CiscoWorks Quality of Service Policy Manager 4.0

CiscoWorks Quality of Service Policy Manager (QPM) enables centralized management of quality of service (QoS). It provides comprehensive QoS provisioning and monitoring capabilities so that network administrators can manage and fine-tune the delay, delay variation (jitter), bandwidth, and packet loss parameters required for successful deployment and optimal utilization of network resources.

Product Overview

CiscoWorks Quality of Service Policy Manager (QPM) provides centralized management of quality of service (QoS) policy creation, validation, deployment, and monitoring to enable the secure and predictable delivery of business applications, such as video, voice over Internet Protocol (VoIP), TelePresence and critical data center applications.

Designing, deploying, and monitoring QoS is a complex process that requires enterprise-grade automation. CiscoWorks QPM provides network administrators with comprehensive QoS provisioning and monitoring capabilities allowing them to manage and fine-tune the delay, delay variation (jitter), bandwidth, and packet loss parameters required for successful end-to-end deployment and optimal utilization of network resources. The end result is networkwide intelligent, consistent, and sophisticated QoS that allows performance protection for voice, video, and Internet business applications while reducing costs and optimizing the utilization of network resources.

Key Features and Benefits

Table 1 lists the primary features of CiscoWorks QPM.

Table 1.   CiscoWorks QPM Features and Benefits

Feature	Benefits
QoS provisioning	• Significantly reduces cost and time required for efficient design and deployment of QoS across thousands of devices and hundreds of thousands of interfaces on a broad range of Cisco® routers and switches • Alleviates the need for scarce expertise by abstracting the complexity of QoS technology and providing high-level knobs such as QoS Policy Templates to automate the process of configuring QoS without error and with consistency
QoS monitoring	• Provides visibility into the performance of converged network applications on an ongoing basis • Measures traffic throughput for top applications and service classes • Troubleshoots problems by providing real-time and historical QoS feedback • Helps ensure compliance of applications with QoS • Alerts users of QoS violations such as user-defined threshold excesses • Analyzes the impact of applied QoS policies on Cisco Unified Communications

New Features

CiscoWorks QPM 4.0 is a major release that introduces the following new features:

- Significant platform upgrades: new Solaris8/9 version, Windows 2003, CiscoWorks Common Services Software 3.0.5, import from CiscoWorks Device Credential Repository (DCR), compatibility with CiscoWorks LAN Management Solution (LMS) 2.6

- Availability of Monitoring Only mode

- Threshold setting and threshold violation alerting capabilities
- New QoS features: hierarchical QoS, network-based application recognition packet description language module (NBAR PDLM), virtual channel bundle, and time-based access control lists (ACLs)
- Simplified high-level workflows for network selection, QoS provisioning, QoS monitoring, and reporting

CiscoWorks Integration

As a CiscoWorks application, CiscoWorks QPM integrates with the extensive features and capabilities of other CiscoWorks products, including the import of detailed device credential data from CiscoWorks DCR, providing data consistency among CiscoWorks products. CiscoWorks QPM also utilizes the features of CiscoWorks Common Services Software.

Device Support

CiscoWorks QPM supports an extensive range of Cisco wide-area network (WAN) and local-area network (LAN) networking equipment. QoS statistics can be monitored for all Cisco devices supporting the following management information databases (MIBs): the Class-Based QoS (CBQoS) MIB for modular QoS policies and the Committed Access Rate (CAR) MIB for nonmodular QoS policies. Version 4.0 provides a comprehensive device/OS upgrade support package, including up-to-date support of the QoS command-line interface (CLI) on all Cisco routers except high-end routers and all Cisco Catalyst® switches at the current OS level. CiscoWorks QPM can be easily upgraded to support new devices as they become available or to meet market demand.

Licensing

CiscoWorks QPM is licensed on the basis of the number of devices to be managed and the features options selected: combined QoS provisioning and monitoring, or monitoring only. Customers must purchase a software license for the CiscoWorks QPM feature options selected and for the appropriate device count increments for the desired count of managed devices. Additionally, a small and medium-sized business (SMB) version is available.

Computing Platform Requirements

CiscoWorks QPM can be installed on either a Windows server or a Solaris server. Please refer to the recommended configurations given in Tables 2 through 4 for detailed information on preparing your network for CiscoWorks QPM deployment.

Table 2. CiscoWorks QPM Server Requirement – Windows

Server Component	Specification for Small or Medium-Size Deployment	Specification for Large-Size Deployment
Processor	2.8 GHz Intel Pentium 4 or 2.8 GHz Intel Xeon	Dual core 2.8 GHz Intel Pentium 4 or dual 2.8 GHz Xeon
Memory	2 GB RAM	4 GB RAM
Virtual memory	Double the amount of RAM	Double the amount of RAM
Disk space	40 GB (The available disk space required depends on the tasks you want to do in CiscoWorks QPM.) CiscoWorks Common Services Software 3.0.5 requires 2 GB free disk space; therefore, make sure that you have a minimum of 9 GB free disk space before you install CiscoWorks Common Services 3.0.5 and CiscoWorks QPM.	80 GB (The available disk space required depends on the tasks you want to do in CiscoWorks QPM.) CiscoWorks Common Services Software 3.0.5 requires 2 GB free disk space; therefore, make sure that you have a minimum of 9 GB free disk space before you install CiscoWorks Common Services 3.0.5 and CiscoWorks QPM.

Software	Windows 2003 Server (Standard and Enterprise versions with Service Pack 1)	Windows 2003 Server (Standard and Enterprise versions with Service Pack 1)
	Windows 2003 R2 Server (Standard and Enterprise)	Windows 2003 R2 Server (Standard and Enterprise)
Browser	Microsoft Internet Explorer 6.0 with Service Pack 2	Microsoft Internet Explorer 6.0 with Service Pack 2
	Netscape 7.1	Netscape 7.1

Table 3. CiscoWorks QPM Server Requirement – Solaris

Server Component	Specification for Small or Medium-Size Deployment	Specification for Large-Size Deployment
Processor	Sun UltraSPARC IIIi or Sun UltraSPARC IIICu	Sun Dual UltraSPARC IIIi or Sun Dual UltraSPARC IIICu
Memory	2 GB RAM	4 GB RAM
Disk space	80 GB (The available disk space required depends the tasks you want to do in CiscoWorks QPM.) CiscoWorks Common Services Software 3.0.5 requires 2 GB free disk space; therefore, make sure that you have a minimum of 9 GB free disk space before you install CiscoWorks Common Services 3.0.5 and CiscoWorks QPM.	80 GB (The available disk space required depends the tasks you want to do in CiscoWorks QPM.) CiscoWorks Common Services Software 3.0.5 requires 2 GB free disk space; therefore, make sure that you have a minimum of 9 GB free disk space before you install CiscoWorks Common Services 3.0.5 and CiscoWorks QPM.
Software	Solaris 8 or Solaris 9 It is recommended that you install the Solaris OS in the following modes: Entire Distribution Entire Distribution plus OEM Support End User System Support	Solaris 8 or Solaris 9 It is recommended that you install the Solaris OS in the following modes: Entire Distribution Entire Distribution plus OEM Support End User System Support
Browser	Netscape 7.0	Netscape 7.0

Table 4. CiscoWorks QPM Client Requirement

Client Component	Specification
System hardware and software	Any of the following systems: • IBM PC compatible computer with 1 GHz Pentium IV processor, running Windows • Sun UltraSPARC IIIi, running Solaris 8 or 9 Any of the following OSs: • Windows XP Service Pack 1 or Service Pack 2 • Windows 2003 Server and Enterprise Edition • Windows 2003 Server and Enterprise Edition with Service Pack 1 • Windows 2003 R2 Server (Standard and Enterprise) • Solaris 8 or 9
Memory	512 MB
Browser	On Windows clients: • Internet Explorer 6.0 (version 6.0.2600) • Internet Explorer 6.0 with Service Pack 1 (version 6.0.2800) • Internet Explorer 6.0 with Service Pack 2 (version 6.0.2900) for Windows XP • Internet Explorer 6.0 with Service Pack 1 (version 6.0.3790.1830) for Windows 2003 R2 • Netscape 7.1 On Solaris clients: • Netscape 7.0

Ordering Information

To place an order, visit the [Cisco Ordering Home Page](#). Table 5 lists ordering information for CiscoWorks QPM.

Table 5. CiscoWorks QPM Ordering Information

Product Description	Part Number

QPM combined (configuration and monitoring) base license, includes 500 managed nodes	QPM-4.0-COMB-K9
QPM monitoring-only base license, includes 500 managed nodes	QPM-4.0-MON-K9
QPM incremental core license for 500 managed nodes	QPM-4.X-INCR-500
QPM incremental core license for 1000 managed nodes	QPM-4.X-INCR-1000
QPM incremental core license for 2000 managed nodes	QPM-4.X-INCR-2000
QPM upgrade from monitoring-only to combined (configuration and monitoring) base license	QPM-M2C-UPGR-K9
QPM upgrade from 3.x version to combined (configuration and monitoring) 4.x base license	QPM-3TO4-UPGR-K9
QPM SMB (configuration and monitoring) base license, includes 20 managed nodes	QPM-4.0-SMB-K9
QPM incremental core license for 500 managed nodes	QPM-4.X-INCR-500=
QPM incremental core license for 1000 managed nodes	QPM-4.X-INCR-1000=
QPM incremental core license for 2000 managed nodes	QPM-4.X-INCR-2000=

Service and Support

Cisco offers a wide range of services programs to accelerate customer success. These innovative services programs are delivered through a unique combination of people, processes, tools, and partners, resulting in high levels of customer satisfaction. Cisco services help you to protect your network investment, optimize network operations, and prepare the network for new applications to extend network intelligence and the power of your business. For more information about Cisco services, see Cisco Technical Support Services or Cisco Advanced Services.

For More Information

For more information about CiscoWorks Quality of Service Policy Manager, visit http://www.cisco.com/go/qpm/, contact your local account representative, or send an e-mail to ask-qpm-pm@cisco.com.

Americas Headquarters
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 527-0883

Asia Pacific Headquarters
Cisco Systems, Inc.
168 Robinson Road
#28-01 Capital Tower
Singapore 068912
www.cisco.com
Tel: +65 6317 7777
Fax: +65 6317 7799

Europe Headquarters
Cisco Systems International BV
Haarlerbergpark
Haarlerbergweg 13-19
1101 CH Amsterdam
The Netherlands
www-europe.cisco.com
Tel: +31 0 800 020 0791
Fax: +31 0 20 357 1100

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco Website at **www.cisco.com/go/offices.**

Printed in USA

C78-396862-02   05/07