

Chapter 16

Monitoring SAE Data with the C-Web Interface

This chapter describes how to use the C-Web interface to monitor SAE data. Topics include:

- Viewing SAE Data with the C-Web Interface on page 125
- Viewing Information About Subscriber Sessions with the C-Web Interface on page 134
- Viewing SNMP Information with the C-Web Interface on page 140

Viewing SAE Data with the C-Web Interface

You can view data currently stored in the SAE server's memory for:

- Directory blacklist
- Services
- Licenses
- Policies
- Devices
- Interfaces
- Login registrations
- Equipment registrations
- Threads
- Subscriber Sessions

Viewing Information About the Directory Blacklist

To view information about the directory blacklist configured on the SAE:

1. Click **Monitor > SAE > Directory Blacklist**.

The Directory Blacklist pane appears.

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'. On the left, a sidebar menu lists various components: ACP, CLI, Component, Date, Disk, Interfaces..., Iptables..., JPS, NIC, NTP, Redirect Server, Route..., SAE (highlighted), Security, and System. The main content area is titled 'SAE' and 'Directory Blacklist'. It contains a 'Slot' input box with a text description: 'Display SAE information for a specified slot. Value: Currently the chassis has only one slot. The valid value is 0. Default: 0'. Below the input box are 'OK' and 'Reset' buttons. The footer of the interface displays copyright information for Juniper Networks, Inc. (© 2007) and the slogan 'Juniper your Net.'

2. In the Slot box, enter the number of the slot for which you want to display directory blacklist information.

The Directory Blacklist pane displays the directory blacklist information.

Viewing Information About Services

To view information about the services available on the SAE:

1. Click **Monitor > SAE > Services**.

The Services pane appears.

Field	Description	Default
Maximum Results	Number of results to be displayed.	25
Service Name	Name of service.	No value
Secret	Display subscriber sessions and service sessions for hidden services.	Disabled
Slot	Display SAE information for a specified slot.	0
Style	Output style	Detail

2. In the Maximum Results box, enter the maximum number of results that you want to receive.
3. In the Service Name box, enter a full or partial service name for which you want to display information, or leave the box blank to display all services.
4. Select the **Secret** check box to set a flag indicating that secret services are displayed.
5. In the Slot box, enter the number of the slot for which you want to display services information.
6. Select an output style from the Style list.
7. Click **OK**.

The Services pane displays the status of the services running on the SAE.

Viewing Information About Licenses

To view information about licenses:

1. Click **Monitor > SAE > Licenses**.

The Licenses pane appears.

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 configuration options: ACP, CLI, Component, Date, Disk, Interfaces..., Iptables..., JPS, NIC, NTP, Redirect Server, Route..., SAE (highlighted), Security, and System. The main content area is titled 'SAE Licenses'. It contains a 'Slot' input field with a text box next to it that reads: 'Display SAE information for a specified slot. Value: Currently the chassis has only one slot. The valid value is 0. Default: 0'. Below the input field are 'OK' and 'Reset' buttons. The footer of the interface shows the copyright notice 'Copyright © 2007, Juniper Networks, Inc. All Rights Reserved. Trademark Notice. Privacy.' and the Juniper logo with the tagline 'Juniper your Net.'

2. In the Slot box, enter the number of the slot for which you want to display license information.
3. Click **OK**.

The Licenses pane displays license information.

Viewing Information About Policies

To view information about the policies available on the SAE:

1. Click **Monitor > SAE > Policies**.

The Policies pane appears.

Policy Group	Maximum Results	Slot	Style
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Name of a policy group. <i>Value:</i> All or part of the policy group name <i>Default:</i> No value	Number of results to be displayed. <i>Legal range:</i> 1..INF <i>Default:</i> 25	Display SAE information for a specified slot. <i>Value:</i> Currently the chassis has only one slot. The valid value is 0. <i>Default:</i> 0	Output style. <i>Choices:</i> brief: Display only policy group names <i>Default value:</i> detail

OK Reset

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2. In the Policy Group box, enter a full or partial policy name for which you want to display information, or leave the box blank to display all policies.
3. In the Maximum Results box, enter the maximum number of results that you want to receive.
4. In the Slot box, enter the number of the slot for which you want to display policy information.
5. Select an output style from the Style list.
6. Click **OK**.

The Policies pane displays the status of the policies configured on the SAE.

Viewing Information About Device Drivers

To view information about the device drivers available on the SAE:

1. Click **Monitor > SAE > Drivers**.

The Drivers pane appears.

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: ACP, CLI, Component, Date, Disk, Interfaces..., Iptables..., JPS, NIC, NTP, Redirect Server, Route..., SAE (highlighted), Security, and System. The main content area is titled 'SAE Drivers'. It contains a form with the following fields: 'Device Name' (a text input box), 'Maximum Results' (a text input box), 'Slot' (a text input box with the value '0'), and 'Style' (a dropdown menu). Below these fields are 'OK' and 'Reset' buttons. The footer of the interface displays the copyright notice 'Copyright © 2007, Juniper Networks, Inc. All Rights Reserved. Trademark Notice. Privacy.' and the Juniper logo with the tagline 'Juniper your Net.'

2. In the Device Name box, enter a full or partial device driver name for which you want to display information, or leave the box blank to display all devices.

For JUNOSe router drivers, use the format:

<virtual router name>@<router name>

For JUNOS router drivers and PCMM drivers, use the format:

default@<router name>

3. In the Maximum Results box, enter the maximum number of results that you want to receive.
4. In the Slot box, enter the number of the slot for which you want to display device information.
5. Select an output style from the Style list.
6. Click **OK**.

The Drivers pane displays the status of the devices running on the SAE.

Viewing Information About Interfaces

To view information about the interfaces available on the router:

1. Click **Monitor > SAE > Interfaces**.

The Interfaces pane appears.

SAE		
Interfaces		
Interface Name	<input type="text"/>	Name of router interface. <i>Value:</i> All or part of the interface name <i>Default:</i> No value
Maximum Results	<input type="text"/>	Number of results to be displayed. <i>Legal range:</i> 1..INF <i>Default:</i> 25
Slot	<input type="text"/>	Display SAE information for a specified slot. <i>Value:</i> Currently the chassis has only one slot. The valid value is 0. <i>Default:</i> 0
Style	<input type="text" value="Detail"/>	Output style. <i>Choices:</i> brief: Display only interface names <i>Default:</i> Detail
Virtual Router	<input type="text"/>	Name of virtual router. <i>Value:</i> All or part of the virtual router name <i>Default:</i> No value
<input type="button" value="OK"/> <input type="button" value="Reset"/>		

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2. In the Interface Name box, enter the name of the router interface for which you want to display information. or leave the box blank to display information about all router interfaces.
3. In the Maximum Results box, enter the maximum number of results that you want to receive.
4. In the Slot box, enter the number of the slot for which you want to display interface information.
5. Select an output style from the Style list.
6. In the Virtual Router box, enter the name of the virtual router for which you want to display interfaces, or leave the box blank to display information for all virtual routers.
7. Click **OK**.

The Interfaces pane displays the interfaces available on the router.

Viewing Equipment Registrations

You can view all equipment registrations, or you can view a specific registration.

For information about login and equipment registrations, see *SRC-PE Sample Applications Guide*.

To view information about equipment registrations:

1. Click **Monitor > SAE > Registered > Equipment**.

The Registered/Equipment pane appears.

The screenshot shows the Juniper SRC-PE C-Web Interface. The top navigation bar includes 'Monitor', 'Configure', 'Diagnose', and 'Manage'. The 'Monitor' menu is expanded, showing 'ACP', 'CLI', 'Component', 'Date', 'Disk', 'Interfaces...', 'Iptables...', 'JPS', 'NIC', 'NTP', 'Redirect Server', 'Route...', 'SAE', 'Security', and 'System'. The 'SAE' menu is further expanded to show 'Registered / Equipment'. The main content area displays the configuration for 'Registered / Equipment'. It includes four input fields: 'Mac Address' (with a text box and a description: 'MAC address of equipment registrations. Value: MAC address in the format xx:xx:xx:xx:xx:xx. Default: No value'), 'Maximum Results' (with a text box and a description: 'Number of results to be displayed. Legal range: 1..INF. Default: 25'), 'Slot' (with a text box and a description: 'Display SAE information for a specified slot. Value: Currently the chassis has only one slot. The valid value is 0. Default: 0'), and 'Style' (with a dropdown menu and a description: 'Output style. Choices: brief: Display only MAC address of registered equipment. Default: Detail'). Below the input fields are 'OK' and 'Reset' buttons. The footer of the interface shows 'Copyright © 2007, Juniper Networks, Inc. All Rights Reserved. Trademark Notice. Privacy.' and the Juniper logo with the tagline 'Juniper Your Net.'

2. In the MAC Address box, enter a MAC address that specifies the equipment registrations that you want to display.

Use the format:

xx:xx:xx:xx:xx:xx

3. In the Maximum Results box, enter the maximum number of results that you want to receive.
4. In the Slot box, enter the number of the slot for which you want to display equipment registration information.
5. Select an output style from the Style list.
6. Click **OK**.

The Registered/Equipment pane displays information about the equipment registrations.

Viewing Login Registrations

You can view all login registrations, or you can view a specific registration.

For information about login and equipment registrations, see *SRC-PE Sample Applications Guide*.

To view information about login registrations:

1. Click **Monitor > SAE > Registered > Login**.

The Registered/Login pane appears.

Component	Configuration	Description
Mac Address	<input type="text"/>	MAC address of login registrations. Value: MAC address in the format xx:xx:xx:xx:xx:xx Default: No value
Maximum Results	<input type="text"/>	Number of results to be displayed. Legal range: 1..INF Default: 25
Slot	<input type="text"/>	Display SAE information for a specified slot. Value: Currently the chassis has only one slot. The valid value is 0. Default: 0
Style	<input type="text"/>	Output style Choices: brief: Display only MAC address of login registrations Default: Detail

2. In the MAC Address box, enter a MAC address that specifies the login registrations that you want to display.

Use the format:

xx:xx:xx:xx:xx:xx
3. In the Maximum Results box, enter the maximum number of results that you want to receive.
4. In the Slot box, enter the number of the slot for which you want to display login registration information.
5. Select an output style from the Style list.
6. Click **OK**.

The Registered/Login pane displays information about the login registrations.

Viewing Information About Threads

To view information about the threads and their priority on the SAE:

1. Click **Monitor > SAE > Threads**.

The Threads pane appears.



2. In the Slot box, enter the number of the slot for which you want to display thread information.
3. Click **OK**.

The Threads pane displays information about threads.

Viewing Information About Subscriber Sessions with the C-Web Interface

You can list subscriber sessions by the distinguished name (DN) of the subscriber entry in the directory, by login name, or by session ID. You can also list subscriber sessions by IP address for Dynamic Host Configuration Protocol (DHCP) subscribers, authenticated Point-to-Point Protocol (PPP) subscribers, and static IP subscribers who are being managed by the SAE.

Viewing Information About Subscriber Sessions by DN

To view information about subscriber sessions by DN:

1. Click **Monitor > SAE > Subscribers > DN**.

The Subscribers/DN pane appears.

Component	Field	Description
Subscriber DN	<input type="text"/>	DN of the subscribers. <i>Value:</i> All or part of the subscriber DN <i>Default:</i> No value
Maximum Results	<input type="text"/>	Number of results to be displayed. <i>Legal range:</i> 1..INF <i>Default:</i> 25
Secret	<input type="checkbox"/>	Display subscriber sessions and service sessions for hidden services. <i>Default:</i> Disabled
Slot	<input type="text"/>	Display SAE information for a specified slot. <i>Value:</i> Currently the chassis has only one slot. The valid value is 0. <i>Default:</i> 0
Style	<input type="text"/>	Output style <i>Choices:</i> brief: Display only subscriber sessions terse: Display subscriber session ID, login name, and IP address <i>Default:</i> Detail

OK Reset

2. In the Subscriber DN box, enter a full or partial subscriber DN for which you want to display information, or leave the box blank to display all subscriber sessions.
3. In the Maximum Results box, enter the maximum number of results that you want to receive.
4. Select the **Secret** check box to set a flag indicating that subscriptions and service sessions from hidden services are displayed.
5. In the Slot box, enter the number of the slot for which you want to display subscriber session information.
6. Select an output style from the Style list.
7. Click **OK**.

The Subscribers/DN pane displays information about subscriber sessions.

Viewing Information About Subscribers by IP Address

To view information about subscriber sessions by IP address:

1. Click **Monitor > SAE > Subscribers > IP**.

The Subscribers/IP pane appears.

Monitor		Configure	Diagnose	Manage	Logged in as: admin	Refresh	Preferences	About	Logout
ACP	SAE								
CLI	Subscribers / IP								
Component									
Date									
Disk									
Interfaces...									
Iptables...									
JPS									
NIC									
NTP									
Redirect Server									
Route...									
SAE									
Security									
System									

IP Address	<input type="text"/>	IP address of subscriber sessions. <i>Value:</i> All or part of the subscriber IP address <i>Default:</i> No value
Maximum Results	<input type="text"/>	Number of results to be displayed. <i>Legal range:</i> 1..INF <i>Default:</i> 25
Secret	<input type="checkbox"/>	Display subscriber sessions and service sessions for hidden services. <i>Default:</i> Disabled
Slot	<input type="text"/>	Display SAE information for a specified slot. <i>Value:</i> Currently the chassis has only one slot. The valid value is 0. <i>Default:</i> 0
Style	<input type="text"/>	Output style <i>Choices:</i> brief: Display only subscriber sessions terse: Display subscriber session ID, login name, and IP address <i>Default:</i> Detail

OK Reset

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2. In the IP Address box, enter a full or partial IP address for which you want to display information, or leave the box blank to display all subscriber sessions.
3. In the Maximum Results box, enter the maximum number of results that you want to receive.
4. Select the **Secret** check box to set a flag indicating that subscriptions and service sessions from hidden services are displayed.
5. In the Slot box, enter the number of the slot for which you want to display subscriber session information.
6. Select an output style from the Style list.
7. Click **OK**.

The Subscribers/IP pane displays information about subscriber sessions.

Viewing Information About Subscriber Sessions by Login Name

To view information about subscriber sessions by login name:

1. Click **Monitor > SAE > Subscribers > Login Name**.

The Subscribers/Login Name pane appears.

Monitor	Configure	Diagnose	Manage	Logged in as: admin	Refresh	Preferences	About	Logout
ACP	SAE							
CLI	Subscribers / Login Name							
Component								
Date								
Disk								
Interfaces...								
Iptables...								
JPS								
NIC								
NTP								
Redirect Server								
Route...								
SAE								
Security								
System								

Login Name	<input type="text"/>	Login name of subscriber sessions. <i>Value:</i> All or part of the subscriber login name <i>Default:</i> No value
Maximum Results	<input type="text"/>	Number of results to be displayed. <i>Legal range:</i> 1..INF <i>Default:</i> 25
Secret	<input type="checkbox"/>	Display subscriber sessions and service sessions for hidden services. <i>Default:</i> Disabled
Slot	<input type="text"/>	Display SAE information for a specified slot. <i>Value:</i> Currently the chassis has only one slot. The valid value is 0. <i>Default:</i> 0
Style	<input type="text"/>	Output style <i>Choices:</i> brief: Display only subscriber sessions terse: Display subscriber session ID, login name, and IP address <i>Default:</i> Detail

OK Reset

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2. In the Login Name box, enter a full or partial login name for which you want to display information, or leave the box blank to display all subscriber sessions.
3. In the Maximum Results box, enter the maximum number of results that you want to receive.
4. Select the **Secret** check box to set a flag indicating that subscriptions and service sessions from hidden services are displayed.
5. In the Slot box, enter the number of the slot for which you want to display subscriber session information.
6. Select an output style from the Style list.
7. Click **OK**.

The Subscribers/Login Name pane displays information about subscriber sessions.

Viewing Information About Subscriber Sessions by Service Name

To view information about subscriber sessions by service name:

1. Click **Monitor > SAE > Subscribers > Service Name**.

The Subscribers/Service Name pane appears.

Field	Description	Default
Service Name	Service name of subscriber sessions. <i>Value:</i> All or part of the service name	No value
Maximum Results	Number of results to be displayed. <i>Legal range:</i> 1..INF	25
Secret	Display subscriber sessions and service sessions for hidden services.	Disabled
Slot	Display SAE information for a specified slot. <i>Value:</i> Currently the chassis has only one slot. The valid value is 0.	0
Style	Output style <i>Choices:</i> brief: Display only subscriber sessions terse: Display subscriber session ID, login name, and IP address	Detail

2. In the Service Name box, enter a full or partial service name for which you want to display information, or leave the box blank to display all subscriber sessions.
3. In the Maximum Results box, enter the maximum number of results that you want to receive.
4. Select the **Secret** check box to set a flag indicating that subscriptions and service sessions from hidden services are displayed.
5. In the Slot box, enter the number of the slot for which you want to display subscriber session information.
6. Select an output style from the Style list.
7. Click **OK**.

The Subscribers/Service Name pane displays information about subscriber sessions.

Viewing Information About Subscriber Sessions by Session ID

To view information about subscriber sessions by session ID:

1. Click **Monitor > SAE > Subscribers > Session ID**.

The Subscribers/Session ID pane appears.

Monitor		Configure	Diagnose	Manage	Logged in as: admin	Refresh	Preferences	About	Logout
ACP	SAE								
CLI	Subscribers / Session ID								
Component									
Date									
Disk									
Interfaces...									
Iptables...									
JPS									
NIC									
NTP									
Redirect Server									
Route...									
SAE									
Security									
System									

Session ID	<input type="text"/>	ID of subscriber sessions. <i>Value:</i> All or part of the subscriber session ID <i>Default:</i> No value
Maximum Results	<input type="text"/>	Number of results to be displayed. <i>Legal range:</i> 1..INF <i>Default:</i> 25
Secret	<input type="checkbox"/>	Display subscriber sessions and service sessions for hidden services. <i>Default:</i> Disabled
Slot	<input type="text"/>	Display SAE information for a specified slot. <i>Value:</i> Currently the chassis has only one slot. The valid value is 0. <i>Default:</i> 0
Style	<input type="text"/>	Output style <i>Choices:</i> brief: Display only subscriber sessions terse: Display subscriber session ID, login name, and IP address <i>Default:</i> Detail

OK Reset

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2. In the Session ID box, enter a full or partial session ID name for which you want to display information, or leave the box blank to display all subscriber sessions.
3. In the Maximum Results box, enter the maximum number of results that you want to receive.
4. Select the **Secret** check box to set a flag indicating that subscriptions and service sessions from hidden services are displayed.
5. In the Slot box, enter the number of the slot for which you want to display subscriber session information.
6. Select an output style from the Style list.
7. Click **OK**.

The Subscribers/Session ID pane displays information about subscriber sessions.

Viewing SNMP Information with the C-Web Interface

You can use the C-Web interface to view SNMP statistics for the SAE configuration of:

- Directory
- Licenses
- Policies
- Server processes
- RADIUS
- Devices
- Subscriber sessions and service sessions

Viewing SNMP Statistics for the Directory

To view SNMP statistics for the directory:

1. Click **Monitor > SAE > Statistics > Directory**.

The Statistics/Directory pane appears.



2. In the Slot box, enter the number of the slot for which you want to display SNMP statistics for the directory.
3. Click **OK**.

The Statistics/Directory pane displays statistics for the directory.

Viewing SNMP Statistics for Directory Connections

To view SNMP statistics for directory connections:

1. Click **Monitor > SAE > Statistics > Directory > Connections**.

The Statistics/Directory/Connections pane appears.

2. In the Connection ID box, enter a full or partial connection ID for which you want to display information, or leave the box blank to display all SNMP statistics for all directory connections.
3. In the Slot box, enter the number of the slot for which you want to display SNMP statistics for directory connections.
4. Select an output style from the Style list.
5. Click **OK**.

The Statistics/Connections pane displays statistics for directory connections.

Viewing SNMP Statistics for Client Licenses

To view SNMP statistics for client licenses:

1. Click **Monitor > SAE > Statistics > License > Client**.

The Statistics/License/Client 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 system components: ACP, CLI, Date, Disk, Interfaces..., Iptables..., JPS, NIC, NTP, Redirect Server, Route..., SAE, Security, and System. The main content area displays the 'SAE Statistics / License / Client' pane. This pane contains a 'Slot' input box with a value of 0. A tooltip explains that the slot value is currently 0 and that the valid value is 0. Below the input box are 'OK' and 'Reset' buttons. The bottom of the interface shows the copyright notice for Juniper Networks, Inc. and the 'Juniper Your Net.' logo.

2. In the Slot box, enter the number of the slot for which you want to display SNMP statistics for client licenses.
3. Click **OK**.

The Statistics/License/Client pane displays statistics for client licenses.

Viewing SNMP Statistics for Licenses by Device

To view SNMP statistics for licenses by device:

1. Click **Monitor > SAE > Statistics > License > Device**.

The Statistics/License/Device pane appears.

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 shows a tree view with 'SAE' selected. The main content area is titled 'Statistics / License / Device'. It contains three input fields: 'Device Name' (a text box), 'Slot' (a text box), and 'Style' (a dropdown menu). To the right of these fields is a help area with the following text: 'Name of a device. Value: All or part of the device name.' followed by two bullet points: 'For JUNOS router drivers, use the format virtualRouterName@routerName.' and 'For JUNOS router drivers and PCMM drivers, use the format default@routerName.' Below this is 'Default: No value'. For the 'Slot' field, the text is 'Display SAE information for a specified slot. Value: Currently the chassis has only one slot. The valid value is 0. Default: 0'. For the 'Style' field, the text is 'Output style Choices: brief: Display only device names Default: Detail'. At the bottom of the form are 'OK' and 'Reset' buttons. The footer of the interface shows 'Copyright © 2007, Juniper Networks, Inc. All Rights Reserved. Trademark Notice. Privacy.' and the Juniper logo.

2. In the Device Name box, enter a full or partial device name for which you want to display information, or leave the box blank to display SNMP statistics for all devices.

For JUNOS router drivers, use the format:

<virtual router name>@<router name>

For JUNOS router drivers and PCMM drivers, use the format:

default@<router name>

3. In the Slot box, enter the number of the slot for which you want to display SNMP statistics for device licenses.
4. Select an output style from the Style list.
5. Click **OK**.

The Statistics/License/Device pane displays statistics for virtual router licenses.

Viewing SNMP Statistics for Local Licenses

To view SNMP statistics for local licenses:

1. Click **Monitor > SAE > Statistics > License > Local**.

The Statistics/License/Local pane appears.

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 'SAE Statistics / License / Local'. On the left is a sidebar menu with options like ACP, CLI, Component, Date, Disk, Interfaces..., Iptables..., JPS, NIC, NTP, Redirect Server, Route..., SAE (highlighted), Security, and System. The main pane contains a 'Slot' input field with a text box next to it that reads: 'Display SAE information for a specified slot. Value: Currently the chassis has only one slot. The valid value is 0. Default: 0'. Below the input field are 'OK' and 'Reset' buttons. The footer shows the copyright notice for Juniper Networks, Inc. and the Juniper logo.

2. In the Slot box, enter the number of the slot for which you want to display SNMP statistics for local licenses.
3. Click **OK**.

The Statistics/License/Local pane displays statistics for local licenses.

Viewing SNMP Statistics About Policies

To view SNMP statistics about policies:

- Click **Monitor > SAE > Statistics > Policy Management**.

The Statistics/Policy Management pane appears.

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 ACP, CLI, Component, Date, Disk, Interfaces..., Iptables..., JPS, NIC, NTP, Redirect Server, Route..., SAE (highlighted), Security, and System. The main content area is titled 'SAE Statistics / Policy Management'. It features a 'Slot' input box with a text description: 'Display SAE information for a specified slot. Value: Currently the chassis has only one slot. The valid value is 0. Default: 0.' Below the input box are 'OK' and 'Reset' buttons. The footer contains copyright information for Juniper Networks, Inc. and the Juniper logo.

4. In the Slot box, enter the number of the slot for which you want to display SNMP statistics for policies.
5. Click **OK**.

The Statistics/Policy Management pane displays statistics for policies.

Viewing SNMP Statistics About Server Processes

To view SNMP statistics about server processes:

1. Click **Monitor > SAE > Statistics > Process**.

The Statistics/Process pane appears.

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 ACP, CLI, Component, Date, Disk, Interfaces..., Iptables..., JPS, NIC, NTP, Redirect Server, Route..., SAE (highlighted), Security, and System. The main content area is titled 'SAE Statistics / Process'. It features a 'Slot' input box with a text description: 'Display SAE information for a specified slot. Value: Currently the chassis has only one slot. The valid value is 0. Default: 0'. Below the input box are 'OK' and 'Reset' buttons. The footer contains copyright information for Juniper Networks, Inc. (2007) and the Juniper logo.

2. In the Slot box, enter the number of the slot for which you want to display SNMP statistics for server processes.
3. Click **OK**.

The Statistics/Process pane displays statistics for server processes.

Viewing SNMP Statistics About RADIUS

To view SNMP statistics about RADIUS:

1. Click **Monitor > SAE > Statistics > RADIUS**.

The Statistics/RADIUS pane appears.

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 components: ACP, CLI, Component, Date, Disk, Interfaces..., Iptables..., JPS, NIC, NTP, Redirect Server, Route..., SAE (highlighted), Security, and System. The main content area is titled 'SAE Statistics / RADIUS'. It contains a 'Slot' input box with a dropdown arrow. To the right of the input box is a text area that reads: 'Display SAE information for a specified slot. Value: Currently the chassis has only one slot. The valid value is 0. Default: 0'. Below the input box are 'OK' and 'Reset' buttons. The footer of the interface shows the copyright notice 'Copyright © 2007, Juniper Networks, Inc. All Rights Reserved. Trademark Notice. Privacy.' and the Juniper logo with the tagline 'Juniper your Net.'

2. In the Slot box, enter the number of the slot for which you want to display SNMP statistics for RADIUS.
3. Click **OK**.

The Statistics/RADIUS pane displays statistics for RADIUS.

Viewing SNMP Statistics About RADIUS Clients

To view SNMP statistics about RADIUS clients:

1. Click **Monitor > SAE > Statistics > RADIUS > Client**.

The Statistics/RADIUS/Client pane appears.

The screenshot shows the Juniper SAE 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 'Statistics / RADIUS / Client'. It contains a table with the following fields:

Field	Value	Description
Client Type*	authentication	Display SNMP information for either RADIUS accounting clients or RADIUS authentication clients. <i>Choices:</i> accounting: Display RADIUS accounting client information authentication: Display RADIUS authentication client information <i>Default:</i> No value
Ip Address		IP address or addresses of RADIUS clients. <i>Value:</i> All or part of the client IP address <i>Default:</i> No value
Slot		Display SAE information for a specified slot. <i>Value:</i> Currently the chassis has only one slot. The valid value is 0. <i>Default:</i> 0
Style		Output style. <i>Choices:</i> brief: Display only clients accessible by IP address/port number <i>Default:</i> Detail
Udp Port		Port number for RADIUS clients. <i>Value:</i> All or part of the client port number <i>Default:</i> No value

Below the table, there is a note: '*Mandatory'. At the bottom of the form are 'OK' and 'Reset' buttons.

2. Select a client type from the Client Type list:
 - accounting—Displays RADIUS accounting information
 - authentication—Displays RADIUS client authentication information
3. In the IP Address box, enter the client IP address to display SNMP information for a specific RADIUS client, or leave the box blank to display SNMP information for all RADIUS clients.
4. In the Slot box, enter the number of the slot for which you want to display SNMP statistics for RADIUS clients.
5. Select an output style from the Style list.
6. In the UDP Port box, enter a port number to display SNMP information for a specific RADIUS client, or leave the box blank to display SNMP information for all RADIUS clients.
7. Click **OK**.

The Statistics/RADIUS/Client pane displays statistics for RADIUS clients.

Viewing SNMP Statistics for Devices

To view SNMP statistics about devices:

1. Click **Monitor > SAE > Statistics > Device**.

The Statistics/Device pane appears.

The screenshot shows the Juniper C-Web Interface with the following elements:

- Top Bar:** Monitor, Configure, Diagnose, Manage. Logged in as: admin. Refresh, Preferences, About, Logout.
- Left Sidebar:** ACP, CLI, Component, Date, Disk, Interfaces..., Iptables..., JPS, NIC, NTP, Redirect Server, Route..., SAE (highlighted), Security, System.
- Main Content Area:**
 - Header:** SAE Statistics / Device
 - Form Fields:**
 - Device Name:** A text input box.
 - Slot:** A numeric input box.
 - Style:** A dropdown menu.
 - Help Text:**
 - Name of a device.** Value: All or part of the device name.
 - For JUNOS router drivers, use the format virtualRouterName@routerName.
 - For JUNOS router drivers and PCMM drivers, use the format default@routerName.
 - Default:** No value
 - Display SAE information for a specified slot.** Value: Currently the chassis has only one slot. The valid value is 0. Default: 0
 - Output style** Choices: brief: Display only device names Default: Detail
 - Buttons:** OK, Reset
- Footer:** Copyright © 2007, Juniper Networks, Inc. All Rights Reserved. Trademark Notice. Privacy. Juniper your Net.

2. In the Device Name box, enter a full or partial device name for which you want to display information, or leave the box blank to display all devices.
3. In the Slot box, enter the number of the slot for which you want to display SNMP statistics for devices.
4. Select an output style from the Style list.
5. Click **OK**.

The Statistics/Device pane displays statistics for all devices.

Viewing SNMP Statistics for Specific Devices

To view SNMP statistics about specific devices:

1. Click **Monitor > SAE > Statistics > Device > Common**.

The Statistics/Device/Common pane appears.

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

SAE
Statistics / Device / Common

Device Name

Slot

Type

OK Reset

Name of a device.
Value: All or part of the device name.

- For JUNOS router drivers, use the format virtualRouterName@routerName.
- For JUNOS router drivers and PCMM drivers, use the format default@routerName.

Default: No value

Display SAE information for a specified slot.
Value: Currently the chassis has only one slot. The valid value is 0.
Default: 0

Display SNMP statistics for a specified device driver type.
Choices:

- junos: Display SNMP statistics for JUNOS router drivers
- junos-cops: Display SNMP statistics for JUNOS router drivers
- packetable-cops: Display SNMP statistics for PCMM device drivers
- proxy: Display SNMP statistics for third-party drivers

Default: No value

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2. In the Device Name box, enter a full or partial device name for which you want to display information, or leave the box blank to display all devices.
3. In the Slot box, enter the number of the slot for which you want to display SNMP statistics for specific devices.
4. Select a device type from the Type list:
 - junos—Displays SNMP statistics for JUNOS router drivers
 - junose-cops—Displays SNMP statistics for JUNOS router drivers
 - packetable-COPS—Displays SNMP statistics for PCMM device drivers
 - proxy—Displays SNMP statistics for third-party drivers
5. Click **OK**.

The Statistics/Device/Common pane displays statistics for the specified device.

Viewing SNMP Statistics for Subscriber Sessions and Service Sessions

To view SNMP statistics about subscriber sessions and service sessions:

1. Click **Monitor > SAE > Statistics > Sessions**.

The Statistics/Sessions pane displays statistics for subscriber sessions and service sessions.

The screenshot shows the Juniper C-Web Interface. The top navigation bar includes 'Monitor', 'Configure', 'Diagnose', and 'Manage' tabs. The left sidebar lists various system components: ACP, CLI, Date, Disk, Interfaces..., Iptables..., JPS, NIC, NTP, Redirect Server, Route..., SAE, Security, and System. The main content area is titled 'SAE Statistics / Sessions'. It features a 'Slot' input box with a value of 0. A text box explains: 'Display SAE information for a specified slot. Value: Currently the chassis has only one slot. The valid value is 0. Default: 0'. Below the input box are 'OK' and 'Reset' buttons. The footer shows copyright information for Juniper Networks, Inc. and the Juniper logo.

2. In the Slot box, enter the number of the slot for which you want to display SNMP statistics for specific devices.
3. Click **OK**.

The Statistics/Sessions pane displays statistics for subscriber sessions and service sessions.

