

Chapter 13

Monitoring the JPS with the C-Web Interface

This chapter describes how to use the C-Web interface to monitor the Juniper Policy Server (JPS), a component of the SRC software that acts as a policy server in the PacketCable Multimedia Specification (PCMM) environment. You can use the C-Web interface to monitor the JPS on a Solaris platform or on a C-series Controller.

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For information about the JPS, see *Chapter 9, Using PCMM Policy Servers*.

Viewing Information About the JPS Server Process with the C-Web Interface

To view information about the JPS server process:

- Click **JPS > Statistics > Process**.

The Statistics/Process pane displays the JPS server process information.

The screenshot shows the Juniper C-Web interface. The top navigation bar includes 'Monitor', 'Configure', 'Diagnose', and 'Manage'. The user is logged in as 'admin'. The main content area is titled 'JPS Statistics / Process' and displays the following information:

JPS Server Process	
JPS server up time(seconds)	1250
JPS server up since	Tue Aug 07 12:13:03 EDT 2007
JPS server thread(s)	33
Heap used(byte)	10547088 (3%)
Heap limit(byte)	400000000

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Viewing JPS AM Statistics with the C-Web Interface

To view information about recent performance statistics for the application manager-to-policy server interface:

- Click **JPS > Statistics > AM**.

The Statistics/AM pane displays performance statistics for the application manager-to-policy server interface.

The screenshot displays the Juniper C-Web Interface. At the top, there are navigation tabs: Monitor, Configure, Diagnose, and Manage. The user is logged in as 'admin'. On the right side of the top bar, there are links for Refresh, Preferences, About, and Logout. A left-hand navigation menu lists various system components: CLI, Component, Date, Disk, Interfaces..., JPS, NIC, NTP, Redirect Server, Route..., SAE, Security, and System. The main content area shows the 'JPS' section expanded to 'Statistics / AM'. Underneath, it displays 'JPS AM Interface (PKT-MM-3)' with a table of statistics:

Connections opened	0
Connections closed	0

At the bottom of the interface, there is a footer with the copyright notice: 'Copyright © 2007, Juniper Networks, Inc. All Rights Reserved. Trademark Notice. Privacy.' and the Juniper logo with the tagline 'Juniper your Net.'

Viewing JPS AM Connections with the C-Web Interface

To view information about the current JPS network connections for the application manager:

1. Click **JPS > Statistics > AM > Connections**.

The Statistics/AM/Connections pane appears.



2. In the IP Address box, enter the IP address, or leave the box blank to display all AM connections.
3. Click **OK**.

The Statistics/AM/Connections pane displays the AM connection statistics.

Viewing JPS CMTS Statistics with the C-Web Interface

To view information about recent performance statistics for the policy server-to-CMTS interface:

- Click **JPS > Statistics > CMTS**.

The Statistics/CMTS pane displays statistics for the policy server-to-CMTS interface.

The screenshot shows the Juniper C-Web Interface. The top navigation bar includes 'Monitor', 'Configure', 'Diagnose', and 'Manage'. The user is logged in as 'admin'. The main content area is titled 'JPS Statistics / CMTS'. A table displays statistics for the 'JPS CMTS Interface (PKT-MM-2)'. The table has two columns: the metric name and its value.

JPS CMTS Interface (PKT-MM-2)	
Connections opened	0
Connections closed	0
Sync-Request/SSQ broadcasts	0
Avg sync time (last 10 syncs, ms)	0
Timed out syncs	0

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Viewing JPS CMTS Connections with the C-Web Interface

To view information about the current JPS network connections for the CMTS device:

1. Click **JPS > Statistics > CMTS > Connections**.

The Statistics/CMTS/Connections pane appears.



2. In the IP Address box, enter the IP address, or leave the box blank to display all CMTS connections.
3. Click **OK**.

The Statistics/CMTS/Connections pane displays the CMTS connection statistics.

Viewing JPS CMTS Locator Statistics with the C-Web Interface

To view information about the recent performance statistics for the CMTS locator:

- Click **JPS > Statistics > CMTS Locator**.

The Statistics/CMTS Locator pane displays the CMTS locator statistics.

The screenshot displays the Juniper C-Web Interface. The top navigation bar includes 'Monitor', 'Configure', 'Diagnose', and 'Manage'. The user is logged in as 'admin'. The main content area shows the 'JPS' section with a sub-menu for 'Statistics / CMTS Locator'. The statistics are as follows:

JPS CMTS Locator		
Number of lookups		0
Number of no-match lookups		0
Number of lookup errors		0
Minimum lookup time (ms)		0
Average lookup time (last 100 lookups, ms)		0
Maximum lookup time (ms)		0

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Viewing JPS Message Handler Statistics with the C-Web Interface

To view information about the JPS message handler:

- Click **JPS > Statistics > Message Handler**.

The Statistics/Message Handler pane displays the JPS message handler statistics.

The screenshot shows the Juniper C-Web Interface. The top navigation bar includes 'Monitor', 'Configure', 'Diagnose', and 'Manage'. The user is logged in as 'admin'. The main content area is titled 'JPS Statistics / Message Handler'. A table displays the following statistics:

JPS Message Handler	
Messages received	0
Message handled	0
Message dropped	0
Average non-decoding time in JPS (last 5000 messages, ms)	0
Throughput (last 60s, msgs/s)	0

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Viewing JPS Message Flow Statistics with the C-Web Interface

To view information about JPS message flows:

1. Click **JPS > Statistics > Message Handler > Message Flows**.

The Statistics/Message Handler/Message Flow pane appears.



2. In the ID box, enter a message flow ID, or leave the box blank to display statistics for all message flows.
3. Click **OK**.

The Statistics/Message Handler/Message Flow pane displays the message flow statistics.

Viewing JPS RKS Statistics with the C-Web Interface

To view recent performance statistics for the policy server-to-record keeping server (RKS) interface:

- Click **JPS > Statistics > RKS**.

The Statistics/RKS pane displays statistics for the policy server-to-RKS interface.

The screenshot shows the C-Web interface with the following elements:

- Navigation Bar:** Monitor, Configure, Diagnose, Manage. Logged in as: admin. Refresh, Preferences, About, Logout.
- Left Sidebar:** CLI, Component, Date, Disk, Interfaces..., JPS, NIC, NTP, Redirect Server, Route..., SAE, Security, System.
- Main Content Area:**
 - Header: JPS Statistics / RKS
 - Section: JPS Radius Plugin
 - Table of statistics:

Statistic	Value
Initial-Gate-Set observed	0
Non-Initial-Gate-Set observed	0
Gate-Set-Acks observed	0
Gate-Set-Errs observed	0
Gate-Dels observed	0
Gate-Del-Acks observed	0
Gate-Del-Errs observed	0
Gate-Infos observed	0
Gate-Info-Acks observed	0
Gate-Info-Errs observed	0
Gate-Report-State-Close observed	0
Gate-Report-State-Close-EGI-Status-Unknown observed	0
Gate-Report-State-Non-Close observed	0
Synch-Requests observed	0
Synch-Reports observed	0
Policy-Request events sent	0
Policy-Update events sent	0
Policy-Delete events sent	0
Time-Change events broadcast	0
Gate-Infos sent	0
Gate-Info-Acks received	0