Readme for QoS Policy Manager 4.0.2 on Solaris

This Readme is for CiscoWorks QoS Policy Manager (QPM) 4.0.2 running on a Solaris platform. This Readme contains the following sections:

Description

CiscoWorks QoS Policy Manager 4.0.2 is a maintanence release that enhances the functionality of QoS Policy Manager 4.0 and QoS Policy Manger 4.0.1, by providing:

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

QPM 4.0.2 is a cumulative patch release, and you can install it on top of both QPM 4.0 and QPM 4.0.1.

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Related Documentation

QPM 4.0.2 is a maintanence release after QPM 4.0.1. The most updated documentation for QPM 4.0.2 and QPM 4.0 can be found on Cisco.com:

- Supported Devices and Software Releases for QoS Policy Manager 4.0.2

  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 4.0.2 not only supports the devices supported in QPM 4.0 and QPM 4.0.1, but also the following devices and cards:

- CRS 8-slot Single-shelf and 16-slot Single-shelf, and CRS Multi-shelf
- 7200 Series NPE-G2 Engine
- SIP/SPA Module
- Cat4500 Line Card
- Cat6000 Line Card/Module

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 4.0.2

Cisco System Device	Device OID	Device Name	Supported OS
Cisco Carrier Routing System (CRS)	1.3.6.1.4.1.9.1.643	Cisco CRS-1 8-Slot Single-shelf System	3.3, 3.4
	1.3.6.1.4.1.9.1.613	Cisco CRS-1 16-slot Single-shelf System	3.3, 3.4
	1.3.6.1.4.1.9.1.738	Cisco CRS-1 16-Slot Line-Card Chassis Route Processor (Multi-shelf System)	3.3, 3.4
	1.3.6.1.4.1.9.1.739	Cisco CRS-1 24-Slot Fabric-Card Chassis (Multi-shelf System)	3.3, 3.4
Cisco 7200 Series	1.3.6.1.4.1.9.1.222	Cisco 7200VXR NPE-G2 Engine	12.4(4)XD

For details regarding the QoS feature support for these devices, see the detailed Supported Devices Table for QPM 4.0.2 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 additional cards supported by QPM 4.0.2.

Table 2 Additional Cards Supported by QPM 4.0.2

Card Name	Type	Supported QoS Output Scheduling
WS-4013+	Cat4500 Line Card Support	4Q1T
WS-4013+TS	Cat4500 Line Card Support	4Q1T
WS-4013+10GE	Cat4500 Line Card Support	4Q1T
WS-X6708-10GE-3C	Cat6000 Line Card/Module Support	1P7Q4T
WS-X6708-10GE-3CXL	Cat6000 Line Card/Module Support	1P7Q4T
6582-2PA	Cat6000 Line Card/Module Support	N/A
WS-SUP720-3B	Cat6000 Line Card/Module Support	1P3Q8T

Table 3 shows the new SPAs (Shared Port Adapters) supported by QPM 4.0.2

Table 3 New SPAs Supported by QPM 4.0.2

SPA Product ID[1]	SPA Type
SPA-2XT3/E3	Serial SPA
SPA-2XCT3/DS0	Serial SPA
SPA-8XCHT1/E1	Serial SPA
SPA-1XTENGE-XFP	Ethernet SPA
SPA-5X1GE	Ethernet SPA
SPA-2XOC3-POS	POS SPA
SPA-4XOC3-POS	POS SPA
SPA-2XOC3-ATM	ATM SPA

1. QPM 4.0.2 supports SPAs on SIP-200, SIP-400, SIP-600, and SIP-800 carrier cards on the supported Cisco switches.

Hardware and Software Requirements

QoS Policy Manager 4.0.2 requires that you have installed QoS Policy Manager 4.0 or QoS Policy Manager 4.0.1. Both of these applications run on Common Services (CS) 3.0.5 server.

The hardware and software requirements for QPM 4.0.2 are the same as for QPM 4.0 and QPM 4.0.1.

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_device_support_tables_list.html

Downloading and Installing QPM 4.0.2

You can download the QPM 4.0.2 installer file, qpm4_0_2_sol.zip, from Cisco.com, or from the Software Center in Common Services (in case of QPM 4.0.1), and install it on a machine that has QPM 4.0 or QPM 4.0.1 already installed.

Note You should have a valid Cisco.com 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 5
- Downloading From Software Center, page 5
- Installing QPM 4.0.2, page 6

Downloading from Cisco.com

To download the QPM 4.0.2 installer file from Cisco.com:

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

You should provide your Cisco.com credentials to access this page.

Step 2 Locate the file qpm4_0_2_sol.zip from the list of files to be downloaded.

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.

Downloading From Software Center

If you are installing QPM 4.0.2 on top of QPM 4.0.1, you can also use the Software Updates option in CiscoWorks Common Services Software Center to download the QPM 4.0.2 installer file.

To download the QPM 4.0.2 installer file from Common Services Software Center associated with QPM 4.0.1:

Step 1 Go to the CiscoWorks Home Page associated with QPM 4.0.1, and select **Common Services > Software Center > Software Update**.

The Software Updates page appears.

Step 2 In the Products Installed table, select **CiscoWorks QoS Policy Manager 4.0.1**, and click **Select Updates**.

The CCO and Proxy Server Credentials page appears.

You are prompted to enter your Cisco.com User Name and Password.

If you have configured proxy settings, you are prompted to enter the Proxy Server User credentials.

You can configure your Proxy Server User credentials from the Proxy Server Setup page. To access the Proxy Server Setup page:

a. Go to the CiscoWorks Homepage and select **Common Services > Server > Security > Cisco.com Connection Management > Proxy Server Setup**.

   The Proxy Server Setup page appears.

b. Enter the required information in the page to configure your Proxy Server settings.

Step 3 Enter the required credentials in the CCO and Proxy Server Credentials page, and click **Next**.

The Available Images page appears with the available QPM 4.0.2 images for both Solaris and Windows (qpm4_0_2_sol.zip and qpm4_0_2_win.zip).

Step 4 Select **qpm4_0_2_sol.zip** and click **Next**.

The Destination Location page appears.

Step 5 Enter the location to save the zip file, or browse to the location using the Browse button.

Step 6 Click **Next**.

The Summary page appears. The Summary window displays a summary of your inputs.

Step 7 Click **Finish** to confirm the download operations.

The QPM 4.0.2 installer file is downloaded to the location you selected.

Installing QPM 4.0.2

QPM saves the Historical Monitoring data at every hour of the system clock. Therefore, before you install QPM 4.0.2 over QPM 4.0 or QPM 4.0.1, 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 4.0.2 and restart the CiscoWorks daemon.

To install QPM 4.0.2 on the machine that has QPM 4.0 or QPM 4.0.1 already installed:

Step 1 Login as *root*.

Step 2 Go to the directory where you have downloaded the installer file, qpm4_0_2_sol.zip, and enter the following command to unzip the file:

```
# unzip qpm4_0_2_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_2_sol in the *target directory.*

Step 3 Enter the following commands:

```
# cd /target directory/qpm4_0_2_sol
# ./setup.sh
```

A message appears prompting you to read the license agreement.

Step 4 Press **Enter** and 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 4.0.2 for the first time.

Known Problems

Table 4 describes the known problems in QPM 4.0.2.

Table 4 Known Problems in QPM 4.0.2

Bug ID	Summary	Explanation
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

Table 4 Known Problems in QPM 4.0.2 (continued)

Bug ID	Summary	Explanation
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
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
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 4 Known Problems in QPM 4.0.2 (continued)

Bug ID	Summary	Explanation
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
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	Cannot 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 4 Known Problems in QPM 4.0.2 (continued)

Bug ID	Summary	Explanation
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
CSCsl02542	Cat 4500 (IOS): Threshold Deployment is not working	This occurs when you try to deploy the Threshold Sets, which you configured in QPM, on Cat 4500 (IOS). You find that the threshold commands are not being deployed on the device CLI. This occurs even if the Threshold Deployment job status appears as Completed on the Completed Jobs page. Workaround: None
CSCsl04423	Cat 4500 (IOS): Policy with policing and class-Default class is not discovered	This occurs when you: 1. Configure a policy in Cat 4500 (IOS) through the device CLI, using policing and class-default commands 2. Import the policy into QPM. The policy is not displayed in the QoS Report Card page. This means that QPM does not discover such a policy imported from Cat 4500 (IOS). Workaround: None

Table 4 Known Problems in QPM 4.0.2 (continued)

Bug ID	Summary	Explanation
CSCsl08216	Cat4500 (IOS): CLI for `qos trust device <cisco-phone>` is not generated	This occurs when you: 1. Create a policy with Cat 4500 (IOS) as the device constraint. 2. In the QoS Properties Wizard > Congestion Management page, select the scheduling as 4Q1T or Default 3. In the QoS Properties Wizard > Traffic Control Settings page, select Enable Trust for Cisco Phone 4. Assign this policy to an interface, and check the CLI preview. You find that no CLI is getting displayed for `qos trust device <cisco-phone>` Workaround: None
CSCsk92666	Threshold deployment fails with configuration errror for WS-C6509-E with 12.2 (33) SXH.	This occurs when you configure a Threshold Set in QPM by entering the ClassMapMetrics, and deploy it on a WS-C6509-E running on 12.2 (33) SXH. The deployment fails, throwing the following error: `Unknown object: cbQosCMPrePolicyPkt64`. Workaround: None
CSCsl00063	QPM does not support WRED for CRS	This occurs when you configure a policy in QPM, with CRS as the device constraint. After you define the WRED mappings for the policy in the In/Out Traffic Rule Wizard > Actions > Congestion Avoidance page, and perform a CLI preview, you find that QPM does not support WRED commands for CRS. Workaround: None
CSCsl11579	WS-C6509-E: IP Telephony does not discover 1P7Q4T card type	The IP Telephony Wizard in QPM does not discover the WS-6708-10GE-3CXL and WS-6708-10GE-3C modules, which support 1P7Q4T scheduling, in a WS-C6509-E device. Workaround: None

Table 4 Known Problems in QPM 4.0.2 (continued)

Bug ID	Summary	Explanation
CSCsl13386	Time-based ACL created under nested policy is not getting imported into QPM	This occurs when you: 1. Create a nested policy in the device CLI, with Time-based ACL attached to the nested policy. 2. Import this policy into QPM. 3. Perform a CLI preview of the policy. The Time-based ACL command is shown in the preview. 4. Go to Macros > Time Based ACL page The Time-based ACL that you imported does not appear in the table. After you import such a nested policy with Time-based ACL attached to it, QPM does not support any further import of Time-based ACL commands in a policy. This means that QPM does not support the import of Time-based ACL created under a nested policy. Workaround: None

Resolved Problems

Table 5 describes some of the problems resolved since the last release of QPM.

Table 5 Resolved Problems in QPM 4.0.2

BugID	Summary	Additional Information
CSCsg75733	The DSCP Value option in the Marking page for Cat 2950 gives unsupported values	This problem has been resolved
CSCse22947	QPM does not support bandwidth percent command for Cat 4000 4Q1T shape	This problem has been resolved
CSCsh25418	The `match dscp` command is not supported by QPM	This problem has been resolved
CSCsj14247	Cisco10008: Real-time and Historical Monitoring Data is not collected	This problem has been resolved
CSCsj73761	During Selection of WFQ in Output traffic, script error is thrown for MSFC	This problem has been resolved
CSCsj76593	Policy Creation - Filter section should mention Traffic Classification	This problem has been resolved
CSCsh64101	IP Telephony Wizard is not showing interfaces for 3560,3750 & 6500	This problem has been resolved

Table 5 Resolved Problems in QPM 4.0.2 (continued)

BugID	Summary	Additional Information
CSCse22947	QPM does not support bandwidth percent command for Cat4000 4Q1T shape	This problem has been resolved
CSCsj70456	Selecting the SSH option while adding devices throws error on page displayed in Internet Explorer	This problem has been resolved
CSCsj70462	Unable to create policy from template for custom created policy group	This problem has been resolved
CSCsk62490	QPM 4.0.1 failed to import policy due to dbl configuration	This problem has been resolved
CSCsk90845	Cat4500 (IOS): Real time monitoring is not running properly	This problem has been resolved
CSCsk88488	Cat6000: QPM import fails for `police` command	This problem has been resolved
CSCsk94050	Port-channel is not recognized on Cat6000	This problem has been resolved