

## 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 'Monitor' tab is active, and the 'JPS' component is selected. The 'Statistics / Process' pane 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. The top navigation bar includes tabs for Monitor, Configure, Diagnose, and Manage. The user is logged in as 'admin'. On the left, a sidebar menu lists various components: CLI, Component, Date, Disk, Interfaces..., JPS (highlighted), NIC, NTP, Redirect Server, Route..., SAE, Security, and System. The main content area shows the 'JPS' section expanded to 'Statistics / AM'. Under the heading 'JPS AM Interface (PKT-MM-3)', there are two statistics: 'Connections opened' with a value of 0, and 'Connections closed' with a value of 0. The footer contains copyright information for Juniper Networks, Inc. (© 2007) and the Juniper logo.

## 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.

Monitor Configure Diagnose Manage Logged in as: admin Refresh Preferences About Logout

ACP CLI Component Date Disk Interfaces... Iptables... JPS NIC NTP Redirect Server Route... SAE Security System

**JPS**  
Statistics / AM / Connections

Ip Address

OK Reset

IP address for the application manager.  
*Value:* All or part of the IP address. If the IP address filter is not specified, all application managers are selected.  
*Default:* No value

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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' and 'Statistics / CMTS'. A table displays statistics for the 'JPS CMTS Interface (PKT-MM-2)'.

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.

The screenshot shows the JPS C-Web Interface. The top navigation bar includes 'Monitor', 'Configure', 'Diagnose', and 'Manage'. The user is logged in as 'admin'. The left sidebar lists various components: ACP, CLI, Component, Date, Disk, Interfaces..., Iptables..., JPS (highlighted), NIC, NTP, Redirect Server, Route..., SAE, Security, and System. The main content area is titled 'Statistics / CMTS / Connections'. It features an 'Ip Address' input box with a 'Reset' button. A tooltip explains that the IP address is for the CMTS device, with a value of 'All or part of the IP address' and a default of 'No value'. The footer contains copyright information for Juniper Networks, Inc. and the Juniper logo.

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 shows the Juniper C-Web Interface. The top navigation bar includes tabs for Monitor, Configure, Diagnose, and Manage. The user is logged in as 'admin'. The left sidebar contains a tree view with categories like CLI, Component, Date, Disk, Interfaces..., JPS, NIC, NTP, Redirect Server, Route..., SAE, Security, and System. The main content area displays the 'JPS CMTS Locator' statistics table.

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 left sidebar lists various system components: CLI, Component, Date, Disk, Interfaces..., JPS, NIC, NTP, Redirect Server, Route..., SAE, Security, and System. The 'JPS' component is selected, and the 'Statistics / Message Handler' pane is displayed. This pane shows a table of statistics for the JPS Message Handler.

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.

The screenshot shows the Juniper C-Web Interface. The top navigation bar includes 'Monitor', 'Configure', 'Diagnose', and 'Manage' tabs. The left sidebar lists various components: ACP, CLI, Date, Disk, Interfaces..., Iptables..., JPS, NIC, NTP, Redirect Server, Route..., SAE, Security, and System. The main content area is titled 'JPS Statistics / Message Handler / Message Flow'. It contains a form with an 'Id' input box and 'OK' and 'Reset' buttons. A tooltip for the 'Id' field reads: 'Identifier for message flow. Value: All or part of the message flow ID. If the message flow ID filter is not specified, all message flows are selected. Default: No value'.

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.

Monitor

Configure

Diagnose

Manage

Logged in as: admin

Refresh

Preferences

About

Logout

CLI

Component

Date

Disk

Interfaces...

JPS

NIC

NTP

Redirect Server

Route...

SAE

Security

System

JPS

Statistics / RKS

JPS Radius Plugin

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