Release Notes for Cisco Multicast Manager 3.2

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Contents

Introduction

Cisco Multicast Manager is a web-based network management application that is designed to aid in the monitoring and troubleshooting of multicast networks. Enterprises running video delivery systems or financial market data applications can greatly benefit from deploying Cisco Multicast Manager. Service providers or cable operators also benefit from:

- Early warning of problems in multicast networks.
- In-depth troubleshooting and analysis capabilities.
- On demand, real-time, and historical reporting capabilities.

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New Features for Release 3.2

Cisco Multicast Manager 3.2 provides the following new features:

- **Show L2 Switches in Forwarding Tree—**CMM 3.2 shows Layer-2 switches in the forward trace in addition to the existing display of routers and video probes. In addition, CMM also supports the ability to automatically discovery Layer-2 devices as part of the multicast discovery process.
- **Show L2 Multicast Receivers in Forwarding Tree—**CMM 3.2 displays multicast receiver information when you click on devices on the Multicast Trace page. This feature is supported for 7600 and 6500 class devices.
- **Automatic L2 Device Discovery—**You can configure CMM 3.2 to automatically discover Layer-2 devices during domain discovery.
- **Unicast Flow Trace for VidMon Devices**—You can now launch a unicast flow trace from the VidMon flow monitoring page. The unicast trace includes the devices that were discovered in the domain.
- **IP Unnumbered Topology**—Provides the ability to handle cases where a customer is using IP unnumbered interfaces to carry multicast traffic.
- **SG Polling Configuration by Range**—With CMM 3.2, you can configure SG polling for a range of Source IP addresses or Group IP addresses.
- **Flexible Device Access for Telnet and SSH** —Improves device access by adding the ability for the user to select both Telnet and SSH access for devices in the domain. SSH v1 and SSH v2 are supported.
- **Support for P2P/P2MP TE Links**—CMM now supports the ability to run a complete multicast trace from a source customer network, through a Point-to-Multipoint Traffic Engineering (PM2MP TE) tunnel to the destination customer network(s). CMM 3.2 provides a new Distributed Network Discovery/P2MP option to discover devices over P2MP TE tunnels.
- **Support for 3750 and 4500 Switches**—Cisco Multicast Manager 3.2 adds support for Cisco Catalyst 3750 Series Switches and Cisco Catalyst 4500 Series Switches.
- **Enhanced VidMon Support**—CMM receives traps from various routers and video probes. CMM 3.2 also supports polling for specific data when *cfmNotifyAlarm* traps are received from VidMon devices, and uses the collected information to generate the necessary metrics.
- **Cisco DCM Support—**Cisco Multicast Manager 3.2 adds support for the Cisco Digital Content Manager (DCM).
- **Displaying Date and Time of Last Successful Login**—Cisco Multicast Manager 3.2 displays to users their last current login time.
- **Disabling of User IDs Not Used for Over 90 Days**—CMM 3.2 disables a user account if it is not used for more than 90 days. The user is not be able to logon anymore and CMM displays the message "Your User ID is disabled."
- **Password Aging**—CMM 3.2 enforces password changes every 60 days. Users are prompted to change their password.
- **Support for VMWare ESXi 4.x**—Cisco Multicast Manager 3.2 supports VMWare ESXi 4.x environments.
- **Trace Using Management IP Address**—In some service provider environments, access to PIM interface may be blocked, which affects CMM traces. With CMM 3.2, you can configure multicast flow trace based on either the PIM neighbor address of a device or the management IP address.

System Requirements

This section describes the system requirements for Cisco Multicast Manager 3.2.

Hardware Requirements

Cisco Multicast Manager can run on Linux systems and on Sun Microsystems systems running Sun Solaris 10.

Disk Space

4-GB or more of free space for CMM application and data.

Processors

The processor requirements for CMM 3.2 are shown in the following sections.

AMD Linux

- Dual, Quad, or 6-Core AMD Opteron processor

Linux-Intel

- Xeon Dual or Quad Core (equivalent or better)

Solaris-SPARC

- Sun UltraSPARC IIIi or better

Memory Requirements

The minimum memory requirements for CMM 3.2 are:

- 4 GB for less than 500 devices
- 8 GB for large Enterprise networks (more than 500 devices)

Swap Space

The CMM host should have twice as much swap memory as RAM. For example, a server with 4 GB of RAM should have 8 GB of swap memory, and a server with 8 GB of RAM should have 16 GB of swap memory.

Operating System Requirements

Linux

CMM 3.2 can run on the following Linux versions:

- Red Hat Enterprise Linux ES/AS 4
- Red Hat Enterprise Linux ES/AS 5

Both 32-bit and 64-bit Linux versions are supported.

CPU Requirements

Linux devices running CMM 3.2 should meet the following CPU requirements:

- Two CPUs with dual core for less than 500 devices
- Four CPUs with four cores for more than 500 devices

Sun Microsystems Servers

CMM 3.2 can run on the following Solaris version:

- Solaris 10

Cisco Multicast Manager supports the following hardware on Sun Microsystems servers:

- Sun Fire V440: Two CPUs with 1.593-GHz UltraSPARC IIIi processors.
  - Up to four cores for less than 500 devices.
  - Eight cores for 500 devices or more.

Note The Solaris X86 version is not supported.

VMWare

- VMWare ESX 3.5
- VMWare ESX 4.0

  CMM supports both the 32-bit and 64-bit versions.

Supported Client Browsers

- Internet Explorer 8.x on Windows XP or Windows 7
- Internet Explorer Version 7.x on Windows XP or Windows Vista
- Internet Explorer Version 6.x on Windows XP
- Firefox 3.6.x on Windows

Note The browser must have Adobe Flash Player installed.

Important Notes

This section contains the following note:

- Vidmon Polling Interval Setting When a Large Number of Flows are Monitored, page 5

Vidmon Polling Interval Setting When a Large Number of Flows are Monitored

The Vidmon Polling Interval setting that is configurable from the **System Configuration->Global Polling Configuration** menu selection specifies the time interval for which Vidmon devices (Cisco 7600 series routers and in ASR 9000 Series (Viking) devices are polled for Cisco Vidmon statistics.

If you are monitoring 1000 or more flows, Cisco recommends that you set the Vidmon Polling interval to 1 min.

Caveats

Table 1 lists the open defects for CMM 3.2.

Table 1 Open Defects in Cisco Multicast Manager, 3.2

CSCto96640	CMM32 LNX Install from DVD ISO gives 'cp: will not create hard link' msg.
	Description: The message `cp: will not create hard link` appears during DVD installation or during ISO installation in Linux.
	Frequency: Always (Occurs on Linux install from DVD or from ISO image only).
	Symptom While installing CMM 3.2 from DVD or from ISO only on Linux, console messages appear:
	`Installing MIBS...`
	`cp: will not create hard link `/usr/local/netman/mmtsys/jre/man/ja_JP.eucJP' to directory `/usr/local/netman/mmtsys/jre/man/ja' Installing support files...`
	Ignore these messages and continue with the installation. CMM will install, and there is no affect on CMM functionality.
	Conditions CMM Linux installation from DVD or ISO.
	Workaround None.

CSCtc74977	Vidmon Diagnostics—Clearing the yellow indicator does not take effect. **Description**: When viewing Vidmon diagnostics, clearing the yellow indicator does not have any effect. **Frequency**: Always. **Symptom** On the Diagnostics > Vidmon page, if a user clicks on a yellow indicator to clear it, the indicator does not change to green and the state value does not change. **Conditions** Occurs when a user tries to clear the yellow indicator. **Workaround** None.

Table 1 Open Defects in Cisco Multicast Manager, 3.2 (continued)

CSCtd83931	The MRoute table is not populated for non-VRF aware devices. **Description**: MVPN Diagnostics does not display Route Targets, Interfaces table and Mroute Table information for non VRF aware devices. **Frequency**: Always. **Symptom** On the Diagnostics > MVPN Diagnostics page, if the user clicks on the link for a non-Virtual Route Forwarding device, the Interfaces table and the Mroute table are not populated with data. **Conditions** Occurs when a user tries to get MPVN data for non-VRF devices. **Workaround** None.
CSCtf83874	Dashboard Graph charts sometimes go blank before an auto-refresh. **Description**: Edit and Submit on the Dashboard graph page sometimes need to be manually refreshed if a manually not refreshed chart results in a blank page before auto-refresh. **Frequency**: Always. **Symptom** Dashboard Graph charts sometimes goes blanks before auto-refresh. **Conditions** This occurs under these conditions: 1. A user selects the **Graphs** tab from the CMM Dashboard and from the pull-down menu in the Graph Type filed, selects **SG**. The display is correct after the initial submission of the graph values. 2. After a period of time, the user changes the value for the and clicks the **Submit** button. For each new submission, the chart goes blank before every refresh. **Workaround** Manually refresh the entire Dashboard page from the browser.
CSCtf90593	Multiple Edit of Warning page configuration gives an error. **Description**: Multiple Edit of Warning page configuration gives an error. **Frequency**: Always. **Symptom** The CMM daemon must be restarted when an Add, Edit, Delete, Enable, or Disable operation is performed on the Warning Page Configuration screen. CMM displays an “HTTP status 404 - Server dispatcher is not available” error. **Conditions** This occurs when the user: 1. Goes to **Administration > Warning Page Configuration**. 2. Performs any type of configuration change. **Workaround** Restart the CMM daemons.

Table 1 Open Defects in Cisco Multicast Manager, 3.2 (continued)

CSCti04669	CPU Threshold validation not working for IOS-XR during CRM baseline creation. **Description**: Under CRM Diagnostics, when creating a routing table baseline for an IOS-XR device with CPU threshold value between 1-100, CMM does not create a baseline. **Frequency**: Always. **Symptom** On **CRM Diagnostics -> Create Baseline**, when a user tries to create a routing table baseline for an IOS-XR device with a CPU threshold value, CMM always displays the message `CPU is above the threshold...` and no baseline is created. **Conditions** This occurs when a user: 1. Chooses **Diagnostics > CRM Diagnostics > Create Baseline**. 2. Tries to create a unicast or multicast baseline for an IOS-XR device with a CPU threshold check. **Workaround** Enter the value '-1' when creating the routing table baseline; CMM then skips the CPU threshold check.
CSCtn17040	Bulk device discovery/rediscovery hangs sometimes. **Description**: Sometimes bulk device multicast discovery/rediscovery of more than 6000 devices using a seed IP address hangs. **Frequency**: Inconsistent. **Symptom** When a user tries to discover or rediscover more than 6000 devices above using a seed IP address, sometimes the discovery hangs. This might be due the to huge discovery log file size. **Conditions** This occurs under the following conditions: 1. User goes to the to Domain Management page or Multicast Discovery page. 2. User starts bulk discovery or rediscovery of 6000+ devices using a seed IP address. Sometimes discovery hangs due to the huge discovery log file size. **Workaround** Go to the */CMMROOT/mmtsys/sys* directory and delete all 'multicastdiscovery.log' and 'multicastdiscovery-status.log' log files, restart the daemons, and proceed with discovery.

Table 1 Open Defects in Cisco Multicast Manager, 3.2 (continued)

CSCtn19263	CRM Baseline Route Polling Historical Report does not work. **Description**: Historical Report does not work in CRM Baseline Route Polling. **Frequency**: Always. **Symptom** If a user configures CRM Baseline Polling and chooses **Historical Reports** to view historical charts, no historical reports are displayed. **Conditions** This occurs under the following conditions: 1. A user configures a CRM Baseline by choosing **CRM Polling > Baseline Route Polling** (the route monitor polling interval is set in Global polling configuration page). 2. The user chooses **CRM Polling > Baseline Route polling > Historical Reports**. No historical reports are generated. **Workaround** None
CSCto83098	Resolve Addresses - DNS check box in domain page needs to be removed. **Description**: CMM does not support DNS lookup for S,Gs in device, hence the **Resolve Addresses - DNS** check box on the System Configuration page needs to be removed. **Frequency**: Always. **Symptom** When a user chooses **System Configuration > Domain Management > Add/Modify Domain** and checks the **Resolve Addresses - DNS** check box. and then starts discovery, discovery takes a long time for DNS lookup, but CMM does not use these DNS names. This needs to be removed from the user interface. **Conditions** This occurs when a user chooses: 1. **Configuration -> Domain Management -> Add/Modify Domain** 2. Checks the **Resolve Addresses - DNS** check box and starts discovery. Discovery takes a long time for DNS lookup, but CMM does not use these DNS names. **Workaround** None

Table 1 Open Defects in Cisco Multicast Manager, 3.2 (continued)

CSCth02925	RP Status and MSDP Status information is not displayed for IOS-XR devices **Description**: RP Status and MSDP Status diagnostics information is not displayed for IOS-XR devices. **Frequency**: Always **Symptom** If a user chooses **Diagnostics > RP Status** and selects an IOS-XR device, then under **Diagnostics > MSDP Status**, IOS-XR devices are not displayed. **Conditions** This occurs when a user: 1. Chooses **Diagnostics > Miscellaneous Diagnostics > RP Status**. 2. Selects an IOS-XR device and clicks **Show**. No data is displayed. 3. Chooses **Diagnostics > Miscellaneous Diagnostics** > MSDP Status. IOS-XR devices are not displayed. **Workaround** None

Product Documentation

Table 2 describes the product documentation available for CMM.

Table 2 CMM Documentation

Document Title	Available Formats
Release Notes for Cisco Multicast Manager 3.2	• On Cisco.com at: http://www.cisco.com/en/US/products/ps6337/prod_release_notes_list.html
Documentation Guide and Supplementary License Agreement for Cisco Multicast Manager, 3.2	• On Cisco.com at: http://www.cisco.com/en/US/products/ps6337/products_documentation_roadmaps_list.html
Installation Guide for Cisco Multicast Manager, 3.2	• PDF on the product CD-ROM. • On Cisco.com at: http://www.cisco.com/en/US/products/ps6337/prod_installation_guides_list.html
User Guide for Cisco Multicast Manager, 3.2	• PDF on the product CD-ROM. • On Cisco.com at: http://www.cisco.com/en/US/products/ps6337/products_user_guide_list.html

Table 2 CMM Documentation (continued)

Document Title	Available Formats
Device Instrumentation Requirements for Cisco Multicast Manager 3.1	• On Cisco.com at: http://www.cisco.com/en/US/products/ps6337/products_device_support_tables_list.html
Cisco Multicast Manager Developer's Guide and API Reference, 3.2	• On Cisco.com at: http://www.cisco.com/en/US/products/ps6337/products_programming_reference_guides_list.html
Open Source Used in Cisco Multicast Manager 3.2	• On Cisco.com at: http://www.cisco.com/en/US/products/ps6337/products_licensing_information_listing.html

Obtaining Documentation, Obtaining Support, and Security Guidelines

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

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