MARS 5.2.4 and later releases.
- Interfaces ethernet3 and ethernet4 are always down.
- USB keyboard does not work while re-imaging with DVD. Use the PS/2 port for keyboard support.

The following notes apply to the MARS 4.x and later releases:

- The performance of the Summary Page degrades when too many reports are added under My Reports. The smaller the number of reports under My Reports, the faster the Summary page loads. To ensure adequate performance, limit the number of reports to 6. This issue is partially described in CSCse18865.
- Do not to use DISTINCT or SAME in queries, and do not run multi-line queries. If you run such a query, the system time outs after 20 minutes without returning any results. The message “Timeout Occurred” appears instead. You can use DISTINCT and SAME in a Query to create a rule with the Query interface.
- For Symantec AntiVirus, the Symantec agent hostname (AV client computer name) appears in the “Reported User” column of the event data. Therefore, you can define a query, report or rule related to this agent based on the “Reported User” value.
- The False Positive and Query pages (multi-column result format) have changed. You can now query on firing events that triggered false positives within a time interval. Such queries will render events that did not appear on the False Positive page. To ensure performance, the False Positive page only displays false positives from the most recent 10,000 firing events. To view additional false positives, you must perform a query.

The following notes describe new behavior based on the resolution of specific caveats. Be sure to check the upgrade notes for each release for important notes on data migration.

Reference Number	Description
CSCsc50636, CSCsc50652	<p><i>Issues:</i> Backend IPS process runs at 99% CPU when pulling large IP Logs</p> <p>The backend IPS process reaches 1GB in memory used when pulling IP Logs. The process names depending on the version on MARS that is running:</p> <ul style="list-style-type: none"> • In version 4.2.1 and earlier, the process names are pnids50_srv and pnids40_srv. • In version 4.2.2 and later, the process is named csips. <p>These related issues, are specific to pulling IP logs from Cisco IDS/ IPS devices. The symptom is that the backend IPS service consumes the system resources on the MARS Appliance. As an improper configuration of the sensor can significantly degrade the sensor performance as well as that of MARS.</p> <p><i>Workaround:</i> Ensure that settings for IP log creation on the sensor limit the size of the IP log (in terms of number of bytes or number of packets captured). Also, verify that IP packet logging is enabled only for signatures of interest and not for all signatures.</p> <p>In addition, the following release-specific maximums are enforced:</p> <ul style="list-style-type: none"> • In 4.2.1, a 100 file maximum is enforced for the log file queue when the MARS is configured to pull IP log files. Therefore, it may not pull every IP log file. In addition, the complete IP Log file may not be pulled, instead, data is pulled from the file starting 5 minutes before the alert was generated through the end of the file. • In 4.2.2, a 1,000 file maximum (up from 100 in 4.2.1) is enforced for the log file queue when the MARS is configured to pull IP log files. The complete IP Log file may not be pulled, instead, data is pulled from the file starting 1 minute (down from 5 minutes in 4.2.1) before the alert was generated through the end of the file. And last, 100KB is the maximum IP log size that can be pulled from a MARS Appliance.
CSCpn02175	<p><i>Issue:</i> Data computed or stored on a standalone MARS while in standalone mode will not be transferred to a Global Controller. Only data computed on an Local Controller that is currently monitored by a Global Controller will be pushed up.</p>
CSCpn02073	<p><i>Issue:</i> After renaming a cloud, clicking the cloud again causes an error.</p> <p><i>Workaround:</i> Refresh the page before clicking a renamed cloud.</p>
CSCpn01270	<p><i>Issue:</i> The free-form search may not work for the following devices:</p> <ul style="list-style-type: none"> • Check Point Opsec NG FP3 • Cisco CSA, 4.0 • Cisco, IDS, 3.1 and 4.0 • ISS, RealSecure, 6.5 and 7.0 • Entercept Entercept, 2.5 and 4.0 • IntruVert IntruShield, 1.5
CSCpn00247	<p><i>Issue:</i> The automatic time-out feature built into the GUI does not work when the Summary page is left open with automatic refresh selected.</p> <p><i>Resolution:</i> Please log out of the system when you are no longer using it.</p>

Caveats

This section describes the open and resolved caveats with respect to this release.

- [Open Caveats - Release 5.3.2, page 9](#)
- [Resolved Caveats - Release 5.3.2, page 15](#)
- [Resolved Caveats - Releases Prior to 5.3.2, page 21](#)

For your convenience in locating caveats in Cisco's Bug Toolkit, the caveat titles listed in this section are drawn directly from the Bug Toolkit database. These caveat titles are not intended to be read as complete sentences because the title field length is limited. In the caveat titles, some truncation of wording or punctuation may be necessary to provide the most complete and concise description. The only modifications made to these titles are as follows:

- Commands are in **boldface** type.
- Product names and acronyms may be standardized.
- Spelling errors and typos may be corrected.



Note

If you are a registered cisco.com user, view Bug Toolkit on cisco.com at the following website:

<http://www.cisco.com/support/bugtools>

To become a registered cisco.com user, go to the following website:

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

Open Caveats - Release 5.3.2

The following caveats affect this release and are part of supported devices or compatible products:

Reference Number	Description
CSCsf31401	MARS query does not highlight rules inside any policy group named Local
CSCsl27574	FWSM Syslog message FWSM-6-302013 with wrong Real and Mapped IP

The following caveats affect this release and are part of MARS.

Reference Number	Description
CSCsl55201	java.lang.ArrayIndexOutOfBoundsException on LC x.3.2
CSCsl49809	Generated XML Email alert is missing ReportedUser element
CSCsl41494	Network_group object with DB ID of 0 (zero) causes system error in GUI
CSCsl31143	MARS restore process fails on 4.3.1
CSCsl20820	Summary page can take a long time to load/rebuild
CSCsl20087	Pink box error due to finding null interface as next hop address
CSCsl14244	The User guide is not talking anything about the Nessus version

Reference Number	Description
CSCsl11647	Pnupgrade hanging at the last step - Updating database schema
CSCsl04692	Reported user is not parsed for windows event id: 680
CSCsk98498	CS-MARS: Web Agent 1.1 Not Functional
CSCsk92543	CS-MARS: Custom Column Report Device Column Blank .
CSCsk88570	MARS: received email reports contain blank chart
CSCsk85267	pnparser crashes related to CheckPoint Opsec library
CSCsk85174	MARS - 5 tuple information missing from raw IDS events from NFS archive
CSCsk80647	pnupgrade is not displaying next fsck scenario
CSCsk79362	MARS: GC doesn't populate Case field for incidents
CSCsk71762	XML Parsing in SVG topology reference without authentication
CSCsk70744	Upgrade OpenSSL version
CSCsk59030	MARS OpenSSH GSSAPIDelegateCredentials vulnerability
CSCsk51397	Adding many incidents to the case slows down the MARS gui performance
CSCsk49710	User Guide - NetScreen device configuring syslog screenshot incorrect
CSCsk39645	GUI doesn't check duplicate agent ip address when adding application
CSCsk27999	Java error when clicking on Configuration Information page
CSCsk27276	MARS: Isolated Networks in Topology due to 'ip unnumbered' Interface
CSCsk26308	pink error when listing devices while scalability script running
CSCsk21865	LC/GC comm broken due to java io stream header corruption exception
CSCsk12489	operator role can not resubmit report
CSCsk11592	ids didn't get monitored networks from msfc if discover ids first
CSCsk08028	Real time multi column query is not working.
CSCsk04282	MARS failed to import 1000 hosts vulnerablilty information
CSCsk03186	Error during discovery of Netscreen SSG5 w/ ScreenOS 5.0
CSCsk03022	After LC was deleted from GC, GC-LC communication goes on forever
CSCsk02989	GC is not usable when LC has lots of deleted devices
CSCsk02261	XPATH is change to find open ports information from QG 5.0 xml file
CSCsj96747	Networks and Groups propagated 2 LC are deleted after its removed fr GC
CSCsj96592	Adding LC with version lower than 4.3.1 should version mismatch err
CSCsj90875	Inline/Batch query: result mismatch on Matched Rule Ranking
CSCsj90505	Inline/Batch query not match on NAT connection report
CSCsj89299	MARS unable to discover ASA through ssh using DES
CSCsj87207	GUI cannot show the full topology because of constant process crash
CSCsj71119	Loading devices from seed file didn't populate interface info
CSCsj69985	Syslogrelay is accepting same IP for both source and collector
CSCsj68087	MARS Discovery fails to take the context information of ASA from 7.2-7.0
CSCsj67626	Raw message query type schedule report missing some raw message events

Reference Number	Description
CSCsj67037	pnparser / postfire / process_event_srv crashed in func test
CSCsj66955	scheduled discovery is scheduled at wrong time
CSCsj63552	PN log agent should check ACS config before allowing user to App name
CSCsj60272	Special characters should not be allowed in device name(MARS)
CSCsj57812	Mars unable to parse CP R61 Hide NAT behind gateway config
CSCsj57315	Mars doesn't parse and store CP R61 User/Client/Session auth rules
CSCsj51240	Paging does not work for report right after adding it to a case.
CSCsj42467	LC not showing up on certificate page
CSCsj41168	Error when trying to accept new sensor certificate
CSCsj31990	pnparser: to avoid flooding log file
CSCsj29441	rpcclient2 abnormal under 1050 windows devices env
CSCsj28376	Box may not be able to reboot after recovery, under certain conditions
CSCsj23845	CS-MARS Action filter doesn't work if not associated with incidents
CSCsj20697	LC did not get added to GC so unable to generate syslogs.
CSCsj15512	Update reports when handling deletion of hosts
CSCsi96921	IPSDynamicSigUpdate attempts to connect to CCO with no credentials
CSCsi93594	Pnparser stops processing each time it tries to load the topology
CSCsi93283	Mismatch between query and report results for source port ranking.
CSCsi91734	Mismatch in results between query and report for All Matching Events
CSCsi89837	MARS does not recognize SNMP traps from IPS device
CSCsi86420	with 60% event rate capacity, query events ranked by time takes 20 min
CSCsi76255	Custom log template pattern messed up when add a LC to GC
CSCsi69310	security hole happens if users close browsers without click logout
CSCsi68126	For multiple context mode, inbound/outbound error reports are incorrect.
CSCsi65960	L2 mitigation has problem finding path
CSCsi65713	Index needs to be removed for the pn_report_result table
CSCsi62384	The performace test kills all the process during the weekend run
CSCsi52731	mars reboots w/o asking for confirmation after user clicked cfg update
CSCsi51999	Edit SW based Application device need submit twice
CSCsi50024	IPS is not visible in Global Zone Hot Spor Graph
CSCsi49474	Mismatch results between query and report (custom column)
CSCsi49419	The application hangs, while getting the results for a query.
CSCsi49396	Mismatch in results between query & report when query based on desti. IP
CSCsi49330	Mismatch in results between query and report when query is based on user
CSCsi49285	Mismatch in results between query and report.
CSCsi44427	Enh: Make HTML report output the same as CSV output
CSCsi29398	CS-Mars does mitigate to the proper endpoint

Reference Number	Description
CSCsi18757	CS-MARS - Request to have the "ssldump" command in the MARS CLI.
CSCsi15769	NLS_LANG variable should be updated in environment
CSCsi13100	gui.sh dev build makes different JBOSS web.xml than make release
CSCsi11312	pn_incident_log and pn_report_log should be archived
CSCsi07186	User can input unsupported characters in AAA device name
CSCsi03658	CS-MARS - IOS Discovery via Telnet/SSH fails with \$hostname in banner
CSCsh97060	MARs says it can delete up to 500 at a time but only lets you delete 50.
CSCsh94361	Events with port 0 cannot be filtered using port in query/reports/rules
CSCsh89445	GUI allow users create rule without putting rule name
CSCsh73553	USB Keyboard does not work while re-imaging with DVD
CSCsh58754	Lots of oracle files on HD can cause upgrade failure, succeeds on retry
CSCsh57236	Unknown Reporting Device was missing on GC's DB pn_device table
CSCsh52537	Repeated upgrades of oracle fills hard drive
CSCsh44351	CSM multiple hostname matches failed to return multiple hosts
CSCsh41920	No warning for Invalid entry to Query maximum number of rows returned.
CSCsh35953	MARS unable to add similar named contexts from different fwsm
CSCsh14454	server.log can grow unbounded with in a single day
CSCsh00013	Case Management: history does indicate change of ownership
CSCsg98026	pnlogagent causes acs log files to add (01) to file name
CSCsg91816	Query for ICMP port 0 shows UDP/TCP results
CSCsg82600	some syslog results in unknownDET with 'Activate
CSCsg80475	All incidents purged if event-session partition table is corrupted.
CSCsg79246	Getting a blank window when adding a device in IE 7
CSCsg76958	FR: Recognize either CIPS network variables or have CSMARS net variables
CSCsg75303	GC: If chose LC specific device in rule, it doesn't pass to LC correctly
CSCsg73786	Devices should not be added to MARS if Discovery is unsuccessful
CSCsg70386	SSL uses key less than 1024
CSCsg64119	rule's keyword editor treats NOT as binary rather than unary
CSCsg54313	ORA-01654: unable to extend index .
CSCsg47022	CS-MARS - Incorrect Start Times on Retrieved Raw Message Files
CSCsg38029	high CPU usage in pnparser due to checkpoint NAT rules
CSCsg26352	Getting a internal server error when trying to access a incident on GC
CSCsg20987	CSMARS DTM sdf files are sent with invalid format
CSCsg14082	Default query Changed in system defined report
CSCsg13767	SuperV doesn't detect/restart processes
CSCsg08166	Unable to discover ASA 7.0 Error:There is no Error Log for this Device
CSCsf99844	wrong values for current connections using CLI "show resource usage

Reference Number	Description
CSCsf99767	provide encoding selection for adding agent to device/host
CSCsf96634	MARS cannot discover new route added to a router
CSCsf31228	Unknown device events for FWSM 3.1 FWSM-3-717001 till FWSM-4-717031
CSCsf31207	Mars doesn't support new/changed FWSM 3.1.3 maintenance release syslogs
CSCsf31121	Exception in Case Management code when deleting a report
CSCsf27568	keyword search query can't display big-5 encoding raw msg
CSCsf26715	Inaccuracy in per-context memory utilization for multi-context devices
CSCsf15781	Database table columns do not match with the archive file columns
CSCsf12825	GUI should prevent edit/delete of system-context PIX/ASA 7.0 devices
CSCsf11651	Device resource monitor incorrectly samples 5 sec CPU instead of 5 min
CSCsf06141	high CPU usage in pnparser sessionization
CSCsf06019	Generic Router UI must support multiple reporting applications
CSCse99039	Redundant tab add available module under Device type Cisco IOS 12.2
CSCse98029	Occasionally corrupted event data enters into MARS database
CSCse91636	MARS - not all columns seen in CSV reports generated using custom column
CSCse85972	Unresolved symbol in Java build (though didnot stop building)
CSCse82042	Change the Device Type Version for FWSM
CSCse82022	Unable to view reports starting with #sign in csv format
CSCse78738	FWSM ifspeed incorrectly reported as 0 for per-context vlan interfaces
CSCse78089	Unable to upgrade CS-Mars via GUI
CSCse54808	The time stamp shown by the pndbusage command is incorrect.
CSCse51642	IPlanet Unknown Device Event Type Parsing Error
CSCse45884	LLV query causes client CPU to go to 100%
CSCse42953	CS-Mars - unable to show L2 path when source and destination in same net
CSCse38565	CSV-Re-importing Symantec AV client CSV doesn't work
CSCse38356	Windows pulling gets stuck for one IP due to invalid content in evt log
CSCse34600	configurable SNMP timeout support
CSCse34407	Query Tab -> Multi column query returns wrong results.
CSCse33688	No Event Types listed under Cisco Switch-IOS 12.2
CSCse33172	Invalid id used in DbClient::retrieve() 0
CSCse31722	Cloud toggle only works on first page of reporting devices
CSCse27948	pink box when do query - ORA-01555: snapshot too old exception
CSCse18816	UI takes 99% CPU, hanging browser and slowing system while expanding all
CSCse17936	5K Lines Custom Query fails
CSCse13038	CS-Mars - learning of McAfee agents with invalid names
CSCse10945	Summary Page Graphs Spontaneously Change Displayed Size (w/ multi-head)
CSCse09127	Failed load from csv returns incorrect status

Reference Number	Description
CSCse03237	Changes made to GC network groups are not propagated to active LC rules
CSCse03097	CheckPoint LEA record comes to MARS later and later
CSCse00626	IP Management -> device group displays hosts only.
CSCsd95582	Both successful/failed mitigation reports show same results
CSCsd92916	CS MARS - Raw Ip Addresses in Custom Query email have incomplete URL
CSCsd89457	Incorrect handling of time range for rules that fire periodically.
CSCsd86896	Clicking the clear button when editing the query type doesn't work.
CSCsd84350	CS-MARS/CSM: Credentials change on CSM side not checked.
CSCsd74681	OS 4.0: FlexLM License
CSCsd61749	pnrestore doesn't restore all of the system config
CSCsd06302	device name with single quote causes pink box
CSCsc97963	Netscreen logical interfaces (vlan intf) not discovered
CSCsc95831	log messages of MARS processes stopped being written into backend log
CSCsc90480	MARS Incident notification options are not configurable
CSCsc78878	snort signature 2570 incorrectly mapped
CSCsc59363	Need improvement to GUI for multi-line rules
CSCsc15590	MARS not including all events in a report, query returns events fine
CSCsc04484	LC Rule/Report list shows empty after deletion of GC group
CSCsb80082	Deleting a LC w/o exchanging certificates doesn't set mode to Standalone
CSCsb77550	CSV-re import of CSA and Symantec agents unsuccessful
CSCsb67871	Got System Error In GC After Re-installed New Version In LC
CSCpn03057	Copied rules have shortened year in front, which is confusing (ex. 0
CSCpn03052	JBoss 'OutOfMemoryError ' when accessing Management/Event Management
CSCpn02976	GC:LC - Communication issues after time zone change
CSCpn02973	Not able to downgrade a security analyst to Notification only user
CSCpn02968	Network group search is not working for "All IP addresses
CSCpn02901	GC/LC, rule does not display user <cxu> but allows such cfg
CSCpn02869	Rules editing: changing entry for select window pulldown after error
CSCpn02804	Replay History feature not working correctly
CSCpn02688	GC/LC: gc lc displayed diff time rage for the same global report
CSCpn02666	Batch Query Results with one item returned -> no data in graph in em
CSCpn02656	System error occurs when # of java connections runs out
CSCpn02653	No way to specify "!Keyword" without a good "keyword
CSCpn02574	Time change on system causes GC/LC communication problem
CSCpn02566	rebooting mars while it is upgrading cause the box not accessible
CSCpn02558	"Agent" didn't be removed correctly
CSCpn02549	JavaScript Error from ViewReport when clicking Edit/Clear

Reference Number	Description
CSCpn02511	need to fix errors in affected os
CSCpn02470	Server csv function could not handle special characters in password
CSCpn02414	GC/LC user rule is too long to fit into a page if keyword is long
CSCpn02410	rule was not fired because Oracle log used upper case for user
CSCpn02398	XML escaping errors in Keyword Search in Rule
CSCpn02385	Applied \$TARGET01 for GC Query Source IP resulted in "resultCounter
CSCpn02383	IIS parsing must be separated from Windows log
CSCpn02251	License: Upon entry of 100 license onto 100e, need to restart pnpars
CSCpn02177	Docs: Filesystem Check after 22 reboots
CSCpn02061	Saving .csv files under WinXP SP2 results in .htm extension
CSCpn02011	discovery for special passwd 1"1 failed
CSCpn01438	Batch Query: Under high load, some batch queries may not complete
CSCpn01398	Unable to shutdown an interface
CSCpn01382	Security device type hosts don't show up in IP management
CSCpn01319	pnreset command does not cause reboot
CSCpn01219	Cleanup script for invalid /etc/qpage.conf entries
CSCpn01134	Cloud name input box accepts invalid characters
CSCpn01045	Archiving: Need better error message
CSCpn00908	"Domain" in Configuration page - no use
CSCpn00586	nasl message text needs to be changed
CSCpn00455	Graph doesn't refresh when a cloud is renamed
CSCpn00293	using TAB in editing fields
CSCpn00212	Graphgen crashes when there are many non-existent devices
CSCpn00183	Adding devices w/o "Activate" can cause "messy" graph
CSCpn00173	Nessus should check pre-NAT address instead of Post-NAT address
CSCpn00166	Inconsistent behavior for "ANY" in Rules and Queries

Resolved Caveats - Release 5.3.2

The following customer found or previously release noted caveats have been resolved in this release.

Reference Number	Description
CSCs148979	MARS : Need Documentation stating that only snmp v1 is supported
CSCs139524	jboss memory sizing per platform missing .
CSCs135398	LC report result data referencing incidents is never sent to GC
CSCs132835	DOC: Add explicit statement for IPS sig update config with GC-LC
CSCs124378	MARS - Clicking on "reported user" criteria in query causes System error

Reference Number	Description
CSCsl11773	MARS IPS Dynamic Updates Documentation needs link to zip file downloads
CSCsl10993	Parsing errors for three IOS 12.2 Events
CSCsl08765	WLAN: Description for "Info/WLAN/RogueFound" is incomplete
CSCsl08727	LLV stop unexpectedly
CSCsl08704	GC on-demand report failed to submit on LC automatically
CSCsl07983	Need to support old version of IOS NAT Syslogs as well.
CSCsl07577	MARS: IPS Dynamic Update 'Test Connectivity' does not test tcp port 80
CSCsl06821	pnreset doesn't clear ips custom signatures downloaded on the mars
CSCsl03810	ASA Syslog 313004 not being parsed properly
CSCsl01412	GUI license page not updated when Gen-2 LC is added to GC
CSCsl00314	Backward compatibility to be supported for CSM3.1/3.0.1
CSCsk98605	CS-MARS: Webagent 1.1 Documentation is Inconsistent
CSCsk96714	GC query/reports with WLAN data couldn't be finished
CSCsk96622	IPS events not displayed correctly
CSCsk94852	Stack trace info needed when Topo Sync terminates abnormally
CSCsk93773	Various Configuration Sync issues related to rule
CSCsk93622	25R janus.conf unchange after license upgrade
CSCsk91536	LC stuck in Synchronizing state due to ArrayIndexOutOfBoundsException
CSCsk90015	Cisco ACS 3.x not accessible after upgrade to MARS x.3.1
CSCsk89973	Incorrect oracle.tgz being used in install image packaging
CSCsk86450	Unknown Device Event type for IPACCESSLOGRL
CSCsk85643	port 1590 is open .
CSCsk83600	javascript error when discovering IOS devices
CSCsk83003	Memory Leak when CSM icon is displayed in the LLV
CSCsk80770	patch - syslog related to the custom signature insert/update is not gen
CSCsk80633	MARS device is performing fsck after x reboots or x amount of days
CSCsk78925	Do not highlight activate button on Report Re-Submit.
CSCsk78881	IPS Custom Sigs not sync'd from LC to GC
CSCsk76848	WLAN: Add System Rule for Rogue WLAN AP Detected
CSCsk76693	MARS: IPS signature 1225.0 has incorrectly named event type
CSCsk76309	Activate Button doesn't light for LC case mngt related actions
CSCsk75568	hotswap list command accepts all arguments
CSCsk75542	Activate Btn - Activate_LCAuditLog_MyReportsRemove fails
CSCsk75366	Traffic anomaly memory pool size vars inconsistent between M50 and M55
CSCsk74029	Timeout mechanism is missing in the /usr/bin/tzselect script
CSCsk73185	global:pnadmin warning for password remains default on standalone LC .
CSCsk72843	Agent db table LC-GC sync takes too long, eventually renders LC inop

Reference Number	Description
CSCsk72117	HOTSWAP ADD command does not initiate rebuilding process
CSCsk70315	4.3.2/5.3.2 data package issue breaks migration
CSCsk70269	WLAN: MARS reported local host 127.0.0.1 as unknow rep device
CSCsk68277	ASA ICMP ping shows 0 in src/dest/ports but raw message has data
CSCsk68189	need new pn_sys_param CUSTOM_IPS_SIG_VERSION
CSCsk67129	Deleting LC from GC takes too long
CSCsk66332	mars25r allows more than 1 LLV
CSCsk66006	Datawork for 4.3.2/5.3.2
CSCsk65187	Bad error message if device SSH is not configured
CSCsk64944	"show inventory" descr field does not match vendor
CSCsk64703	When deleting LC from GC, GC sometimes keeps LC's certificate
CSCsk63747	CS-MARS Static Routes are not persistent across reboots in 5.2.x .
CSCsk62893	DOC: No support for multiple instances of same app for one device
CSCsk62618	CheckCPU terminatles discover during huge router discovery
CSCsk61145	raid email alert contains invalid model name
CSCsk58189	Symantec10.x:unable to add agent thru seed file
CSCsk57521	Test Connectivity to CSM fails when CSM password contains special chars
CSCsk54941	Adding new Event produces 404 Page Not Found
CSCsk53426	Parsing of few IOS events not happening
CSCsk52262	Test Connectivity to CSM should not be done, when Edit operation is done
CSCsk51253	ADMIN > > Auth Config completion message misspelling
CSCsk51242	Misleading JS error msg in ADMIN > > Authentication Configuration
CSCsk49989	PIX8.0:showing additional device type for common context
CSCsk49311	GUI Memory leak in IE when adding device
CSCsk46865	User password less than 6 digits allowed to be input, on edit password
CSCsk46559	NAT 0 related information is not getting logged in janus_log
CSCsk45754	Maximum Login Failures field should be validated before being submitted
CSCsk45704	User account always display locked
CSCsk45447	LLV backend code floods janus_log with a bogus error
CSCsk45351	LLV broken, Query page problems after 9/11 Activate changes
CSCsk44951	IOSIPS not working under IOS 12.4
CSCsk43710	Gen2 GC miss Gen1 LC's info on the license page
CSCsk43376	JBOSS Log gets CSM-related exceptions doing LLV
CSCsk43353	MARS Java compilation gets deprecation warnings
CSCsk43299	Unable to add a 25R LC to GC2R.
CSCsk43157	LLV the default scrolling speed is fast, need to change to medium
CSCsk42894	Parsing error in Discovering the ASA/PIX80 config with service object

Reference Number	Description
CSCsk42883	Timeout may happen too soon if only click Pause, Resume
CSCsk42805	Statistics backlog creates high CPU condition
CSCsk41641	5 nasl scripts' references need to be removed from bigfiles
CSCsk41585	Pop up message needs to improve for 25/55.
CSCsk39353	Cannot load license on mars-25
CSCsk39250	Datawork merge from 4.3.1/5.3.1 to 432-int-sj/ 532-int-sj respectively
CSCsk39028	MARS need keep full McAfee raw message
CSCsk38866	Need to update compatible versions for x.3.2 release
CSCsk37063	LLV Query Resume button does nothing
CSCsk36566	Symantec AV10.x: Discovery is not happening for agents
CSCsk35748	Activate button not highlighted when changes are made
CSCsk35414	WLAN: AP created dynamically with name AP-<mac> instead of real name
CSCsk34334	'Administrator' word is repeated while clicking on Activate Button
CSCsk33510	source ip, dest ip not being displayed on syslog events from IOSIPS
CSCsk31615	Should not increase the number of failure for AAA server inaccessible
CSCsk29507	IPS process uses too much memory per IPS device
CSCsk29300	Custom Signatures Support
CSCsk27325	KeywordQuerySrv crashed because of thread safety issue of posix regex
CSCsk26202	pnparser crashed in scala. test involv. CSA agent creation & db change
CSCsk20052	Enh:Jboss's ssl implementation need to disable the weak encryptions
CSCsk20047	Enh: Linux kernel level, need to disable icmp timestamp request, reply .
CSCsk19730	Null XML_KEY_VALUE XML causes rule to go inactive on LC/GC sync
CSCsk18348	mars does not sort pnexp, pnimp with other CLIs
CSCsk17861	Mars released DVD contains GUI management source codes
CSCsk17406	No proper Error message on the Mars when CSM is not running.
CSCsk14988	WLAN: All the IPSec event types should be removed
CSCsk14974	WLAN: ET Rogue WLAN AP Removed shd belong to Info/Misc/WLAN grp
CSCsk14364	RAIDInsertSingleDisk case shows "Failed" instead of "Rebuild" HDD status
CSCsk12413	mars25/55 disk partitions are different from the document
CSCsk12355	hotswap remove/add commands produce error message
CSCsk12156	Configuration Sync (GC --> LC) can have parallel threads doing dupe work
CSCsk12130	Editing system rules before upgrading can cause LC/GC sync problems
CSCsk11794	Version Compatibility:-4.3.2 mars with 3.0.1 csm
CSCsk11384	New Zealand Daylight Savings Time need to be patched for mars .
CSCsk10494	Enhance pnarchiver to better handle NFS errors
CSCsk07550	upgrading through GUI is failing for GC when proxy is configured
CSCsk07461	show inventory cmd indicates drive is present when removed

Reference Number	Description
CSCsk07147	"raidstatus" output has no boundary between Model and Serial#
CSCsk06363	System Rule: Resource Issue: CS-MARS should include drop counts events
CSCsk04589	CSM icon should be displayed irrespective of "Test connectivity" is done
CSCsk03722	CS-MARS - Test Connectivity to IDS sensors returns error
CSCsk03040	Cancelling CSM device addition to CS-MARS opens a blank page
CSCsk02544	CSM icon is displayed, when CSM device is not in MARS
CSCsk02326	Error msg is not shown on clicking icon,when CSM is not added properly
CSCsj98713	ASA72 Parsing Error and Missing Incident
CSCsj98613	FWSM 2.3.5 device support.
CSCsj97638	invalid javascript pointer when deleting 500 devices
CSCsj97516	25R installation fails - continues to install 25 image
CSCsj94090	customer parser sets wrong destination port for port string
CSCsj90148	WLAN: more descrip. for WLAN related System Rules
CSCsj90137	WLAN: more descrip. for WLAN related System Report
CSCsj87482	FWSM 3.1.6, safe harbor and 3.2 device support.
CSCsj77485	Merge Wireless code to final Integration branch
CSCsj77473	Switching LC between GCs or pnrset in GC causes synchronization error
CSCsj75209	WLAN: msg obsolete setsockopt SO_BSDCOMPAT pop up console
CSCsj73926	Merging Wireless device support code from Private to Integration Branch
CSCsj73189	IOS and IPS certificates aren't deleted when the device is deleted
CSCsj66838	ASA-6-113015 event prints error msg to janus_log
CSCsj62712	Unknown Device Event Type for some of the ASA 7.2 syslog Messages
CSCsj59006	WLAN: Incorrect Severity for the "Rogue WLAN AP No Longer on Wired n/w
CSCsj58983	WLAN: Incorrect description for Generic/3.3.0 Netstumbler Event Types
CSCsj58925	WLAN:In the event type details,<p> is showing
CSCsj54623	Negative tests for SSL cert storing failing
CSCsj53807	Wrong results for event filter != 'ET group' in scheduled reports/LLV
CSCsj53725	Scheduled Report: Max row returned doesn't work well
CSCsj52332	Support PIX/ASA 7.2.3
CSCsj52322	Support PIX/ASA 7.2.2
CSCsj52313	Support PIX/ASA 7.0.7
CSCsj51858	GC: scheduled user report of RuleGroup return empty result
CSCsj51255	Adding a report to a case does not give the pop up.
CSCsj48774	Db Schema Changes required for MARS and CSM integration
CSCsj44383	WLAN: Interface Information is now showing correct
CSCsj42811	WLAN: AP name mistakenly attach to Domain Name under Case
CSCsj40830	WLAN: Device type should be AP at Mitigation pop up

Reference Number	Description
CSCsj39353	25/55 changes check in
CSCsj39300	WLAN:Severity showing green for "IPSEC Suite Negotiation Failed" event
CSCsj33614	MARS SSH discovery of ASA fails if login banner is set
CSCsj33127	FWSM UDP teardown events are not sessionized properly
CSCsj31276	WLAN: AP type should be shown at Agents
CSCsj31202	WLAN: INCIDENTS> Inactive device shown as Unknown Device
CSCsj25873	WLAN: typo found at Rogue WLAN AP detected.
CSCsj25782	GC changes following LC sync do not auto propagate to other LCs
CSCsj25720	WLAN: 60+ traps shown as "Unknown Device Event Type
CSCsj25656	Support for ASA & PIX for version 8.0
CSCsj20814	WLAN: successful Device Discoery shown Unknown Device
CSCsj20618	WLAN: Path/Mitigation info missing
CSCsj20311	WLAN: inactive reporting device show at Attack Diagram
CSCsj20295	WLAN: no AP name displayed at Reporting Device
CSCsj19164	GC: A Security Analyst cannot add Notification user
CSCsj18990	WLAN: CS-MARS not able to discover re-joined AP
CSCsj12025	Error in PIX/ASA Datawork
CSCsj09557	Improve shared buffer instrumentation and error reporting
CSCsi95074	low-traffic bytes ranking report causes process_inlinerep_srv to restart
CSCsi91594	Maximum report name is limited to 64 characters in the GUI, 255 in DB
CSCsi91545	Changes not saved when editing a rule with maximum length name
CSCsi88055	Case Management simple performance improvements possible
CSCsi77258	failed to delete multiple devices at one shot
CSCsi74756	Supporting AIP SSM-10/-20 6.0
CSCsi74161	Supporting IOS IPS 5.x siganture - 12.4(11)T
CSCsi72821	IDSM 6.0 support
CSCsi70698	LC incorrectly attempting to replicate event based reports to GC
CSCsi70076	Discovery fails when 'password' is part of the login banner
CSCsi54079	Bootes: only one interface is passed from mars to csm server
CSCsi53831	performace test causes all the process restarted .
CSCsi49975	Real-Time (raw events) query limit reached if browser killed or crashes
CSCsi41701	device name becomes null when going back to the General host info tab
CSCsi39792	new IPS 4270 support
CSCsi32553	MARS Client CPU hits 95-100% during Real-Time (raw events) query
CSCsi31357	The functionality of deleting a LC from GC is not working as expected.
CSCsi11963	MARS 4.2.4 not parsing IOS Router NAT properly
CSCsi09350	GC not synching or getting all devices from LC

Reference Number	Description
CSCsi03807	Make DB Changes for IPS Signature Autoupdate
CSCsh82791	LC Database not cleaned correctly if LC reboots during deletion from GC
CSCsh81150	Scalability LC-GC synch prevents GC from communicating with LCs
CSCsh77109	Only LCs in standalone mode can be added to a GC
CSCsh40156	page not found when clicking test connectivity on CSM edit page
CSCsh15701	unable to exchange certificates between LC and GC
CSCsg99820	QueryReportMatch_ProtocolRanking - mismatch on 1 hour results
CSCsg80437	GC: Performance very slow when loading Local Controller Management page
CSCsg75434	If global user deleted while logged into LC, not logged out of LC
CSCsg66824	GC report shows as 'In progress
CSCsg64653	csips does not pull all ipLogs from the sensor
CSCsg57694	system context can be deleted/edited in asa/pix7.0 & 7.2 device
CSCsg56582	Custom parser does not properly parse preNAT / postNAT IP addresses
CSCsg20408	FW-6-SESS_AUDIT_TRAIL Parsing Error
CSCsg04715	GC-LC data not consistent after Topo Sync
CSCsg02045	39 parsing errors for fwsm3.1 syslog
CSCse82017	View HTML option for reports turns back to default report format - csv
CSCse23117	The secret community string is exposed at the DB
CSCse20301	Ciscoization - the self-signed certificate is not updated to a Cisco one
CSCsd53364	CS-Mars - NGX R60A version for Check Point not compatible
CSCsc66295	Got a browser Runtime Error when tried to delete devices in batch
CSCsc30890	CSM query for 'Deny connection-no xlate' SHOULDN'T highlight permit rule
CSCsc22114	ENH - Activate button needs to change color after config change is made
CSCpn03072	GC, incidents from deleted LC still showed up in GC
CSCpn03067	Snort signatures need fixing as they use a non-unique signature ID r
CSCpn02975	Minor problem with "Deleting a user group" screen
CSCpn02972	Deleting Group from IP Management Tab causes only headers to be disp
CSCpn02883	Event management search works only for event description
CSCpn01976	GC:it took too long to push pn_route info from LC to GC
CSCpn01859	LC / GC communication should be limited to times when there is actua
CSCpn01317	More data expected when populating pn_application table

Resolved Caveats - Releases Prior to 5.3.2

For the list of caveats resolved in releases prior to this one, see the following documents:

http://www.cisco.com/en/US/products/ps6241/prod_release_notes_list.html

Product Documentation

For the complete list of documents supporting this release, see the release-specific document roadmap:

- *Cisco Secure MARS Documentation Guide and Warranty*

http://www.cisco.com/en/US/products/ps6241/products_documentation_roadmaps_list.html

Lists document set that supports the MARS release and summarizes contents of each document.

For general product information, see:

<http://www.cisco.com/go/mars>

Obtaining Documentation, Obtaining Support, and Security Guidelines

For information on obtaining documentation, obtaining support, providing documentation feedback, security guidelines, and also recommended aliases and general Cisco documents, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

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