

SRC Configuration and Management Tools

The SRC software provides the following configuration and management tools:

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SRC CLI

The SRC CLI is the software interface that you use to configure, monitor, and manage a C-series Controller and SRC software. The SRC CLI uses the same operational model as the JUNOS CLI, which you use to configure and monitor JUNOS routing platforms.

The CLI provides numerous commands and statements and organizes them in a hierarchical fashion. Commands that perform a similar function are grouped together under the same level of the hierarchy. You type commands on a single line, and the commands are executed when you press the Enter key. The CLI provides command help and command completion, and supports Emacs-style keyboard sequences that allow you to move around on a command line and scroll through recently executed commands.

C-Web Interface

The C-Web interface is an application that allows you to configure, monitor, and manage a C-series Controller and SRC software by means of a Web browser through Hypertext Transfer Protocol (HTTP) or HTTP over Secure Sockets Layer (HTTPS). The C-Web interface uses the same operational model as the J-Web interface, which you use to configure and monitor JUNOS routing platforms.

The C-Web interface supports the configuration, monitoring, and management tasks that you can perform with the SRC CLI. Figure 1 on page 2 shows a C-Web configuration page for the SAE.

Figure 1: C-Web Page for SAE Configuration

The screenshot displays the Juniper C-Web interface for SAE Configuration. The top navigation bar includes 'Monitor', 'Configure' (highlighted), 'Diagnose', and 'Manage'. The user is logged in as 'admin'. The left sidebar shows a tree view with categories: Interfaces, Policies, Redirect Server..., Routing Options, Services, Shared, Acp, Admission Control, Auth Cache, Congestion Points, Network, Nic, SAE, Configuration..., Dhcp Classifier, hot-standby, blah, Subscriber Classifier, Slot, Snmp..., Subscribers, and System... The main content area is titled 'Shared SAE / Configuration' and contains a table with the following configuration options:

Option	Value	Description
Compress Session Data	<input type="checkbox"/>	Enable or disable compression of the serialized data when saving the state of the SAE. You can use serialized data compression to reduce the size of sessions objects that the SAE sends across the network for the session store feature. Enabling this option reduces the size of objects, but increases the CPU load on the SAE. We recommend that you do not enable this option because of the increase to the CPU load. Default: Disabled
Substs Cache Size	<input type="text"/>	Substitution Engine Cache Size Default value: 5000
Substs Num Engines	<input type="text"/>	Number of Substitution Engines Default value: 5

At the bottom of the configuration area are 'Apply' and 'Reset' buttons. The footer of the page includes the copyright notice 'Copyright © 2007, Juniper Networks, Inc. All Rights Reserved. Trademark Notice. Privacy.' and the Juniper logo.

Policy and Management

The SRC software works with Juniper Networks routers and PacketCable Multimedia Specification (PCMM) compliant CMTS platforms to provide differentiated QoS. The SRC software uses policies to define how the router or the CMTS device treats subscriber traffic. Policy management is responsible for defining policies and deploying the policies in an SRC network.

On JUNOS routing platforms, the SRC software supports class-of-service (CoS), firewall filters, policing, stateful firewall, stateless firewall, and Network Address Translation (NAT) services.

On JUNOSe routers, the SRC software supports policy routing, rate limiting, QoS classification and marking, packet forwarding, and packet filtering.

The Policies, Services, and Subscribers CLI and the Policies, Services, and Subscriptions subtasks in the C-Web interface allow easy specification and validation of policies. The policies are stored in the Juniper Networks database. It works closely with a policy engine, which performs dynamic policy decisions while activating services, leveraging on the directory content to decide which policies to use in a given context.

SDX SNMP Agent

The SDX SNMP agent monitors system performance and availability, system resources, and SRC processes that are running on the system. The agent obtains information from traps through SNMP. The SNMP agent is preconfigured to monitor SRC processes, such as those associated with infrastructure components (DirX for SRC software on Solaris platforms, and Interlink RADIUS). Additionally, it provides detailed monitoring and configuration of SRC server components such as the residential and enterprise portals, the SAE, NIC hosts, and the policy engine.

The master agent determines the SNMP version that supports integration with other network management systems. The SRC SNMP agent runs as a subagent to an installed master agent using the Agent Extensibility (AgentX) protocol. The SRC SNMP agent cannot act as a master agent.

- Related Topics**
- For information about the SRC monitoring and troubleshooting tools, see *Overview of Monitoring and Troubleshooting Tools*
 - For information about monitoring the SRC CLI and the C-Web interface, see the *SRC-PE Monitoring and Troubleshooting Guide*
 - SRC Component Overview

