Readme for QoS Policy Manager 4.0.1 on Solaris

This Readme is for CiscoWorks QoS Policy Manager (QPM) 4.0.1 running on a Solaris platform. This Readme contains the following sections:

Description

CiscoWorks QoS Policy Manager 4.0.1 is a maintanence release that enhances the functionality of QoS Policy Manager 4.0 by providing:

- Additional device support
- Bug fixes from the previous release
- Updates to Online Help based on the bug fixes

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Related Documentation

QPM 4.0.1 is a maintanence release after QPM 4.0. The most updated documentation for QPM 4.0.1 and QPM 4.0 can be found on Cisco.com:

- Supported Devices and Software Releases for QoS Policy Manager 4.0.1

  http://www.cisco.com/en/US/products/sw/cscowork/ps2064/products_device_support_tables_list.html
- Installation Guide for CiscoWorks QoS Policy Manager 4.0 on Solaris

  http://www.cisco.com/en/US/products/sw/cscowork/ps2064/prod_installation_guides_list.html
- Getting Started Guide for CiscoWorks QoS Policy Manager 4.0

  http://www.cisco.com/en/US/products/sw/cscowork/ps2064/prod_installation_guides_list.html
- Quick Start Guide for CiscoWorks QoS Policy Manager 4.0.

  http://www.cisco.com/en/US/products/sw/cscowork/ps2064/prod_installation_guides_list.html
- Readme for CS 3.0.5 with QoS Policy Manager 4.0.

  http://www.cisco.com/en/US/products/sw/cscowork/ps2064/prod_installation_guides_list.html
- User Guide for QoS Policy Manager 4.0

  http://www.cisco.com/en/US/products/sw/cscowork/ps2064/products_user_guide_list.html

Device Support

QPM 4.0.1 provides support to the following devices and cards, in addition to the devices supported in QPM 4.0:

- Cisco Carrier Routing System (CRS)
- Cisco 10000 Series Edge Services Router (ESR)
- Cisco 10700 Series Router
- Cisco 12000 Series Gigabit Switch Router (GSR)
- Cat6K line card WS-X6704-10GE
- Cat6K line card WS-X6748-GE-TX
- Cat6K line card WS-X6748-GE-SFP
- VIP card FlexWAN2

Table 1 shows the device OIDs and names of the additional devices supported by QPM 4.0.1.

Table 1 Additional Devices Supported by QPM 4.0.1

Cisco System Device	Device OID	Device Name	Supported OS
Cisco Carrier Routing System (CRS)	1.3.6.1.4.1.9.1.822	Cisco CRS-1 Carrier Routing System 4-Slot Single Shelf	3.3, 3.4
Cisco 10000 Series Router	1.3.6.1.4.1.9.1.437	Cisco 10005 Edge Services Router (ESR)	12.0, 12.1, 12.2, 12.1E, 12.2S, 12.2T
	1.3.6.1.4.1.9.1.438	Cisco 10008 Edge Services Router (ESR)	
Cisco 10700 Series Router	1.3.6.1.4.1.9.1.397	Cisco 10720 Internet Router	
Cisco 12000 Series Gigabit Switch Router (GSR)	1.3.6.1.4.1.9.1.590	Cisco 12006 Router	12.0
	1.3.6.1.4.1.9.1.348	Cisco 12010 Router	
	1.3.6.1.4.1.9.1.273	Cisco 12016 Router	
	1.3.6.1.4.1.9.1.423	Cisco 12404 Router	
	1.3.6.1.4.1.9.1.388	Cisco 12406 Router	
	1.3.6.1.4.1.9.1.394	Cisco 12410 Router	
	1.3.6.1.4.1.9.1.385	Cisco 12416 Router	
	1.3.6.1.4.1.9.1.478	Cisco 12810 Router	
	1.3.6.1.4.1.9.1.477	Cisco 12816 Router	

For details regarding the QoS feature support for these devices, see the detailed Suppported Devices Table for QPM 4.0.1 at http://www.cisco.com/en/US/products/sw/cscowork/ps2064/products_device_support_tables_list.html

Table 2 shows the QoS scheduling associated with the additional cards supported by QPM 4.0.1.

Table 2 Additional Cards Supported by QPM 4.0.1

Card Name	Type	Supported QoS Output Scheduling
WS-X6704-10GE	Line Card for Cat 6K	1P7Q8T
WS-X6748-GE-TX	Line Card for Cat 6K	1P3Q8T
WS-X6748-GE-SFP	Line Card for Cat 6K	1P3Q8T
FlexWAN2	VIP Card	N/A

Hardware and Software Requirements

QoS Policy Manager 4.0.1 requires that you have installed QoS Policy Manager 4.0, which runs on Common Services (CS) 3.0.5 server.

The hardware and software requirements for QPM 4.0.1 are the same as for QPM 4.0.

For detailed list of requirements and instructions to install CS 3.0.5 and QPM 4.0 on Solaris, see http://www.cisco.com/en/US/products/sw/cscowork/ps2064/products_installation_guide_book09186a00807fc47c.html

Downloading and Installing QPM 4.0.1

You can download the QPM 4.0.1 installer file, qpm4_0_1_sol.zip, from Cisco.com, and install it on a server that has QPM 4.0 already installed.

Note You should have a valid CCO (Cisco Connection Online) username and password to download the installer file.

The following topics describe the download and installation process of QPM 4.0.1:

- Downloading from Cisco.com, page 4
- Installing QPM 4.0.1, page 5

Downloading from Cisco.com

To download the QPM 4.0.1 installer file from Cisco.com:

Step 1 Go to http://www.cisco.com/pcgi-bin/tablebuild.pl/qos-patches.

You should provide your CCO credentials to access this page.

Step 2 Locate the file qpm4_0_1_sol.zip among the list of files to download.

Step 3 Right-click the file, select **Save Target As** or **Save Link As**, and specify the location to download the file to your machine.

Installing QPM 4.0.1

QPM saves the Historical Monitoring data at every hour of the system clock. Therefore, before you install QPM 4.0.1 over QPM 4.0, wait till the end of the hour to allow QPM to save the data associated with any Historical Monitoring tasks that are running.

The monitoring tasks will be resumed after you install QPM 4.0.1 and restart the CiscoWorks daemon.

To install QPM 4.0.1 on the machine that has QPM 4.0 already installed:

Step 1 Login as *root*.

Step 2 Go to the directory where you have downloaded the installer file, qpm4_0_1_sol.zip, and enter the following command to unzip the file:

`# unzip qpm4_0_1_sol.zip -d /`*target directory*

where *target directory* is the directory where you want to extract the installer file. This creates a directory called qpm4_0_1_sol in the *target directory.*

Step 3 Enter the following commands:

`# cd /`*target directory***`/qpm4_0_1_sol`**

`# ./setup.sh`

A message appears prompting you to read the license agreement.

Step 4 Press **Enter**. Continue to press **Enter** until the prompt to accept the license agreement ends.

Step 5 Enter either:

- **y** to accept the license and proceed with the installation,

Or

- **n** to deny and stop the installation.

The installation proceeds if you have entered **y**.

A prompt appears asking you to confirm whether you need to restart the CiscoWorks daemon after this installation.

Step 6 Enter either:

- **y** to restart the daemon after you finish the installation

Or

- **n** to deny the restart of CiscoWorks daemon (to allow installation of any other CiscoWorks applications)

After the installation is complete, you should restart the CiscoWorks daemon before running QPM 4.0.1 for the first time.

Known Problems

Table 3 describes the problems known to exist in QPM 4.0.1.

Table 3 Known Problems in QPM 4.0.1

Bug ID	Summary	Explanation
CSCsf08999	Error and exception messages appear while uninstalling QPM4.0	When you uninstall QPM 4.0, QPM displays an error message stating that it failed to remove the configuration from Apache server. Workaround: None
CSCsg91563	WRED Precedence-based weight 1 was not deployed into Router 7200	This occurs when you: 1. Create a policy in QPM, with 7200 (12.4) as the device constraint. 2. Define the WRED Precedence Based weight as 1 (under its QoS Properties Wizard > Congestion Avoidance page) 3. Deploy this policy on a 7200 (12.4) router. 4. Run the **`show run`** command in the device. The WRED Precedence Based weight of 1 does not appear as deployed on the device. Workaround: None
CSCsg92053	The **`service-policy output`** command from QPM is not deployed to the ATM subinterface.	This occurs in the following two cases: • When you create a policy in QPM, with 7200 (12.4) as the device constraint, and then deploy the policy on a 7200 (12.4) router, the **`service-policy output`** command is not deployed to the ATM3/0.2 sub-interface of the device. • When you create a policy in QPM, with Cat6509(Cat6000_PFC3) as the device constraint, and then deploy the policy on a Cat6509, the **`service-policy output`** command is not deployed to the **`mls qos vlan-based`** command in Cat6509. Workaround: None

Table 3 Known Problems in QPM 4.0.1 (continued)

Bug ID	Summary	Explanation
CSCsh02823	Cannot upload QoS Config for MLS QOS VLAN based in cat6509	This occurs when you: 1. Create a policy in Cat 6509 using the device CLI, and configure the **`mls qos vlan-based`** command in it. 2. Try to import this policy from the device into QPM by clicking Import QoS (in Provision > Policy Creation > Select Devices for Import page) A wait message appears and this message does not refresh. This means, the import is not working. Workaround: None
CSCsh25085	QPM does not display a report on 7200 with POS OC3 interface	This occurs when you: 1. Create a policy in QPM, with 7200 as the device constraint. 2. Deploy this policy on a 7200 device with POS OC3 interface. The deployment is successful, but in the Monitoring section of QPM, the POS interface is not displayed. Workaround: None
CSCsh64101	IP Telephony Wizard does not show interfaces for 3560,3750, and 6500	In the IP Telephony Wizard in QPM, you are not able to select some interfaces for Cat3560, Cat 3750, and CatOS6500. Workaround: We recommend that you use the AutoQoS Wizard in QPM to attach policies to the interfaces in Cat3560, Cat 3750, and CatOS6500.
CSCsh75911	Solaris2.9: Monitoring Graphs are not visible	Sometimes, while working with QPM, you find that the Historical Monitoring graphs are not displayed as they were earlier. Workaround: Restart the CiscoWorks daemon.

Table 3 Known Problems in QPM 4.0.1 (continued)

Bug ID	Summary	Explanation
CSCsh90881	DST Testing: Historical Monitoring task does not collect data	This problem occurs when you: 1. Install the Common Services DST patch by following the installation sequence for QPM 4.0. 2. Create a Historical Monitoring task in QPM, by scheduling it on a day when the Daylight Saving is in progress. However, sometimes, QPM fails to complete the monitoring task successfully, and the monitoring graph is not displayed. Workaround: None
CSCsh64379	Uploading Policy Map(Macros) creates duplicate Policy Map entries	This occurs when you: 1. Create a three level nested policy using two Policy Maps (created under Provision > Macros > Policy Maps) in QPM 2. Deploy the policy on a device. 3. Import the policy from the device to QPM. However, QPM displays four policy maps (including two duplicate Policy Maps) in the imported policy. Workaround: None
CSCsi94714	OS field in the Managed Devices page is wrong for CRS device	This occurs when you add a CRS device (Cisco CRS-1 Carrier Routing System 4-Slot Single Shelf) with the 3.4 OS version, into QPM device inventory. However, in the Managed Devices page, the OS is displayed as 3.3 corresponding to the CRS device you added. Workaround: None

Table 3 Known Problems in QPM 4.0.1 (continued)

Bug ID	Summary	Explanation
CSCsj43673	CRS: Traffic rules disappear when you try to edit them.	This occurs when you import a policy containing the **shape** command in the In Traffic Rule, from a CRS device (Cisco CRS-1 Carrier Routing System 4-Slot Single Shelf) into QPM. When you try to edit this traffic rule in the In Traffic Rules page in QPM, this traffic rule disappears from the page. This is because QPM does not support deployment of **shape** command in an In Traffic Rule, although the CRS device supports it. Workaround: None
CSCsj14247	Cisco10008: Real/Historical Monitoring Data is not collected	When you try to monitor a Cisco 10008 Router through QPM, you find that QPM does not collect any monitoring data from the device. As a result, both Real Time and Historical monitoring graphs for the device display an orange triangle, which indicates that no data has been collected from the device. Workaround: None
CSCsj14285	Cisco10008: Threshold deployment fails with configuration errror	This occurs when you define a threshold configuration in QPM for monitoring a Cisco 10008 Router. When you try to deploy this threshold configuration on the device, the deployment fails displaying a configuration error. This is because the Cisco 10008 device CLI does not accept the CBQoS 64 bit counter defined in the Threshold Configuration page in QPM. Workaround: None
CSCsj25265	Unable to launch Real-time and Historical monitoring for CRS	This occurs when you deploy a monitorable policy on a CRS device (Cisco CRS-1 Carrier Routing System 4-Slot Single Shelf). When you try to monitor this policy through QPM, you find the policy displayed in the QoS Report Card page. However, QPM does not launch Real Time charts for this policy, and any Historical Monitoring task that you schedule on the device displays a Collector Error. Workaround: None

Table 3 Known Problems in QPM 4.0.1 (continued)

Bug ID	Summary	Explanation
CSCsj58396	Unable to configure shaping with percentage value	This occurs when you: 1. Create a policy in QPM, with 7200 as the device constraint. 2. Create an Out Traffic Rule for the policy. 3. In the Shaping page (under Out Traffic Rule Wizard > Actions), select Percentage, and enter a value (less than 100) for the Rate. 4. Click **Next**. QPM displays an error message. This is because QPM is not able to configure a percentage value for shaping commands. Workaround: Use the Aggregate value option in the Shaping page.
CSCsj58528	Shaping deployed as aggregate value uploads as percentage value	This occurs when you: 1. Create a policy on a 7200 device, and configure the policy by entering aggregate values for the shaping commands 2. Import the policy into QPM. 3. Preview the imported policy in QPM. You find that the aggregate values defined in the shaping commands have been changed to percentage values. Workaround: None
CSCsj62022	Device level policy deployment removes RMON configuration	This occurs when you create a policy in QPM, with 2600 as the device constraint and deploy this policy on a 2611XM device. When you preview this policy on the device, you find that the RMON configuration has been removed from the device. Workraround: None

Resolved Problems

Table 4 describes some of the problems resolved since the last release of QPM.

Table 4 Resolved Problems in QPM 4.0.1

BugID	Summary	Additional Information
CSCsa27471	After you modified the IP Alias, QPM showed an incorrect Policy Configuration status while deploying policies	This problem has been resolved
CSCse37016	QPM applied multiple access-group statements without warnings or errors	This problem has been resolved
CSCsf29161	QPM did not show the VLAN-Interface association after device rediscovery	This problem has been resolved
CSCsf32810	4Q1T queue setting was not imported from 4948	This problem has been resolved
CSCsh21728	QPM did not allow both shape and share (SRR) on the same interface	This problem has been resolved
CSCsh28885	Import was not supported for a few global srr-queue commands	This problem has been resolved
CSCsh34598	CS > Server > Reports > Permission Report did not have full data for QPM	This problem has been resolved
CSCsh53244	QPM threw error while performing input check for FRTS parameters.	This problem has been resolved
CSCsh71761	DCR Error on Device Import in ACS Mode	This problem has been resolved
CSCsh85667	Launching QPM after DB import displayed an HTTP 500 error	This problem has been resolved
CSCsi02048	OLH for the section *Resetting the Login Module* threw HTTP400 Error	This problem has been resolved
CSCsh98258	QPM Reports displayed the devices of all ACS device groups	This problem has been resolved
CSCsh98405	ACS: Historical Job became InEdit in Network Operator mode	This problem has been resolved
CSCsh98101	ACS: Approver or Network Operator could create/assign Threshed Set	This problem has been resolved
CSCsh71761	DCR Error on Device Import in ACS Mode	This problem has been resolved
CSCdz34145	Monitoring tasks were not notified when SNMP community changes	This problem has been resolved
CSCsh64373	Could not delete all the created or uploaded Policy Maps (Macros)	This problem has been resolved
CSCsi82021	Could not delete all the created or uploaded Time-based ACLs (Macros)	This problem has been resolved

Table 4 Resolved Problems in QPM 4.0.1 (continued)

BugID	Summary	Additional Information
CSCsh74228	Blank entries in the Time based ACL table	This problem has been resolved
CSCsh80086	Policies were reversed for hierarchical QoS import	This problem has been resolved
CSCsh99441	Historical Monitoring job showed *null* for the last two polling intervals	This problem has been resolved
CSCsi70603	SNMP error messages appeared while discovering Cisco 7507 router in QPM	This problem has been resolved
CSCsi78928	QPM did not display IP address of VLAN interfaces in the Device Summary page	This problem has been resolved
CSCsi87979	Policy Preview was not working fine for Cat6500 device	This problem has been resolved

Closed Problems

Table 5 describes the known bugs from QPM 4.0 that were closed.

Table 5 Closed Problems in QPM 4.0.1

BugID	Summary	Additional Information
CSCsf20243	QPM inserted incorrect values for IP rtp priority bandwidth	Not found QPM 4.0.1
CSCsh72737	Daemon Restart was needed after upgrading the evaluation license to base license	Not found in QPM 4.0.1
CSCsh84271	Daemon Restart was needed after QMO to QBC license upgrade	Not found in QPM 4.0.1
CSCsh89024	QPM 4.0 MO: Reinstall displayed an HTTP 500 error	Not found in QPM 4.0.1