



# Readme for QoS Policy Manager 4.1.1 on Solaris

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This Readme is for CiscoWorks QoS Policy Manager (QPM) 4.1.1 running on a Solaris platform. This Readme contains the following sections:

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## Description

CiscoWorks QoS Policy Manager 4.1.1 is a maintenance release that enhances the functionality of QoS Policy Manager 4.1 by providing:

- Support for new features
- Enhancements to existing QPM 4.1 features
- Command support
- Device support

QPM 4.1.1 is a patch release, and you can install it on top of QPM 4.1.



## Related Documentation

QPM 4.1.1 is a maintenance release after QPM 4.1. The latest documentation for QPM 4.1.1 and QPM 4.1 can be found on Cisco.com:

- Supported Devices and Software Releases for QoS Policy Manager 4.1.1  
[http://www.cisco.com/en/US/products/sw/cscowork/ps2064/products\\_device\\_support\\_tables\\_list.html](http://www.cisco.com/en/US/products/sw/cscowork/ps2064/products_device_support_tables_list.html)
- Installation Guide for CiscoWorks QoS Policy Manager 4.1 on Solaris  
[http://www.cisco.com/en/US/docs/net\\_mgmt/ciscoverks\\_qos\\_policy\\_manager/4.1/installation/guide/solaris/QPM41SOL.html](http://www.cisco.com/en/US/docs/net_mgmt/ciscoverks_qos_policy_manager/4.1/installation/guide/solaris/QPM41SOL.html)
- Getting Started Guide for CiscoWorks QoS Policy Manager 4.1  
[http://www.cisco.com/en/US/docs/net\\_mgmt/ciscoverks\\_qos\\_policy\\_manager/4.1/getting\\_started/guide/qpm41gsg.html](http://www.cisco.com/en/US/docs/net_mgmt/ciscoverks_qos_policy_manager/4.1/getting_started/guide/qpm41gsg.html)
- Quick Start Guide for CiscoWorks QoS Policy Manager 4.1.  
[http://www.cisco.com/en/US/docs/net\\_mgmt/ciscoverks\\_qos\\_policy\\_manager/4.1/quick\\_start/guide/qpm41qsg.html](http://www.cisco.com/en/US/docs/net_mgmt/ciscoverks_qos_policy_manager/4.1/quick_start/guide/qpm41qsg.html)
- Readme for CS 3.2 with QoS Policy Manager 4.1.  
[http://www.cisco.com/en/US/docs/net\\_mgmt/ciscoverks\\_qos\\_policy\\_manager/4.1/readme/CS32RMe.html](http://www.cisco.com/en/US/docs/net_mgmt/ciscoverks_qos_policy_manager/4.1/readme/CS32RMe.html)
- User Guide for QoS Policy Manager 4.1  
[http://www.cisco.com/en/US/docs/net\\_mgmt/ciscoverks\\_qos\\_policy\\_manager/4.1/user/guide/qpm41ug.html](http://www.cisco.com/en/US/docs/net_mgmt/ciscoverks_qos_policy_manager/4.1/user/guide/qpm41ug.html)

## New Features

QPM 4.1.1 includes the following new features:

- NBAR PDLM Protocol Discovery—Enables you to add, import, edit, or delete new NBAR supported protocols. You can also add new parameter values to the existing set of NBAR supported protocols.

When you add support for a new protocol to a device, the Protocol Discovery Language Module (PDLM) is updated on the device. You can add these newly supported NBAR protocols on the device to the QPM user interface.

- VLAN Monitoring—Enables you to monitor VLAN interfaces that are based on CBQoS MIB. QPM supports both real time and historical monitoring jobs for VLAN interfaces.
- Catalyst 6000 Device Discovery—Enables you to easily locate Cat 6000 devices that support PISA cards from Cat 6000 devices that support other cards. QPM user interface displays the Catalyst 6000 (Cat 6000) devices that enclose a PISA card with a “with PISA” suffix to their display names.

For example, the display name of a Cat 6000 device with PISA card support appears in the Device Summary page as:

```
- Cat6000_PFC3 (IOS) with PISA
```

Whereas, the display name of a Cat 6000 device that supports other cards appears in the Device Summary page as:

```
- Cat6000_PFC3 (IOS)
```

- **Object Selector Filter Options**—Enables you to search for one or more objects in an object selector. You can search for objects, based on the object categories. You can also edit or delete the objects that appear as a result of the Filter operation.
- **Match VLAN Support**—Enables you to define or remove VLAN IDs to specify a VLAN condition in the current traffic classifier rule.

You can set up to 30 VLAN IDs in a single VLAN condition. The range of VLAN IDs that you can set depends on the device type. VLAN ID ranges for various device types are:

- IOS devices—1 to 1500
- CAT devices—1 to 4094
- 7600 devices—1 to 4095

To add or modify a VLAN condition to a device, you must set at least one VLAN ID in each VLAN condition.

## Enhanced Features

QPM 4.1.1 provides enhancements to the Table Pagination feature in QPM 4.1. The 4.1.1 release has new controls to the QPM tables.

The table header includes a Rows per page drop down list that enables you to set the number of rows that can appear on a single table page. You can set the following values in the Rows per page drop down list: 10, 25, 50, 100, and All. The default value is 10.

The table footer includes page navigation controls that enable you to navigate across multiple table pages. If a table consists of only one page, the navigation controls are disabled.

## Command Support

QPM 4.1.1 not only supports the commands supported in QPM 4.1, but also the following new commands:

- `rcv-queue cos-map queue-id threshold-id [cos-1 ...cos-n]`
- `priority-queue queue-limit weight`
- `qos db1`
- `qos db1 exceed-action ecn`
- `mls qos srr-queue input dscp-map queue queue-id {dscp1...dscp8 | threshold threshold-id dscp1...dscp8}`
- `mls qos srr-queue output dscp-map queue queue-id {dscp1...dscp8 | threshold threshold-id dscp1...dscp8}`
- `queue-set qset-id`
- `wrr-queue random-detect queue-id`

In addition to these new commands, this release also adds IOS XR command support for the CRS and the GSR devices.

# Device Support

QPM 4.1.1 not only supports the devices supported in QPM 4.1, but also the Cisco 860 Series and 880 Series Routers

Table 1 shows the device OIDs and names of the additional devices supported by QPM 4.1.1.

**Table 1 Additional Devices Supported by QPM 4.1.1**

Cisco System Device	Device OID	Device Name	Supported OS
Cisco 860 Series		Cisco 860 Series Routers	
	1.3.6.1.4.1.9.1.834	Cisco 861 Integrated Services Router	12.4
	1.3.6.1.4.1.9.1.835	Cisco 866 Router	12.4
	1.3.6.1.4.1.9.1.836	Cisco 867 Integrated Services Router	12.4
Cisco 880 Series		Cisco 880 Series Routers	
	1.3.6.1.4.1.9.1.837	Cisco 881 Integrated Services Router	12.4T
	1.3.6.1.4.1.9.1.842	Cisco 886 Integrated Services Router	12.4T
	1.3.6.1.4.1.9.1.847	Cisco 887 Integrated Services Router	12.4T
	1.3.6.1.4.1.9.1.852	Cisco 888 Integrated Services Router	12.4T
	1.3.6.1.4.1.9.1.859	Cisco 885 Integrated Services Router (885-D-3)	12.4T
	1.3.6.1.4.1.9.1.861	Cisco 885 Integrated Services Router (885-E/J-3)	12.4T

**Table 1** *Additional Devices Supported by QPM 4.1.1*

Cisco System Device	Device OID	Device Name	Supported OS
Cisco 1800 Series		Cisco 1800 Series Integrated Services Routers	
	1.3.6.1.4.1.9.1.902	Cisco 1861 Integrated Services Router (C1861-UC-2BRI-K9)	12.3
	1.3.6.1.4.1.9.1.903	Cisco 1861 Integrated Services Router (C1861-UC-4FXO-K9)	12.3
	1.3.6.1.4.1.9.1.904	Cisco 1861 Integrated Services Router (C1861-SRST-B/K9)	12.3
	1.3.6.1.4.1.9.1.905	Cisco 1861 Integrated Services Router (C1861-SRST-F/K9)	12.3
	1.3.6.1.4.1.9.1.939	Cisco 1861 Integrated Services Router (C1861-SRST-C-B/K9)	12.3
	1.3.6.1.4.1.9.1.940	Cisco 1861 Integrated Services Router (C1861-SRST-C-F/K9)	12.3
	1.3.6.1.4.1.9.1.990	Cisco 1861 Integrated Services Router (C1861W-SRST-F/K9)	12.3
	1.3.6.1.4.1.9.1.991	Cisco 1861 Integrated Services Router (C1861W-SRST-B/K9)	12.3
	1.3.6.1.4.1.9.1.992	Cisco 1861 Integrated Services Router (C1861W-SRST-C-F/K9)	12.3
	1.3.6.1.4.1.9.1.993	Cisco 1861 Integrated Services Router (C1861W-SRST-C-B/K9)	12.3
	1.3.6.1.4.1.9.1.994	Cisco 1861 Integrated Services Router (C1861W-UC-4FXO-K9)	12.3
	1.3.6.1.4.1.9.1.995	Cisco 1861 Integrated Services Router (C1861W-UC-2BRI-K9)	12.3
	Cisco CRS		Cisco Carrier Routing Systems
1.3.6.1.4.1.9.1.738		CRS-1 Multishelf System	IOS XR 3.3 and 3.4
Cisco XR 12000 Series		Cisco XR 12000 Series Routers	
	1.3.6.1.4.1.9.1.388	Cisco XR 12406 Router	IOS XR 3.6.1, 3.7.0, 3.7.1
	1.3.6.1.4.1.9.1.394	Cisco XR 12410 Router	IOS XR 3.6.1, 3.7.0, 3.7.1
	1.3.6.1.4.1.9.1.478	Cisco XR 12810 Router	IOS XR 3.6.1, 3.7.0, 3.7.1
	1.3.6.1.4.1.9.1.273	Cisco XR 12016 Router	IOS XR 3.6.1, 3.7.0, 3.7.1

For details regarding the QoS feature support for these devices, see the detailed Supported Devices Table for QPM 4.1.1 at [http://www.cisco.com/en/US/products/sw/cscowork/ps2064/products\\_device\\_support\\_tables\\_list.html](http://www.cisco.com/en/US/products/sw/cscowork/ps2064/products_device_support_tables_list.html)

Table 2 shows the additional cards supported by QPM 4.1.1.

**Table 2 Additional Cards Supported by QPM 4.1.1**

Card Name	Type
Cisco 7600 Series OSM-2+4GE-5PACK+	Line Card

## Hardware and Software Requirements

QoS Policy Manager 4.1.1 requires that you have installed QoS Policy Manager 4.1. All of these applications run on Common Services (CS) 3.2 server.

The hardware and software requirements for QPM 4.1.1 are the same as for QPM 4.1.

For detailed list of requirements and instructions to install CS 3.2 and QPM 4.1 on Solaris, see [http://www.cisco.com/en/US/docs/net\\_mgmt/cisoworks\\_qos\\_policy\\_manager/4.1/installation/guide/solaris/QPM41SOL.html](http://www.cisco.com/en/US/docs/net_mgmt/cisoworks_qos_policy_manager/4.1/installation/guide/solaris/QPM41SOL.html)

## Downloading and Installing QPM 4.1.1

You can download the QPM 4.1.1 installer file, qpm4\_1\_1\_sol.zip, from Cisco.com, and install it on a machine that has QPM 4.1 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 4.1.1:

- [Downloading from Cisco.com, page 6](#)
- [Installing QPM 4.1.1, page 7](#)

## Downloading from Cisco.com

To download the QPM 4.1.1 installer file from Cisco.com:

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- Step 1** Go to <http://www.cisco.com/cgi-bin/tablebuild.pl/qos-patches>.  
You should enter your Cisco.com credentials to access this page.
- Step 2** Locate the file, qpm4\_1\_1\_sol.zip from the list of files to be downloaded.
- Step 3** Download the file to a location on your machine.
-

## Installing QPM 4.1.1

QPM saves the Historical Monitoring data at the end of every hour. Therefore, before you install QPM 4.1.1 over QPM 4.1, wait till the end of the hour. This is 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 4.1.1 and restart the CiscoWorks daemon.

To install QPM 4.1.1 on a machine that has QPM 4.1 already installed:

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**Step 1** Login as *root*.

**Step 2** Go to the directory where you have downloaded the installer file, `qpm4_1_1_sol.zip`, and enter the following command to unzip the file:

```
# unzip qpm4_1_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_1_1_sol` in the *target directory*.

**Step 3** Enter the following commands:

```
# cd /target directory/qpm4_1_1_sol
```

```
# ./setup.sh
```

A message appears prompting you to read the license agreement.

**Step 4** Press **Enter**.

The license agreement scrolls up in your display screen and stops at the end of the screen.

**Step 5** Continue to press **Enter** at the end of each subsequent screen until the prompt to accept the license agreement appears.

**Step 6** 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 7** 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 4.1.1 for the first time.

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# Known Problems

Table 3 describes the known problems in QPM 4.1.1.

**Table 3** *Known Problems in QPM 4.1.1*

Bug ID	Summary	Explanation
CSCsm38123	Service-Policy command is not deployed on a device with the following configuration: Device Model: Cat6000_PFC1(IOS) Interface: Cat6509 GigEthernet port. IOS Version: 12.2(17r)S4	This occurs when you deploy the Service-Policy command on the specified device.  A message appears on the Local Preview page in QPM that the Service-Policy command has been deployed successfully.  However, if you enter the Service-Policy command on the device in the CLI mode, you find that the policy is not deployed.  Workaround: None.
CSCsq12042	Firefox: Buttons do not work after you create and deploy policies and assign threshold sets.	This occurs when you:  1. Create a policy and a deployment job for any one of the following policies: <ul style="list-style-type: none"> <li>- Custom policy</li> <li>- Voice policy</li> <li>- AutoQoS policy</li> </ul> 2. Assign a threshold set.  The buttons do not work in any of the pages.  Workaround:  1. Click <b>Dashboard</b> to return to the Main Menu.  2. Return to the Policy Deployment page from the Main Menu  All buttons work.
CSCsq67358	QPM Dashboard on LMS does not load all portlets, initially.	This occurs when you have not added the portlets to the QPM view in LMS.  Workaround:  Add all portlets to QPM view in LMS and save the view. This setting will be preserved.

**Table 3**      **Known Problems in QPM 4.1.1 (continued)**

Bug ID	Summary	Explanation
CSCsq81508	TelePresence: OC3 Interfaces on non-SOP modules are not listed in the Define Circuit page.	<p>This occurs when you:</p> <ol style="list-style-type: none"> <li>1. Import a device with OC3 connection.</li> <li>2. Choose TelePresence &gt; Circuit Table.</li> <li>3. Create a TelePresence circuit for OC3 interface.</li> <li>4. Choose <b>OC3</b> from the Select the interface drop-down list.</li> <li>5. Click <b>Next</b>.</li> </ol> <p>The Define Circuit page appears. This page lists the start and end points of the circuit. It does not display OC3 interfaces.</p> <p>Workaround: None.</p>
CSCsr04020	IE 7.0 browser—CPU usage is high when 2000 or more devices are listed in the Tree View.	<p>IE 7.0 uses a higher percentage of CPU compared to IE 6 or FireFox 2.x.</p> <p>When you continuously use the Tree View device selector (listing 2000 or more devices), IE 7.0 sometimes uses 100% of CPU.</p> <p>Workaround: You can either:</p> <ul style="list-style-type: none"> <li>• Go to some other QPM page that does not have the Tree View device selector.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>• Close and open IE.</li> </ul>
CSCsr17121	Show Run option in Device Properties page does not work in ACS mode.	<p>This occurs when you:</p> <ol style="list-style-type: none"> <li>1. Register QPM with ACS (custom privilege with all permissions enabled).</li> <li>2. Go to the Device Summary page of a device.</li> <li>3. Click <b>Show Run</b>.</li> </ol> <p>A new page appears with a QPM error.</p> <p>Workaround: None.</p>
CSCsr25139	IE 7.x: Copy policy group option opens a new page with a QPM error.	<p>This occurs when you:</p> <ol style="list-style-type: none"> <li>1. Choose Provisioning &gt; Policy Management &gt; Policy Groups.</li> <li>2. Select a policy group and click <b>Copy</b>.</li> </ol> <p>A new page appears with a QPM error.</p> <p>Workaround: To view the policy:</p> <ol style="list-style-type: none"> <li>1. Close the QPM error page.</li> <li>2. Choose Provisioning &gt; Policy Management &gt; Policy Groups.</li> </ol> <p>The Policy Groups page lists the copied policy.</p>

Table 3 Known Problems in QPM 4.1.1 (continued)

Bug ID	Summary	Explanation
CSCsu01936	TelePresence Circuits are not available for 7200 devices with IOS version 12.3 or lower.	<p>This occurs when you:</p> <ol style="list-style-type: none"> <li>1. Choose Provisioning &gt; TelePresence &gt; Circuit Table.</li> <li>2. Click <b>Create a Circuit</b>.</li> <li>3. Enter a circuit name, select interface type, and configure circuit and class utilization notifications.</li> <li>4. Click <b>Next</b>. The Monitoring Job page appears.</li> <li>5. Choose Monthly from the Job frequency drop-down list.</li> <li>6. Click <b>Next</b> and <b>Finish</b> to save the configuration. The TelePresence Circuit does not appear in the TelePresence Circuit table.</li> </ol> <p>Workaround:</p> <p>This problem occurs in 7200 devices with IOS version 12.3 or lower.</p> <ul style="list-style-type: none"> <li>• If the IOS version is lower than 12.3, map the 7200 device to IOS 12.3.</li> <li>• If the IOS version is 12.3, map it to a higher version.</li> </ul> <p>To map the 7200 device to 12.3 or higher version:</p> <ol style="list-style-type: none"> <li>1. Choose Devices &gt; Device Summary.</li> <li>2. Click the device hyperlink. The Device Summary General Information page appears.</li> <li>3. Choose 12.3 or a higher version in the Mapped OS drop-down list.</li> <li>4. Click <b>Save</b>.</li> </ol>
CSCsu35483	Policy deployment for 10,000 devices—Pending Jobs page causes the Tomcat memory to grow over 1 GB.	<p>This occurs when you:</p> <ol style="list-style-type: none"> <li>1. Create a single deployment job for 10,000 devices. The UI control returns to the Pending Jobs page.</li> <li>2. Continue to work on the Pending Jobs page for three or four hours. The Tomcat memory grows over 1 GB and slows down server performance.</li> </ol> <p>Workaround:</p> <p>After you create the job, exit out of the Pending Jobs page.</p> <p>This stops the Tomcat memory growth and the used memory comes down after sometime.</p>

Table 3 Known Problems in QPM 4.1.1 (continued)

Bug ID	Summary	Explanation
CSCsw81908	Unable to select multiple rows (spread across multiple table pages) at a time in the pagination tables.	<p>This occurs when you:</p> <ol style="list-style-type: none"> <li>1. Go to a pagination table that contains more than 10 rows. Examples of a pagination table are Import from DCR table, Network Element Assignment table, Completed Jobs table, and so on.</li> <li>2. Check the Common Selection check box and click the right arrow button in the navigation controls. The next table page appears.</li> <li>3. Click the left arrow button to go to the previous page. The user interface does not preserve the selection that you have made in Step 2.</li> </ol> <p>This also occurs when you:</p> <ol style="list-style-type: none"> <li>1. Go to a pagination table that contains more than 10 rows. Examples of a pagination table are Import from DCR table, Network Element Assignment table, Completed Jobs table, and so on.</li> <li>2. Check the Common Selection check box and click the right arrow button in the navigation controls. The next table page appears.</li> <li>3. Click any one of the buttons on this table page without selecting an item from the table. An alert message appears corresponding to the button that you have clicked. This alert message informs you that the application is not able to work with multiple table pages at this time.</li> </ol> <p>Workaround:</p> <ol style="list-style-type: none"> <li>1. Go to a pagination table that contains more than 10 rows.</li> <li>2. Select All from the Rows Per Page drop down list.</li> <li>3. Click <b>Go</b>. All items in the table appear in a single table page.</li> </ol>
CSCsy92835	QPM does not support the <code>trust-dscp</code> command for CBQoS.	<p>This occurs when you:</p> <ol style="list-style-type: none"> <li>1. Create a policy for Cat6k.</li> <li>2. Select the scheduling type as CBQoS in QoS properties page.</li> <li>3. Create the IN traffic rule. In Marking, QPM does not enable the Trust option.</li> </ol> <p>Workaround:</p> <p>None</p>

Table 3 Known Problems in QPM 4.1.1 (continued)

Bug ID	Summary	Explanation
CSCsy83986	Cannot delete Timed ACL from the Policy.	<p>This occurs when you:</p> <ol style="list-style-type: none"> <li>1. Create a policy in QPM with a Timed ACL.</li> <li>2. Edit the policy and try to delete the Timed ACL</li> </ol> <p>A message appears that there is an error on the page.</p> <p>Workaround:</p> <ul style="list-style-type: none"> <li>• Delete the traffic classifier rule and create a new traffic classification.</li> <li>• Replace the existing timed-acl with a new timed-acl.</li> </ul>
CSCsw18111	While applying an FRTS policy to a Cat 1720 device, an error appears in the Debug mode.	<p>This occurs when you:</p> <ul style="list-style-type: none"> <li>• Apply an FRTS policy to a Cat 1720 device.</li> </ul> <p>The following exception appears:</p> <pre>com.cisco.nm.qpm.server.policy.exceptions.ContradictingCapabilitiesException occurred in: /qpm/servlet/com.cisco.nm.qpm.web.policy.group.wizard.servlet.PGDefinitionWizardServlet</pre> <p>Workaround:</p> <p>None</p>
CSCsy84636	If you deselect an object, it is not removed from the object selectors in the Device View Device Summary and the Device Folder pages	<p>This occurs when you:</p> <ol style="list-style-type: none"> <li>1. Go to Devices &gt; Device Grouping &gt; Device Folders.</li> <li>2. Select a device folder from the table and Click <b>Edit</b>.</li> </ol> <p>The Device Folder Properties Page appears.</p> <ol style="list-style-type: none"> <li>3. Deselect a device from the device folder and click <b>Save</b>.</li> <li>4. Select the device folder that you have edited in Step 3 and click <b>Edit</b>.</li> </ol> <p>The device that you have removed from the device folder in Step 3 still appears under the device folder.</p> <p>This also occurs when you:</p> <ol style="list-style-type: none"> <li>1. Go to Devices &gt; Device Management &gt; Device Summary</li> <li>2. Expand a device and select a few interfaces in this device.</li> <li>3. Expand another device and select a few interfaces in this device.</li> <li>4. Deselect the interfaces from the device that you have selected in Step 2.</li> <li>5. Click <b>Show QoS Capabilities</b>.</li> </ol> <p>The deselected interfaces also appear in the Qos Capabilities report.</p> <p>Work around</p> <p>After you deselect an object from the Object selector, collapse the parent object of the deselected object to preserve the changes.</p>

# Resolved Problems

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

**Table 4** *Resolved Problems in QPM 4.1.1*

BugID	Summary	Additional Information
CSCsm12489	The Edit option in the Tree View device selector did not work.	This problem has been resolved.
CSCsm14370	In Real Time and Historical Monitoring charts, the option to view the chart with a logarithmic vertical axis did not work	This problem has been resolved.
CSCsm46162	System Name was not displayed fully in the Network Assignment Element page.	This problem has been resolved.
CSCso47414	Chart legends were sometimes displayed vertically.	This problem has been resolved.
CSCsq26633	QPM did not retrieve Display Name and Domain Name information from Common Services' DCR.	This problem has been resolved.
CSCsq55659	Nested policies Hierarchical QoS ClassMaps page did not have a scroll bar.	This problem has been resolved.
CSCsq60783	Search, Selection, and Filter options were not in any of the Tree View device selectors.	This problem has been resolved.
CSCsq60862	If you resized the browser scroll bars were not created.	This problem has been resolved.
CSCsq88389	Search and selection options in the Tree View policy selector were not fully functional.	This problem has been resolved.
CSCsr03804	Policy Templates: Constraints Definition link was disabled.	This problem has been resolved.
CSCsr03820	Constraint Definition, QoS Properties, and Traffic Rules pages were not visible while creating policy using the Attach Policy Template option.	This problem has been resolved.
CSCsr43606	QPM did not list the interfaces of selected devices in Voice Policy.	This problem has been resolved.
CSCsu20996	Device Discovery process took a long time for Bulk Device Import (10,000).	This problem has been resolved.
CSCsu26699	Device Group was not set after ACS integration in Policy View page.	This problem has been resolved.

**Table 4** *Resolved Problems in QPM 4.1.1 (continued)*

<b>BugID</b>	<b>Summary</b>	<b>Additional Information</b>
CSCsu44813	QPM did not display PortQoS devices in the Tree View device selector under Real Time QoS Monitoring for the first time after a fresh installation.  This occurred when QPM inventory has only PortQoS-supported devices.	This problem has been resolved.
CSCsu47379	CbQoS historical monitoring jobs could be created after you upgraded to QPM 4.1.	This problem has been resolved.
CSCsq28775	For devices that already had display names in DCR, QPM user interface displayed the IP addresses instead of the display names specified in DCR.	This problem has been resolved.
CSCsr04179	QPM documentation did not specify real time monitoring hard limit.	This problem has been resolved.
CSCsv68575	The units of measurement of the data values in the exported graph report were different from the units of measurement of the data values in the actual graph report.	This problem has been resolved.
CSCsw80246	In SSL mode, the Real Time monitoring chart displayed an http 2032 error.	This problem has been resolved.
CSCsx06087	During class-map configuration, if you used the Traffic Rule Creation workflow, QPM displayed the Bandwidth remaining percent error even when the cumulative bandwidth equaled 100%.	This problem has been resolved.
CSCsw66015	QPM did not create the DSCP Markings for Cat2950 Policies.	This problem has been resolved.
CSCsv91443	QPM displayed an unknown error while creating a policy from the inventory on the cat6509 device with IP3Q8T.	This problem has been resolved.
CSCsu94758	After deploying a blank policy on a device, QPM did not delete some commands that existed in the previous policy.	This problem has been resolved.
CSCsw27440	In the Policy Description page, the image icon corresponding to the disabled policies did not appear correctly in the Traffic Rules table.	This problem has been resolved.
CSCsm14567	Scroll bars did not appear in the content area and the wizard pages of the QPM user interface.	This problem has been resolved.
CSCsm87782	The QPM QoS import report table did not display the start time.	This problem has been resolved.

**Table 4**      **Resolved Problems in QPM 4.1.1 (continued)**

<b>BugID</b>	<b>Summary</b>	<b>Additional Information</b>
CSCsy54083	QPM did not display the police percent option for ASR1000 if it was running IOS 12.2.	This problem has been resolved.
CSCsr76618	QPM did not import hierarchal QoS monitoring policies that were attached to the tunnel interfaces.	This problem has been resolved.

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