



**SRC PE Software**

## **SRC XML API Operational Reference**

*Release 3.2.x*

**Juniper Networks, Inc.**

1194 North Mathilda Avenue  
Sunnyvale, CA 94089

USA

408-745-2000

**[www.juniper.net](http://www.juniper.net)**

Published: 2009-09-30

Juniper Networks, the Juniper Networks logo, JUNOS, NetScreen, ScreenOS, and Steel-Belted Radius are registered trademarks of Juniper Networks, Inc. in the United States and other countries. JUNOS is a trademark of Juniper Networks, Inc. All other trademarks, service marks, registered trademarks, or registered service marks are the property of their respective owners.

Juniper Networks assumes no responsibility for any inaccuracies in this document. Juniper Networks reserves the right to change, modify, transfer, or otherwise revise this publication without notice.

Products made or sold by Juniper Networks or components thereof might be covered by one or more of the following patents that are owned by or licensed to Juniper Networks: U.S. Patent Nos. 5,473,599, 5,905,725, 5,909,440, 6,192,051, 6,333,650, 6,359,479, 6,406,312, 6,429,706, 6,459,579, 6,493,347, 6,538,518, 6,538,899, 6,552,918, 6,567,902, 6,578,186, and 6,590,785.

*SRC PE Software SRC XML API Operational Reference*  
Release 5.2.x  
Copyright © 2009, Juniper Networks, Inc.  
All rights reserved. Printed in USA.

Writing: Linda Creed, Justine Kangas, Betty Lew  
Editing: Fran Mues  
Cover Design: Edmonds Design

Revision History  
30 September 2009—Revision 1

The information in this document is current as of the date listed in the revision history.

## YEAR 2000 NOTICE

Juniper Networks hardware and software products are Year 2000 compliant. The JUNOS software has no known time-related limitations through the year 2038. However, the NTP application is known to have some difficulty in the year 2036.

## SOFTWARE LICENSE

The terms and conditions for using this software are described in the software license contained in the acknowledgment to your purchase order or, to the extent applicable, to any reseller agreement or end-user purchase agreement executed between you and Juniper Networks. By using this software, you indicate that you understand and agree to be bound by those terms and conditions.

Generally speaking, the software license restricts the manner in which you are permitted to use the software and may contain prohibitions against certain uses. The software license may state conditions under which the license is automatically terminated. You should consult the license for further details.

For complete product documentation, please see the Juniper Networks Web site at [www.juniper.net/techpubs](http://www.juniper.net/techpubs).

## END USER LICENSE AGREEMENT

**READ THIS END USER LICENSE AGREEMENT ("AGREEMENT") BEFORE DOWNLOADING, INSTALLING, OR USING THE SOFTWARE.** BY DOWNLOADING, INSTALLING, OR USING THE SOFTWARE OR OTHERWISE EXPRESSING YOUR AGREEMENT TO THE TERMS CONTAINED HEREIN, YOU (AS CUSTOMER OR IF YOU ARE NOT THE CUSTOMER, AS A REPRESENTATIVE/AGENT AUTHORIZED TO BIND THE CUSTOMER) CONSENT TO BE BOUND BY THIS AGREEMENT. IF YOU DO NOT OR CANNOT AGREE TO THE TERMS CONTAINED HEREIN, THEN (A) DO NOT DOWNLOAD, INSTALL, OR USE THE SOFTWARE, AND (B) YOU MAY CONTACT JUNIPER NETWORKS REGARDING LICENSE TERMS.

**1. The Parties.** The parties to this Agreement are (i) Juniper Networks, Inc. (if the Customer's principal office is located in the Americas) or Juniper Networks (Cayman) Limited (if the Customer's principal office is located outside the Americas) (such applicable entity being referred to herein as "Juniper"), and (ii) the person or organization that originally purchased from Juniper or an authorized Juniper reseller the applicable license(s) for use of the Software ("Customer") (collectively, the "Parties").

**2. The Software.** In this Agreement, "Software" means the program modules and features of the Juniper or Juniper-supplied software, for which Customer has paid the applicable license or support fees to Juniper or an authorized Juniper reseller, or which was embedded by Juniper in equipment which Customer purchased from Juniper or an authorized Juniper reseller. "Software" also includes updates, upgrades and new releases of such software. "Embedded Software" means Software which Juniper has embedded in or loaded onto the Juniper equipment and any updates, upgrades, additions or replacements which are subsequently embedded in or loaded onto the equipment.

**3. License Grant.** Subject to payment of the applicable fees and the limitations and restrictions set forth herein, Juniper grants to Customer a non-exclusive and non-transferable license, without right to sublicense, to use the Software, in executable form only, subject to the following use restrictions:

- a. Customer shall use Embedded Software solely as embedded in, and for execution on, Juniper equipment originally purchased by Customer from Juniper or an authorized Juniper reseller.
- b. Customer shall use the Software on a single hardware chassis having a single processing unit, or as many chassis or processing units for which Customer has paid the applicable license fees; provided, however, with respect to the Steel-Belted Radius or Odyssey Access Client software only, Customer shall use such Software on a single computer containing a single physical random access memory space and containing any number of processors. Use of the Steel-Belted Radius or IMS AAA software on multiple computers or virtual machines (e.g., Solaris zones) requires multiple licenses, regardless of whether such computers or virtualizations are physically contained on a single chassis.
- c. Product purchase documents, paper or electronic user documentation, and/or the particular licenses purchased by Customer may specify limits to Customer's use of the Software. Such limits may restrict use to a maximum number of seats, registered endpoints, concurrent users, sessions, calls, connections, subscribers, clusters, nodes, realms, devices, links, ports or transactions, or require the purchase of separate licenses to use particular features, functionalities, services, applications, operations, or capabilities, or provide throughput, performance, configuration, bandwidth, interface, processing, temporal, or geographical limits. In addition, such limits may restrict the use of the Software to managing certain kinds of networks or require the Software to be used only in conjunction with other specific Software. Customer's use of the Software shall be subject to all such limitations and purchase of all applicable licenses.

- d. For any trial copy of the Software, Customer's right to use the Software expires 30 days after download, installation or use of the Software. Customer may operate the Software after the 30-day trial period only if Customer pays for a license to do so. Customer may not extend or create an additional trial period by re-installing the Software after the 30-day trial period.
- e. The Global Enterprise Edition of the Steel-Belted Radius software may be used by Customer only to manage access to Customer's enterprise network. Specifically, service provider customers are expressly prohibited from using the Global Enterprise Edition of the Steel-Belted Radius software to support any commercial network access services.

The foregoing license is not transferable or assignable by Customer. No license is granted herein to any user who did not originally purchase the applicable license(s) for the Software from Juniper or an authorized Juniper reseller.

**4. Use Prohibitions.** Notwithstanding the foregoing, the license provided herein does not permit the Customer to, and Customer agrees not to and shall not: (a) modify, unbundle, reverse engineer, or create derivative works based on the Software; (b) make unauthorized copies of the Software (except as necessary for backup purposes); (c) rent, sell, transfer, or grant any rights in and to any copy of the Software, in any form, to any third party; (d) remove any proprietary notices, labels, or marks on or in any copy of the Software or any product in which the Software is embedded; (e) distribute any copy of the Software to any third party, including as may be embedded in Juniper equipment sold in the secondhand market; (f) use any 'locked' or key-restricted feature, function, service, application, operation, or capability without first purchasing the applicable license(s) and obtaining a valid key from Juniper, even if such feature, function, service, application, operation, or capability is enabled without a key; (g) distribute any key for the Software provided by Juniper to any third party; (h) use the Software in any manner that extends or is broader than the uses purchased by Customer from Juniper or an authorized Juniper reseller; (i) use Embedded Software on non-Juniper equipment; (j) use Embedded Software (or make it available for use) on Juniper equipment that the Customer did not originally purchase from Juniper or an authorized Juniper reseller; (k) disclose the results of testing or benchmarking of the Software to any third party without the prior written consent of Juniper; or (l) use the Software in any manner other than as expressly provided herein.

**5. Audit.** Customer shall maintain accurate records as necessary to verify compliance with this Agreement. Upon request by Juniper, Customer shall furnish such records to Juniper and certify its compliance with this Agreement.

**6. Confidentiality.** The Parties agree that aspects of the Software and associated documentation are the confidential property of Juniper. As such, Customer shall exercise all reasonable commercial efforts to maintain the Software and associated documentation in confidence, which at a minimum includes restricting access to the Software to Customer employees and contractors having a need to use the Software for Customer's internal business purposes.

**7. Ownership.** Juniper and Juniper's licensors, respectively, retain ownership of all right, title, and interest (including copyright) in and to the Software, associated documentation, and all copies of the Software. Nothing in this Agreement constitutes a transfer or conveyance of any right, title, or interest in the Software or associated documentation, or a sale of the Software, associated documentation, or copies of the Software.

**8. Warranty, Limitation of Liability, Disclaimer of Warranty.** The warranty applicable to the Software shall be as set forth in the warranty statement that accompanies the Software (the "Warranty Statement"). Nothing in this Agreement shall give rise to any obligation to support the Software. Support services may be purchased separately. Any such support shall be governed by a separate, written support services agreement. TO THE MAXIMUM EXTENT PERMITTED BY LAW, JUNIPER SHALL NOT BE LIABLE FOR ANY LOST PROFITS, LOSS OF DATA, OR COSTS OR PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES, OR FOR ANY SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THIS AGREEMENT, THE SOFTWARE, OR ANY JUNIPER OR JUNIPER-SUPPLIED SOFTWARE. IN NO EVENT SHALL JUNIPER BE LIABLE FOR DAMAGES ARISING FROM UNAUTHORIZED OR IMPROPER USE OF ANY JUNIPER OR JUNIPER-SUPPLIED SOFTWARE. EXCEPT AS EXPRESSLY PROVIDED IN THE WARRANTY STATEMENT TO THE EXTENT PERMITTED BY LAW, JUNIPER DISCLAIMS ANY AND ALL WARRANTIES IN AND TO THE SOFTWARE (WHETHER EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE), INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT. IN NO EVENT DOES JUNIPER WARRANT THAT THE SOFTWARE, OR ANY EQUIPMENT OR NETWORK RUNNING THE SOFTWARE, WILL OPERATE WITHOUT ERROR OR INTERRUPTION, OR WILL BE FREE OF VULNERABILITY TO INTRUSION OR ATTACK. In no event shall Juniper's or its suppliers' or licensors' liability to Customer, whether in contract, tort (including negligence), breach of warranty, or otherwise, exceed the price paid by Customer for the Software that gave rise to the claim, or if the Software is embedded in another Juniper product, the price paid by Customer for such other product. Customer acknowledges and agrees that Juniper has set its prices and entered into this Agreement in reliance upon the disclaimers of warranty and the limitations of liability set forth herein, that the same reflect an allocation of risk between the Parties (including the risk that a contract remedy may fail of its essential purpose and cause consequential loss), and that the same form an essential basis of the bargain between the Parties.

**9. Termination.** Any breach of this Agreement or failure by Customer to pay any applicable fees due shall result in automatic termination of the license granted herein. Upon such termination, Customer shall destroy or return to Juniper all copies of the Software and related documentation in Customer's possession or control.

**10. Taxes.** All license fees payable under this agreement are exclusive of tax. Customer shall be responsible for paying Taxes arising from the purchase of the license, or importation or use of the Software. If applicable, valid exemption documentation for each taxing jurisdiction shall be provided to Juniper prior to invoicing, and Customer shall promptly notify Juniper if their exemption is revoked or modified. All payments made by Customer shall be net of any applicable withholding tax. Customer will provide reasonable assistance to Juniper in connection with such withholding taxes by promptly: providing Juniper with valid tax receipts and other required documentation showing Customer's payment of any withholding taxes; completing appropriate applications that would reduce the amount of withholding tax to be paid; and notifying and assisting Juniper in any audit or tax proceeding related to transactions hereunder. Customer shall comply with all applicable tax laws and regulations, and Customer will promptly pay or reimburse Juniper for all costs and damages related to any liability incurred by Juniper as a result of Customer's non-compliance or delay with its responsibilities herein. Customer's obligations under this Section shall survive termination or expiration of this Agreement.

**11. Export.** Customer agrees to comply with all applicable export laws and restrictions and regulations of any United States and any applicable foreign agency or authority, and not to export or re-export the Software or any direct product thereof in violation of any such restrictions, laws or regulations, or without all necessary approvals. Customer shall be liable for any such violations. The version of the Software supplied to Customer may contain encryption or other capabilities restricting Customer's ability to export the Software without an export license.

**12. Commercial Computer Software.** The Software is "commercial computer software" and is provided with restricted rights. Use, duplication, or disclosure by the United States government is subject to restrictions set forth in this Agreement and as provided in DFARS 227.7201 through 227.7202-4, FAR 12.212, FAR 27.405(b)(2), FAR 52.227-19, or FAR 52.227-14(ALT III) as applicable.

**13. Interface Information.** To the extent required by applicable law, and at Customer's written request, Juniper shall provide Customer with the interface information needed to achieve interoperability between the Software and another independently created program, on payment of applicable fee, if any. Customer shall observe strict obligations of confidentiality with respect to such information and shall use such information in compliance with any applicable terms and conditions upon which Juniper makes such information available.

**14. Third Party Software.** Any licensor of Juniper whose software is embedded in the Software and any supplier of Juniper whose products or technology are embedded in (or services are accessed by) the Software shall be a third party beneficiary with respect to this Agreement, and such licensor or vendor shall have the right to enforce this Agreement in its own name as if it were Juniper. In addition, certain third party software may be provided with the Software and is subject to the accompanying license(s), if any, of its respective owner(s). To the extent portions of the Software are distributed under and subject to open source licenses obligating Juniper to make the source code for such portions publicly available (such as the GNU General Public License

("GPL") or the GNU Library General Public License ("LGPL")), Juniper will make such source code portions (including Juniper modifications, as appropriate) available upon request for a period of up to three years from the date of distribution. Such request can be made in writing to Juniper Networks, Inc., 1194 N. Mathilda Ave., Sunnyvale, CA 94089, ATTN: General Counsel. You may obtain a copy of the GPL at <http://www.gnu.org/licenses/gpl.html>, and a copy of the LGPL at <http://www.gnu.org/licenses/lgpl.html>.

**15. Miscellaneous.** This Agreement shall be governed by the laws of the State of California without reference to its conflicts of laws principles. The provisions of the U.N. Convention for the International Sale of Goods shall not apply to this Agreement. For any disputes arising under this Agreement, the Parties hereby consent to the personal and exclusive jurisdiction of, and venue in, the state and federal courts within Santa Clara County, California. This Agreement constitutes the entire and sole agreement between Juniper and the Customer with respect to the Software, and supersedes all prior and contemporaneous agreements relating to the Software, whether oral or written (including any inconsistent terms contained in a purchase order), except that the terms of a separate written agreement executed by an authorized Juniper representative and Customer shall govern to the extent such terms are inconsistent or conflict with terms contained herein. No modification to this Agreement nor any waiver of any rights hereunder shall be effective unless expressly assented to in writing by the party to be charged. If any portion of this Agreement is held invalid, the Parties agree that such invalidity shall not affect the validity of the remainder of this Agreement. This Agreement and associated documentation has been written in the English language, and the Parties agree that the English version will govern. (For Canada: Les parties aux présentes confirment leur volonté que cette convention de même que tous les documents y compris tout avis qui s'y rattache, soient rédigés en langue anglaise. (Translation: The parties confirm that this Agreement and all related documentation is and will be in the English language)).

# About the Documentation

- SRC Documentation and Release Notes on page v
- Audience on page v
- Documentation Conventions on page v
- Obtaining Documentation on page vii
- Documentation Feedback on page vii
- Requesting Technical Support on page viii

## SRC Documentation and Release Notes

---

For a list of related SRC documentation, see <http://www.juniper.net/techpubs/>.

If the information in the latest *SRC Release Notes* differs from the information in the SRC guides, follow the *SRC Release Notes*.

## Audience

---





This documentation is intended for experienced system and network specialists working with routers running JUNOS® and JUNOSe Software in an Internet access environment. We assume that readers know how to use the routers, directories, and RADIUS servers that they will deploy in their SRC networks. If you are using the SRC software in a cable network environment, we assume that you are familiar with the PacketCable Multimedia Specification (PCMM) as defined by Cable Television Laboratories, Inc. (CableLabs) and with the Data-over-Cable Service Interface Specifications (DOCSIS) 1.1 protocol. We also assume that you are familiar with operating a multiple service operator (MSO) multimedia-managed IP network.

## Documentation Conventions

---

Table 1 on page vi defines the notice icons used in this guide. Table 2 on page vi defines text conventions used throughout this documentation.

**Table 1: Notice Icons**

Icon	Meaning	Description
	Informational note	Indicates important features or instructions.
	Caution	Indicates a situation that might result in loss of data or hardware damage.
	Warning	Alerts you to the risk of personal injury or death.
	Laser warning	Alerts you to the risk of personal injury from a laser.

**Table 2: Text Conventions**

Convention	Description	Examples
<b>Bold text like this</b>	<ul style="list-style-type: none"> <li>■ Represents keywords, scripts, and tools in text.</li> <li>■ Represents a GUI element that the user selects, clicks, checks, or clears.</li> </ul>	<ul style="list-style-type: none"> <li>■ Specify the keyword <b>exp-msg</b>.</li> <li>■ Run the <b>install.sh</b> script.</li> <li>■ Use the <b>pkgadd</b> tool.</li> <li>■ To cancel the configuration, click <b>Cancel</b>.</li> </ul>
<b>Bold text like this</b>	Represents text that the user must type.	<code>user@host# <b>set cache-entry-age</b> cache-entry-age</code>
<b>Fixed-width text like this</b>	Represents information as displayed on your terminal's screen, such as CLI commands in output displays.	<pre> nic-locators {   login {     resolution {       resolver-name /realms/       login/A1;       key-type LoginName;       value-type SaeId;     }   } } </pre>
Regular sans serif typeface	<ul style="list-style-type: none"> <li>■ Represents configuration statements.</li> <li>■ Indicates SRC CLI commands and options in text.</li> <li>■ Represents examples in procedures.</li> <li>■ Represents URLs.</li> </ul>	<ul style="list-style-type: none"> <li>■ <code>system ldap server{ stand-alone;</code></li> <li>■ Use the <code>request sae modify device failover</code> command with the <code>force</code> option</li> <li>■ <code>user@host# . . .</code></li> <li>■ <code>http://www.juniper.net/techpubs/software/management/src/api-index.html</code></li> </ul>
<i>Italic sans serif typeface</i>	Represents variables in SRC CLI commands.	<code>user@host# <b>set local-address</b> local-address</code>
Angle brackets	In text descriptions, indicate optional keywords or variables.	Another runtime variable is <code>&lt;gfwif&gt;</code> .
Key name	Indicates the name of a key on the keyboard.	Press Enter.

**Table 2: Text Conventions** (*continued*)

Key names linked with a plus sign (+)	Indicates that you must press two or more keys simultaneously.	Press Ctrl + b.
<i>Italic typeface</i>	<ul style="list-style-type: none"> <li>■ Emphasizes words.</li> <li>■ Identifies book names.</li> <li>■ Identifies distinguished names.</li> <li>■ Identifies files, directories, and paths in text but not in command examples.</li> </ul>	<ul style="list-style-type: none"> <li>■ There are two levels of access: <i>user</i> and <i>privileged</i>.</li> <li>■ <i>SRC PE Getting Started Guide</i></li> <li>■ <i>o = Users, o = UMC</i></li> <li>■ The <i>/etc/default.properties</i> file.</li> </ul>
Backslash	At the end of a line, indicates that the text wraps to the next line.	Plugin.radiusAcct-1.class = \net.juniper.srmt.sae.plugin\RadiusTrackingPluginEvent
Words separated by the   symbol	Represent a choice to select one keyword or variable to the left or right of this symbol. (The keyword or variable may be either optional or required.)	diagnostic   line

## Obtaining Documentation

To obtain the most current version of all Juniper Networks technical documents, see the products documentation page on the Juniper Networks Web site at <http://www.juniper.net/>.

To download complete sets of technical documentation to create your own documentation CD-ROMs or DVD-ROMs, see the CD-ROM and DVD-ROM Documentation page at

<http://www.juniper.net/techpubs/resources/cdrom.html>

Copies of the Management Information Bases (MIBs) are available at <http://www.juniper.net/>.

## Documentation Feedback

We encourage you to provide feedback, comments, and suggestions so that we can improve the documentation. You can send your comments to [techpubs-comments@juniper.net](mailto:techpubs-comments@juniper.net), or fill out the documentation feedback form at <https://www.juniper.net/cgi-bin/docbugreport/>. If you are using e-mail, be sure to include the following information with your comments:

- Document or topic name
- URL or page number
- Software release version (if applicable)

## Requesting Technical Support

---

Technical product support is available through the Juniper Networks Technical Assistance Center (JTAC). If you are a customer with an active J-Care or JNASC support contract, or are covered under warranty, and need post-sales technical support, you can access our tools and resources online or open a case with JTAC.

- JTAC policies—For a complete understanding of our JTAC procedures and policies, review the JTAC User Guide located at <http://www.juniper.net/customers/support/downloads/710059.pdf> .
- Product warranties—For product warranty information, visit <http://www.juniper.net/support/warranty/> .
- JTAC hours of operation—The JTAC centers have resources available 24 hours a day, 7 days a week, 365 days a year.

## Self-Help Online Tools and Resources

For quick and easy problem resolution, Juniper Networks has designed an online self-service portal called the Customer Support Center (CSC) that provides you with the following features:

- Find CSC offerings: <http://www.juniper.net/customers/support/>
- Search for known bugs: <http://www2.juniper.net/kb/>
- Find product documentation: <http://www.juniper.net/techpubs/>
- Find solutions and answer questions using our Knowledge Base: <http://kb.juniper.net/>
- Download the latest versions of software and review release notes: <http://www.juniper.net/customers/csc/software/>
- Search technical bulletins for relevant hardware and software notifications: <https://www.juniper.net/alerts/>
- Join and participate in the Juniper Networks Community Forum: <http://www.juniper.net/company/communities/>
- Open a case online in the CSC Case Management tool: <http://www.juniper.net/cm/>

To verify service entitlement by product serial number, use our Serial Number Entitlement (SNE) Tool: <https://tools.juniper.net/SerialNumberEntitlementSearch/>

## Opening a Case with JTAC

You can open a case with JTAC on the Web or by telephone.

- Use the Case Management tool in the CSC at <http://www.juniper.net/cm/> .
- Call 1-888-314-JTAC (1-888-314-5822 toll-free in the USA, Canada, and Mexico).



For international or direct-dial options in countries without toll-free numbers, see <http://www.juniper.net/support/requesting support.html> .



# Summary of SRC XML API Operational Tag Elements

This document lists the SRC Extensible Markup Language (XML) API tag elements that are equivalent to operational commands in the SRC command-line interface (SRC CLI). A client of the NETCONF server uses the tag elements to request operational information. For information about the notation used in this document, see Table 2 on page vi. For information about the tag elements that client applications use to request, change, and commit configuration information, see the *SRC PE NETCONF API Guide*.

Tag elements are listed in alphabetical order for the following components:

- CLI and System
- Juniper Networks Database
- SAE
- Network Information Collector (NIC)
- Juniper Policy Server (JPS)
- Redirect Server
- SRC Admission Control Plug-In (SRC ACP)
- External Subscriber Monitor
- Dynamic Service Activator
- Diameter Application
- License Management



# CLI and System Operational Tag Elements

[Table 5](#) lists the SRC CLI operational mode commands that have corresponding SRC XML request tag elements in the current version of the SRC software, and maps each command to its request tag element. CLI commands are listed in alphabetical order.

For a list of mappings organized alphabetically by request tag element name, see [Table 6](#). For more information about CLI commands, see the *SRC PE CLI Command Reference*.

For a list of response tag elements, see [Table 7](#).

Table 5: Mapping of CLI Commands to Operational Tag Elements

CLI Command	Request Tag Element
clear security certificate	clear-security-certificate
clear security certificate-request	clear-security-certificate-request
clear security ssh	clear-security-ssh
disable	disable
enable	enable
file compare	file-compare
file list	file-list
file show	file-show
request disk disable	request-disk-disable
request disk enable	request-disk-enable
request disk identify	request-disk-identify
request disk initialize	request-disk-initialize
request network discovery	request-network-discovery
request security enroll	request-security-enroll
request security generate-certificate-request	request-security-generate-certificate-request
request security get-ca-certificate	request-security-get-ca-certificate
request security import-certificate	request-security-import-certificate
request support information	request-support-information
request system halt	request-halt

request system install	request-system-install
request system reboot	request-reboot
request system restore	request-restore
request system snapshot	request-snapshot
request system uninstall	request-system-uninstall
request system upgrade	request-system-upgrade
restart	restart
set date	set-date
set date ntp	set-date-ntp
set cli level	set-level
show cli	get-cli
show cli authorization	get-cli-authorization
show cli level	get-level
show component	get-component-all
show date	get-date
show disk status	get-disk-status
show interfaces	get-interfaces
show iptables	get-iptables
show ntp associations	get-ntp-associations
show ntp statistics	get-ntp-statistics
show ntp status	get-ntp-status
show route	get-route
show security certificate	get-security-certificate
show system boot-messages	get-system-boot-messages
show system information	get-system-info
show system users	get-system-users

[Table 6](#) maps SRC XML operational request tag elements to SRC CLI commands. Tag elements are listed in alphabetical order.

Table 6: Mapping of Operational Tag Elements to CLI Commands

<b>Request Tag Element</b>	<b>CLI Command</b>
<a href="#">clear-security-certificate</a>	clear security certificate
<a href="#">clear-security-certificate-request</a>	clear security certificate-request
<a href="#">clear-security-ssh</a>	clear security ssh
<a href="#">disable</a>	disable
<a href="#">enable</a>	enable
<a href="#">file-compare</a>	file compare
<a href="#">file-list</a>	file list
<a href="#">file-show</a>	file show
<a href="#">get-cli</a>	show cli
<a href="#">get-cli-authorization</a>	show cli authorization
<a href="#">get-completions</a>	
<a href="#">get-component-all</a>	show component
<a href="#">get-date</a>	show date
<a href="#">get-disk-status</a>	show disk status
<a href="#">get-interfaces</a>	show interfaces
<a href="#">get-iptables</a>	show iptables
<a href="#">get-level</a>	show cli level
<a href="#">get-lifecycles</a>	
<a href="#">get-node-information</a>	
<a href="#">get-ntp-associations</a>	show ntp associations
<a href="#">get-ntp-statistics</a>	show ntp statistics
<a href="#">get-ntp-status</a>	show ntp status
<a href="#">get-route</a>	show route
<a href="#">get-security-certificate</a>	show security certificate

<a href="#">get-system-boot-messages</a>	show system boot-messages
<a href="#">get-system-info</a>	show system information
<a href="#">get-system-users</a>	show system users
<a href="#">request-disk-disable</a>	request disk disable
<a href="#">request-disk-enable</a>	request disk enable
<a href="#">request-disk-identify</a>	request disk identify
<a href="#">request-disk-initialize</a>	request disk initialize
<a href="#">request-halt</a>	request system halt
<a href="#">request-license-import</a>	request license import
<a href="#">request-network-discovery</a>	request network discovery
<a href="#">request-reboot</a>	request system reboot
<a href="#">request-restore</a>	request system restore
<a href="#">request-security-enroll</a>	request security enroll
<a href="#">request-security-generate-certificate-request</a>	request security generate-certificate-request
<a href="#">request-security-get-ca-certificate</a>	request security get-ca-certificate
<a href="#">request-security-import-certificate</a>	request security import-certificate
<a href="#">request-snapshot</a>	request system snapshot
<a href="#">request-support-information</a>	request support information
<a href="#">request-system-install</a>	request system install
<a href="#">request-system-uninstall</a>	request system uninstall
<a href="#">request-system-upgrade</a>	request system upgrade
<a href="#">restart</a>	restart
<a href="#">set-date</a>	set date
<a href="#">set-date-ntp</a>	set date ntp
<a href="#">set-level</a>	set cli level

[Table 7](#) lists the SRC XML operational response tag elements. Tag elements are listed in alphabetical order.



Table 7: Operational Response Tag Elements

<b>Response Tag Element</b>
<a href="#"><u>sdx-component</u></a>
<a href="#"><u>sdx-component-list</u></a>

## <clear-security-certificate>

### Usage

```
<rpc>  
  <clear-security-certificate>  
    <identifier> identifier </identifier>  
  </clear-security-certificate>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Delete a digital certificate from the system.

### Contents

<identifier>— (Optional) Name of a local digital certificate.

**Value**— *Certificate name*

### Required Privilege Level

security

## <clear-security-certificate-request>

### Usage

```
<rpc>
  <clear-security-certificate-request>
    <file-name> file-name </file-name>
  </clear-security-certificate-request>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Delete a certificate request on the system.

### Contents

**<file-name>**— (Optional) Name of certificate signing request file. This file is stored in the /tmp directory and has the file-extension .csr.

**Value**— *filename*

**Default**— certreq

### Required Privilege Level

security

## <clear-security-ssh>

### Usage

```
<rpc>  
  <clear-security-ssh>  
    <known-host> known-host </known-host>  
  </clear-security-ssh>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Clear (delete) cached SSH data.

### Contents

<known-host>— Name of known host to remove

**Value**— Hostname

### Required Privilege Level

security

## <disable>

### Usage

```
<rpc>  
  <disable>  
    <component> component </component>  
  </disable>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Stop an SRC component that is running on the system.

### Contents

<component>— Name of SRC component to stop.

To see a list of installed components, use the `show component` command.

**Value**— Component name

### Required Privilege Level

reset

## <enable>

### Usage

```
<rpc>
  <enable>
    <component> component </component>
  </enable>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Start a specified SRC component that is installed on the system.

### Contents

<component>— Name of SRC component to start.

**Value**— Component name

### Required Privilege Level

reset

## <file-compare>

### Usage

```
<rpc>
  <file-compare>
    <style> style-choice </style>
    <ignore-white-space/>
    <from-file> from-file </from-file>
    <to-file> to-file </to-file>
  </file-compare>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Compare files on a C-series Controller.

### Contents

<style>— (Optional)

#### Value

- context— Output shows the context for differences between the files. It shows which line was changed in one line listing, then the change for the line in a second line listing.
- unified— Output shows the differences between files in a unified format. A single listing of line numbers shows the line on which a change occurred, then the changed text.

<ignore-white-space>— (Optional) Differences in amount of white space ignored.

<from-file>—File to compare

#### Value— Filename

<to-file>—File to compare

**Value**— Filename

**Required Privilege Level**

maintenance



## <file-list>

### Usage

```
<rpc>
  <file-list>
    <recursive/>
    <detail/>
    <path> path </path>
  </file-list>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

List files in a directory on a C-series Controller.

### Contents

<recursive>— (Optional) Create recursive listing of files.

<detail>— (Optional) Provide information about the files in a listing of files, such as modification date and file size.

<path>— (Optional) Path to the directory in which you list files.

**Value**— Pathname

### Required Privilege Level

maintenance

## <file-show>

### Usage

```
<rpc>
  <file-show>
    <encoding> encoding-choice </encoding>
    <filename> filename </filename>
  </file-show>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display content of a file.

### Contents

<encoding>— (Optional) Type of file encoding.

#### Value

- base64— File has base64 encoding.

<filename>— Name of file for which to display content.

#### Value— Filename

### Required Privilege Level

maintenance

## **<get-cli>**

### **Usage**

```
<rpc>  
  <get-cli>  
  </get-cli>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Display properties that have been set to control the CLI environment.

### **Required Privilege Level**

No specific privilege required.

## **<get-cli-authorization>**

### **Usage**

```
<rpc>  
  <get-cli-authorization>  
  </get-cli-authorization>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Identify the user logged in to the CLI session, and display the user's privilege level, the user's permissions to run specified operational and configuration commands, and the user's authorization to run commands.

### **Required Privilege Level**

No specific privilege required.

## <get-completions>

### Usage

```
<rpc>
  <get-completions>
    <path> path </path>
    <prefix> prefix </prefix>
  </get-completions>
</rpc>
```

### Release Information

Command introduced in SRC Release 2.0.0

### Description

Returns completions for arguments of an operational command or attributes and children of a configuration object.

### Contents

**<path>**— Start with configuration to access a configuration node or operation to access a command node.

**Value**—Text

**<prefix>**— (Optional) When a prefix is defined, only the completion options that start with the specified prefix should be retrieved.

**Value**—Text

### Required Privilege Level

No specific privilege required.

## **<get-component-all>**

### **Usage**

```
<rpc>  
  <get-component-all>  
  </get-component-all>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Display information and status for SRC components installed.

### **Required Privilege Level**

maintenance

### **Output Tag**

[sdx-component-list](#)

## **<get-date>**

### **Usage**

```
<rpc>  
  <get-date>  
  </get-date>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Display the time and date set on the system.

### **Required Privilege Level**

No specific privilege required.

## **<get-disk-status>**

### **Usage**

```
<rpc>  
  <get-disk-status>  
    <brief/>  
  </get-disk-status>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Display status information.

### **Contents**

`<brief>`— (Optional) Display summary information.

### **Required Privilege Level**

view



## <get-interfaces>

### Usage

```
<rpc>
  <get-interfaces>
    <interface-name> interface-name </interface-name>
  </get-interfaces>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display information about interfaces configured on a C-series Controller, including but not limited to interface address, information about packets sent, and information about packets received.

### Contents

<interface-name>— (Optional) Name of an interface

**Value**— Interface name; for example eth0. If you do not specify an interface name, the command displays information for all interfaces.

**Default**— No value

### Required Privilege Level

network

## <get-iptables>

### Usage

```
<rpc>
  <get-iptables>
    <table> table-choice </table>
    <reset-counters/>
  </get-iptables>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display information about the iptables Linux tool.

### Contents

`<table>`— (Optional) Type of information to display.

#### Value

- `nat`— Display information for the nat table for the iptables tool. The nat table provides rules for rewriting packet addresses.
- `filter`— Display information for the filter table for the iptables tool. The filter table provides rules for defining packet filters.
- `mangle`— Display information for the mangle table for the iptables tool. The mangle table provides rules for adjusting packet options, such as quality of service.

`<reset-counters>`— (Optional) Reset counters of the items in output.

### Required Privilege Level

view

## **<get-level>**

### **Usage**

```
<rpc>  
  <get-level>  
  </get-level>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Display the current access level.

### **Required Privilege Level**

No specific privilege required.

## <get-lifecycles>

### Usage

```
<rpc>  
  <get-lifecycles>  
    <paths> paths </paths>  
  </get-lifecycles>  
</rpc>
```

### Release Information

Command introduced in SRC Release 2.0.0

### Description

Returns error messages from beforeCreate and beforeDelete lifecycle methods for the specified configuration nodes and all of their attributes.

### Contents

<paths>— Paths to the nodes whose lifecycle methods should be invoked.

**Value**—Text

### Required Privilege Level

No specific privilege required.

## <get-node-information>

### Usage

```
<rpc>
  <get-node-information>
    <path> path </path>
    <object-info> object-info </object-info>
    <embedded-object-info> embedded-object-info </embedded-object-info>
    <dynamic-info> dynamic-info </dynamic-info>
    <children-level> children-level </children-level>
  </get-node-information>
</rpc>
```

### Release Information

Command introduced in SRC Release 2.0.0

### Description

Returns meta information about a specific node.

### Contents

**<path>**— Start with configuration to access a configuration node or operation to access a command node.

**Value**—Text

**<object-info>**— (Optional) Provide a comma separated list of strings. Provide no value or use '\*' for all and '[]' for none.

**Value**—Text

**Default**—\*

**<embedded-object-info>**— (Optional) Provide a comma separated list of strings. Provide no value or use '\*' for all and '[]' for none.

**Value**—Text

**Default**—\*

**<dynamic-info>**— (Optional) Dynamic attributes are accessed by calling a getter method on the meta object representing the node. For example, if 'compName' is requested, the method

getCompName() will be called on the meta object. If no method exists or the method doesn't return a value, the information will not be included.

**Value**—Text

<children-level>— (Optional) Use 0 for no children; a large number for all descendants

**Value**—Integer in the range -2147483648-2147483647

**Default**—0

### **Required Privilege Level**

No specific privilege required.

## **<get-ntp-associations>**

### **Usage**

```
<rpc>  
  <get-ntp-associations>  
    <no-resolve/>  
  </get-ntp-associations>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Display NTP peers and their state.

### **Contents**

`<no-resolve>`— (Optional) Suppress symbolic addressing.

### **Required Privilege Level**

view

## **<get-ntp-statistics>**

### **Usage**

```
<rpc>  
  <get-ntp-statistics>  
    <no-resolve/>  
  </get-ntp-statistics>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Display information about NTP.

### **Contents**

`<no-resolve>`— (Optional) Suppress symbolic addressing.

### **Required Privilege Level**

view



## <get-ntp-status>

### Usage

```
<rpc>  
  <get-ntp-status>  
    <no-resolve/>  
  </get-ntp-status>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display the values of internal variables returned by NTP peers.

### Contents

`<no-resolve>`— (Optional) Suppress symbolic addressing.

### Required Privilege Level

view

## <get-route>

### Usage

```
<rpc>  
  <get-route>  
    <no-resolve/>  
    <detail/>  
  </get-route>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display information from the routing table.

### Contents

<no-resolve>— (Optional) Do not display symbolic addresses in command output.

<detail>— (Optional) Display detailed output.

### Required Privilege Level

network

## <get-security-certificate>

### Usage

```
<rpc>  
  <get-security-certificate>  
    <trusted/>  
  </get-security-certificate>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display information about the certificates stored on the local system.

### Contents

<trusted>— (Optional) Display information about certificate authority (CA) certificates.

### Required Privilege Level

security

## **<get-system-boot-messages>**

### **Usage**

```
<rpc>  
  <get-system-boot-messages>  
  </get-system-boot-messages>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Display system messages generated during system startup.

### **Required Privilege Level**

view

## <get-system-info>

### Usage

```
<rpc>  
  <get-system-info>  
  </get-system-info>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display information about the system. The command output includes the system hostname, information about the system hardware, the version of the SRC software installed on the system.

### Required Privilege Level

No specific privilege required.

### Output Tag

[system-info](#)

## **<get-system-users>**

### **Usage**

```
<rpc>  
  <get-system-users>  
    <brief/>  
    <no-from/>  
  </get-system-users>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Show users who are currently logged in

### **Contents**

`<brief>`— (Optional) Use the short format

`<no-from>`— (Optional) Do not show the FROM field

### **Required Privilege Level**

view

## <request-disk-disable>

### Usage

```
<rpc>
  <request-disk-disable>
    <device> device </device>
  </request-disk-disable>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Disable a specified disk in the disk mount.

### Contents

<device>— (Optional) Number assigned to the disk to be disabled, 0 or 1.

**Value**—Integer in the range 0–1

**Default**—0

### Required Privilege Level

maintenance

## <request-disk-enable>

### Usage

```
<rpc>  
  <request-disk-enable>  
    <device> device </device>  
  </request-disk-enable>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Enable a a specified disk in the disk mount.

### Contents

<device>— (Optional) Number assigned to the disk to be enabled, 0 or 1.

**Value**—Integer in the range 0–1

**Default**—0

### Required Privilege Level

maintenance



## <request-disk-identify>

### Usage

```
<rpc>
  <request-disk-identify>
    <device> device </device>
  </request-disk-identify>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Turn on LED blinking for a specified disk on a C-series Controller to identify which disk is disk 0 and which is disk 1.

### Contents

<device>— (Optional) Number assigned to a disk, 0 or 1.

**Value**—Integer in the range 0–1

**Default**—0

### Required Privilege Level

maintenance

## <request-disk-initialize>

### Usage

```
<rpc>  
  <request-disk-initialize>  
    <device> device </device>  
  </request-disk-initialize>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Initialize a specified disk in the disk mount.

### Contents

<device>— (Optional) Number assigned to the disk to be initialized, 0 or 1.

**Value**—Integer in the range 0–1

**Default**—0

### Required Privilege Level

maintenance

## **<request-halt>**

### **Usage**

```
<rpc>  
  <request-halt>  
  </request-halt>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Stop system processes and halt the operating system.

### **Required Privilege Level**

maintenance

## <request-license-import>

### Usage

```
<rpc>
  <request-license-import>
    <file-name> file-name </file-name>
    <server-address> server-address </server-address>
    <name-space> name-space </name-space>
    <authentication-dn> authentication-dn </authentication-dn>
    <password> password </password>
    <master-license/>
  </request-license-import>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Import an SRC license into the directory. The license can be either a pilot license or a server license. Use the `master-license` option to install a server, or master, license.

### Contents

`<file-name>`— Name of the file that contains the SRC license information.

**Value**— Filename  
**Default**— No value

`<server-address>`— (Optional) IP address for the primary directory server. For C-series platforms, this is the platform that has the Juniper Networks database configured to have a primary role.

**Value**— IP address  
**Default**— No value

`<name-space>`— (Optional) Base distinguished name (DN) for the directory. In most cases you can use the default `< base>` .

**Value**— Base DN  
**Default**— `< base>`

<authentication-dn>— (Optional) DN used for directory authentication.

**Value**— DN

**Default**— No value

<password>— (Optional) Password used for directory authentication.

**Value**— Password

**Default**— No value

<master-license>— (Optional) License is a server, or master, license.

### Required Privilege Level

maintenance

## <request-network-discovery>

### Usage

```
<rpc>
  <request-network-discovery>
    <network> network </network>
    <community> community </community>
  </request-network-discovery>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Discover all manageable network elements in an IP subnet. The devices must be online and respond to SNMP queries.

### Contents

<network>— Address of the network to discover

**Value**— Address in dotted decimal notation

- Individual host—#. #. #. #
- Complete network—#. #. #. #/###

<community>— (Optional) Name of SNMP community

**Value**— SNMP community name

**Default**—public

### Required Privilege Level

network

## **<request-reboot>**

### **Usage**

```
<rpc>  
  <request-reboot>  
  </request-reboot>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Shut down then restart the C-series Controller.

### **Required Privilege Level**

maintenance

## **<request-restore>**

### **Usage**

```
<rpc>  
  <request-restore>  
  </request-restore>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Restore the root file system from a previously taken snapshot.

**Note:** The system will reboot twice while the snapshot is being restored.

### **Required Privilege Level**

maintenance



## <request-security-enroll>

### Usage

```
<rpc>
  <request-security-enroll>
    <subject> subject </subject>
    <password> password </password>
    <url> url </url>
    <ca-identifier> ca-identifier </ca-identifier>
    <identifier> identifier </identifier>
  </request-security-enroll>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Request that the certificate authority (CA) automatically sign the certificate request for the specified subject and challenge password and enroll the certificate through the Simple Certificate Enrollment Protocol (SCEP). Use the `request security get-ca-certificate` command to generate the certificate request.

### Contents

**<subject>**— (Optional) Name (as defined in the X.509 standard for public key infrastructure) used in the certificate name field. If you do not specify a value for `subject`, the SRC software uses the unqualified hostname of the system in the format `cn= hostname`. You can specify one subject for a certificate.

**Value**— Distinguished name in the format: `cn= name`.

#### Example

```
cn=sdx1,ou=pop,o=Juniper,l=kanata, st=ontario,c=Canada
```

**<password>**— (Optional) Password on the CA for the specified subject. If you do not enter a password, the system prompts you for one.

**Value**— *password*

**<url>**— URL of certificate authority (which is the SCEP server).

**Value**— *URL*

`<ca-identifier>`— Identifier that designates the certificate authority. Use the value provided by the CA.

**Value**— *CA identifier*

`<identifier>`— Local name of a digital certificate.

**Value**— *Certificate name*

### Required Privilege Level

security

## <request-security-generate-certificate-request>

### Usage

```
<rpc>
  <request-security-generate-certificate-request>
    <subject> subject </subject>
    <password> password </password>
    <file-name> file-name </file-name>
    <encoding> encoding-choice </encoding>
  </request-security-generate-certificate-request>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Create a self-signed certificate and a certificate signing request. You send the the certificate signing request file to a certificate authority (CA) for signing. Use the `request security import-certificate` command to import the issued certificate.

### Contents

**<subject>**— (Optional) Name (as defined in the X.509 standard for public key infrastructure) used in the certificate name field. If you do not specify a value for `subject`, the SRC software uses the unqualified hostname of the system in the format `cn= hostname`. You can specify one subject for a certificate.

**Value**— Distinguished name in the format: `cn= name`.

#### Example

```
cn=sdx1,ou=pop,o=Juniper,l=kanata, st=ontario,c=Canada
```

**<password>**— (Optional) Password on the CA for the specified subject. If you do not enter a password, the system prompts you for one.

**Value**— `password`

**<file-name>**— (Optional) Name of certificate signing request file. This file is stored in the `/tmp` directory with the file-extension `.csr`.

**Value**— *filename*

**Default**—certreq

<encoding>— (Optional) Type of encoding used by the certificate signing request.

**Value**

- binary— Binary encoding
- pem— Privacy enhanced mail encoding

**Default**—pem

**Required Privilege Level**

security

## <request-security-get-ca-certificate>

### Usage

```
<rpc>
  <request-security-get-ca-certificate>
    <url> url </url>
    <ca-identifier> ca-identifier </ca-identifier>
  </request-security-get-ca-certificate>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Request a certificate authority (CA) certificate through the Simple Certificate Enrollment Protocol (SCEP). After you request the certificate, use the `request security enroll` command to request digital certificates from this CA.

### Contents

`<url>`— URL of certificate authority (which is the SCEP server).

**Value**— *URL*

`<ca-identifier>`— Identifier that designates the certificate authority. The identifier is not the name of the certificate authority.

**Value**— *Identifier*

### Required Privilege Level

security

## <request-security-import-certificate>

### Usage

```
<rpc>
  <request-security-import-certificate>
    <file-name> file-name </file-name>
    <identifier> identifier </identifier>
  </request-security-import-certificate>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Import a digital certificate from a file. Run the `request security generate-certificate-request` command first to create a certificate signing request that you manually submit to the CA for signing.

### Contents

`<file-name>`— Name of the certificate file.

**Value**— *filename*

`<identifier>`— Name of a local digital certificate.

**Value**— *Certificate name*

### Required Privilege Level

security

## **<request-snapshot>**

### **Usage**

```
<rpc>  
  <request-snapshot>  
  </request-snapshot>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Create a backup copy of the root file system.

After you issue the command, you cannot return to the previous version of the software because the running and backup copies of the software are identical.

### **Required Privilege Level**

maintenance

## <request-support-information>

### Usage

```
<rpc>
  <request-support-information>
    <days> days </days>
    <components> components-choice </components>
  </request-support-information>
</rpc>
```

### Release Information

Command introduced in SRC Release 3.1.0

### Description

Collects information about components.

### Contents

**<days>**— (Optional) Range of days for which information is collected. Files modified before this range are ignored.

**Value**—Integer in the range 1–36500

**Default**—7

**<components>**— (Optional) Components from which diagnostic information will be collected.

#### Value

- **acp**— Collects information from SRC ACP
- **activity**— Collects information from Activity Monitor
- **agent**— Collects information from the SNMP agent
- **cli**— Collects information from the CLI
- **appsvr**— Collects information from the application server
- **diameter**— Collects information from Diameter application
- **dsa**— Collects information from Dynamic Service Activator
- **extsubmon**— Collects information from External Subscriber Monitor
- **ims**— Collects information from IP multimedia subsystem (IMS)
- **jdb**— Collects information from Juniper Networks database
- **jps**— Collects information from Juniper Policy Server (JPS)
- **licSvr**— Collects information from the license server



- `nic`— Collects information from the network information collector (NIC)
- `redir`— Collects information from the Redirect Server
- `sae`— Collects information from the SAE
- `webadm`— Collects information from the C-Web interface

**Required Privilege Level**

view

## <request-system-install>

### Usage

```
<rpc>
  <request-system-install>
    <url> url </url>
    <package> package </package>
  </request-system-install>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Install a specified SRC component.

### Contents

**<url>**— URL of an SRC installable image. The URL can be one of the following:

- **usb:**—Local USB disk
- **ftp://host/path**—Path on an FTP site or on the local system

**Value**— URL

**<package>**— Name of the SRC package to install.

**Value**— Package name

### Required Privilege Level

maintenance

## <request-system-uninstall>

### Usage

```
<rpc>
  <request-system-uninstall>
    <package> package </package>
  </request-system-uninstall>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Remove an SRC package that is installed on the system.

### Contents

<package>— Name of the SRC package to remove.

**Value**— Package name

### Required Privilege Level

maintenance

## <request-system-upgrade>

### Usage

```
<rpc>  
  <request-system-upgrade>  
    <url> url </url>  
    <no-reboot/>  
  </request-system-upgrade>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Upgrade the SRC software.

### Contents

<url>— URL of an SRC installable image. The URL can be one of the following:

- `usb:`—Local USB disk
- `ftp://host/path`—Path on an FTP site or on the local system

**Value**— URL

<no-reboot>— (Optional) Do not reboot after upgrade

### Required Privilege Level

maintenance

## <restart>

### Usage

```
<rpc>
  <restart>
    <component> component </component>
    <flag> flag-choice </flag>
  </restart>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Restart an SRC component that is running on the system.

### Contents

<component>— Name of SRC component to restart.

**Value**— Name of component

<flag>— (Optional) Method to use to restart component.

#### Value

- *gracefully*— Shutdown the component, then start it again.
- *immediately*— Send a signal kill (SIGKILL) signal to immediately stop the component, then start it again.
- *soft*— Send a signal hangup (SIGHUP) signal to the process for the component to restart the component.

**Default**—*gracefully*

### Required Privilege Level

reset

## <set-date>

### Usage

```
<rpc>  
  <set-date>  
    <time> time </time>  
  </set-date>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Set the system date and time.

### Contents

<time>— System date and time.

**Value**— System date and time in the format YYYYMMDDhhmm.ss in which:

- YYYY—Year. Contains 4 digits.
- mm—Month. A number 1–12.
- DD—Day. A number 1–31
- mm—Minute. A number 0–59.
- ss—Second. A number 0–59.

For example, to enter the time 12:15 and 30 seconds on October 30, 2006 enter 200610301215.30.

### Required Privilege Level

maintenance

## <set-date-ntp>

### Usage

```
<rpc>
  <set-date-ntp>
    <servers> servers </servers>
  </set-date-ntp>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Use NTP to set the date and time for the C-series Controller.

> **Note:** For normal operation, we strongly recommended that you configure NTP to maintain local time. For additional information, see the **system ntp** configuration statement.

If NTP is enabled it is not possible to set the time manually.

### Contents

<servers>— List of the IP addresses of NTP servers to use.

**Value**— IP address(es)

### Required Privilege Level

maintenance

## <set-level>

### Usage

```
<rpc>
  <set-level>
    <level> level-choice </level>
  </set-level>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Set the access level for the CLI commands. The access level controls the number of commands and configuration statements accessible to the user.

### Contents

<level>—Editing level

#### Value

- **basic**— Minimal set of configuration statements and commands. Only the statements that must be configured are visible.
- **normal**— Normal set of configuration statements and commands. The common and basic statements are visible.
- **advanced**— All configuration statements and commands, including the common and basic ones, are visible.
- **expert**— All configuration statements, including common, basic, and internal statements and commands used for debugging are visible.

### Required Privilege Level

No specific privilege required.



## <sdx-component>

### Usage

```
< sdx-component xmlns= "http://xml.juniper.net/sdx/sdx-component">
  < name> name </name>
  < status> status </status>
  < version> version </version>
< /sdx-component>
```

### Contents

< name>

Name of the component  
**Value**—Text

< status>

Runtime status of the component  
**Value**—Text

< version>

Release version of the component  
**Value**—Text

### Style

#### **brief**

```
< name>
< status>
< version>
```

#### **status**

```
< name>
< status>
```

#### **version**

```
< name>
```

**< version>**

## <sdx-component-list>

### Usage

```
< sdx-component-list xmlns= "http://xml.juniper.net/sdx/sdx-component-list">  
  < sdx-component xmlns= "http://xml.juniper.net/sdx/sdx-component"> ... < /sdx-component>  
< /sdx-component-list>
```

### Contents

< sdx-component>

Multiple tag: can occur zero or more times.

[sdx-component](#)

### Style

#### **brief**

< sdx-component>



# Juniper Networks Database Operational Tag Elements

[Table 8](#) lists the SRC CLI operational mode commands that have corresponding SRC XML request tag elements in the current version of the SRC software, and maps each command to its request tag element. CLI commands are listed in alphabetical order.

For a list of mappings organized alphabetically by request tag element name, see [Table 9](#). For more information about CLI commands, see the *SRC PE CLI Command Reference*.

For a list of response tag elements, see [Table 10](#).

Table 8: Mapping of Juniper Networks Database CLI Commands to Operational Tag Elements

| CLI Command                                   | Request Tag Element                           |
|---|---|
| request system ldap change-admin-password     | request-system-ldap-change-admin-password     |
| request system ldap change-component-password | request-system-ldap-change-component-password |
| request system ldap community force-update    | request-system-ldap-community-force-update    |
| request system ldap community initialize      | request-system-ldap-community-initialize      |
| request system ldap load                      | request-system-ldap-load                      |
| show system ldap community                    | get-jdb-community-data                        |
| show system ldap statistics                   | get-jdb-counter-data                          |

[Table 9](#) maps SRC XML operational request tag elements to SRC CLI commands. Tag elements are listed in alphabetical order.

Table 9: Mapping of Juniper Networks Database Operational Tag Elements to CLI Commands

| Request Tag Element   | CLI Command                                   |
|---|---|
| <a href="#">get-jdb-community-data</a>                        | show system ldap community                    |
| <a href="#">get-jdb-counter-data</a>                          | show system ldap statistics                   |
| <a href="#">request-system-ldap-change-admin-password</a>     | request system ldap change-admin-password     |
| <a href="#">request-system-ldap-change-component-password</a> | request system ldap change-component-password |
| <a href="#">request-system-ldap-community-force-update</a>    | request system ldap community force-update    |
| <a href="#">request-system-ldap-community-initialize</a>      | request system ldap community initialize      |
| <a href="#">request-system-ldap-load</a>                      | request system ldap load                      |

[Table 10](#) lists the SRC XML operational response tag elements. Tag elements are listed in alphabetical order.

Table 10: Operational Response Tag Elements

| <b>Response Tag Element</b>        |
|------------------------------------|
| <a href="#">community-data</a>     |
| <a href="#">local-counter-data</a> |
| <a href="#">neighbor-data</a>      |

## **<get-jdb-community-data>**

### **Usage**

```
<rpc>  
  <get-jdb-community-data>  
  </get-jdb-community-data>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Display statistics for a community of Juniper Networks databases.

### **Required Privilege Level**

view

### **Output Tag**

[community-data](#)

## **<get-jdb-counter-data>**

### **Usage**

```
<rpc>  
  <get-jdb-counter-data>  
  </get-jdb-counter-data>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Display local operation statistics for the Juniper Networks database.

### **Required Privilege Level**

view

### **Output Tag**

[local-counter-data](#)



## <request-system-ldap-change-admin-password>

### Usage

```
<rpc>  
  <request-system-ldap-change-admin-password>  
    <new-password> new-password </new-password>  
  </request-system-ldap-change-admin-password>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Change the administrative password for the Juniper Networks database.

### Contents

<new-password>— New administrative password for the Juniper Networks database.

**Value**— *password*

### Required Privilege Level

maintenance

## <request-system-ldap-change-component-password>

### Usage

```
<rpc>
  <request-system-ldap-change-component-password>
    <component> component-choice </component>
    <new-password> new-password </new-password>
  </request-system-ldap-change-component-password>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Change the password that a specified SRC component uses to communicate with the Juniper Networks database.

### Contents

<component>— Name of an SRC component.

### Value

- `cli`— Password that the SRC CLI uses to communicate with the Juniper Networks database.
- `licenseReader`— Password that the SRC license server uses to obtain licensing information from the Juniper Networks database.
- `licenseWriter`— Password that the SRC license server uses to provide licensing information to the Juniper Networks database.
- `nic`— Password that the Network Information Collector (NIC) uses to communicate with the Juniper Networks database.
- `sae`— Password that the SAE uses to communicate with the Juniper Networks database for changes to the following repositories in the database: Users, Services, Policies, and Networks.
- `conf`— Password used to communicate configuration information with the Juniper Networks database.

<new-password>— New password SRC component

**Value**— *password*

**Required Privilege Level**

maintenance

## <request-system-ldap-community-force-update>

### Usage

```
<rpc>  
  <request-system-ldap-community-force-update>  
    <neighbor> neighbor </neighbor>  
  </request-system-ldap-community-force-update>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

For a specified neighbor, update data that has changed since the neighbor database was last active.

### Contents

<neighbor>— Name of neighbor to be updated.

**Value**— Neighbor name

### Required Privilege Level

maintenance

## <request-system-ldap-community-initialize>

### Usage

```
<rpc>  
  <request-system-ldap-community-initialize>  
    <neighbor> neighbor </neighbor>  
  </request-system-ldap-community-initialize>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Initialize data for a specified neighbor in a community of Juniper Networks databases.

### Contents

<neighbor>— Name of the neighbor to initialize.

**Value**— Neighbor name

### Required Privilege Level

maintenance

## <request-system-ldap-load>

### Usage

```
<rpc>
  <request-system-ldap-load>
    <data> data-choice </data>
    <replace-flag> replace-flag-choice </replace-flag>
  </request-system-ldap-load>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Load sample data supplied with the SRC software.

### Contents

<data>— Type of data to be loaded.

#### Value

- equipment-registration— Sample data for the sample residential portal to demonstrate an application that provides an association between a subscriber and the equipment being used to make the DHCP connection.
- isp-service-portal— Sample data for the sample residential portal to demonstrate an application that provides a means for subscribers to directly log in to a subscriber session for their ISP.
- enterprise-portal— Sample data for the Enterprise Manager Portal and the sample enterprise service portal.
- snmp-agent— Sample data for SNMP traps for SNMP agent.
- dsa-configuration— Sample data for the Dynamic Service Activator.
- hostchecker-configuration— Sample data Instant Virtual Extremity (IVE) Host Checker integration application.
- idp-configuration— Sample data for the Intrusion Detection and Prevention (IDP) integration application.
- tm-configuration— Sample data for the traffic mirroring application.

<replace-flag>— (Optional) Replace all existing entries or only new entries. If it is first time to load one specific ldap sample data, the choice of replace or merge would make no

difference.

**Value**

- `replace`— Replace all existing entries or adding new entries from a given ldif file
- `merge`— Replace only deleted entries or adding new entries from a given ldif file

**Default**— `merge`

**Required Privilege Level**

`maintenance`

## <community-data>

### Usage

```
< community-data xmlns= "http://xml.juniper.net/sdx/community-data">  
  < neighbor-data xmlns= "http://xml.juniper.net/sdx/neighbor-data"> ... </neighbor-data>  
< /community-data>
```

### Contents

< neighbor-data>

Multiple tag: can occur zero or more times.

[neighbor-data](#)



## <local-counter-data>

### Usage

```
< local-counter-data xmlns= "http://xml.juniper.net/sdx/local-counter-data">
  < add-operations> add-operations < /add-operations>
  < anonymous-bind-operations> anonymous-bind-operations < /anonymous-bind-operations>
  < bind-errors> bind-errors < /bind-errors>
  < bind-operations> bind-operations < /bind-operations>
  < compare-operations> compare-operations < /compare-operations>
  < connections> connections < /connections>
  < current-connections> current-connections < /current-connections>
  < delete-operations> delete-operations < /delete-operations>
  < errors> errors < /errors>
  < list-operations> list-operations < /list-operations>
  < modify-operations> modify-operations < /modify-operations>
  < read-operations> read-operations < /read-operations>
  < rename-operations> rename-operations < /rename-operations>
  < subtree-search-operations> subtree-search-operations < /subtree-search-operations>
< /local-counter-data>
```

### Contents

< add-operations> —Number of Add operations since startup

**Value**—Integer in the range -2147483648–2147483647

< anonymous-bind-operations> —Number of Anonymous Bind operations since startup

**Value**—Integer in the range -2147483648–2147483647

< bind-errors> —Number of bind errors since startup

**Value**—Integer in the range -2147483648–2147483647

< bind-operations> —Number of Bind operations

**Value**—Integer in the range -2147483648–2147483647

< compare-operations> —Number of Compare operations since startup

**Value**—Integer in the range -2147483648–2147483647

< connections> —Number of all connections since startup

**Value**—Integer in the range -2147483648–2147483647

< current-connections> —Number of current connections

**Value**—Integer in the range -2147483648–2147483647

< delete-operations> —Number of Delete operations since startup

**Value**—Integer in the range -2147483648–2147483647

< errors> —Number of all errors since startup

**Value**—Integer in the range -2147483648–2147483647

< list-operations> —Number of List operations since startup

**Value**—Integer in the range -2147483648–2147483647

< modify-operations> —Number of Modify operations since startup

**Value**—Integer in the range -2147483648–2147483647

< read-operations> —Number of Read operations since startup

**Value**—Integer in the range -2147483648–2147483647

< rename-operations> —Number of Rename operations since startup

**Value**—Integer in the range -2147483648–2147483647

< subtree-search-operations> —Number of Subtree Search operations since startup

**Value**—Integer in the range -2147483648–2147483647

## <neighbor-data>

### Usage

```
< neighbor-data xmlns= "http://xml.juniper.net/sdx/neighbor-data">
  < changes-sent-since-last-startup> changes-sent-since-last-startup < /changes-sent-since-last-startup>
  < last-update-end-time> last-update-end-time < /last-update-end-time>
  < last-update-start-time> last-update-start-time < /last-update-start-time>
  < last-update-status> last-update-status < /last-update-status>
  < name> name < /name>
  < role> role < /role>
< /neighbor-data>
```

### Contents

< changes-sent-since-last-startup> —Changes since last startup

**Value**—Integer in the range -2147483648–2147483647

< last-update-end-time> —End time of last update

**Value**—Text

< last-update-start-time> —Start time of last update

**Value**—Text

< last-update-status> —Status of last update

**Value**—Text

< name> —Community neighbor

**Value**—Text

< role> —Role of neighbor

**Value**—Text



## SAE Operational Tag Elements

[Table 11](#) lists the SRC CLI operational mode commands that have corresponding SRC XML request tag elements in the current version of the SRC software, and maps each command to its request tag element. CLI commands are listed in alphabetical order.

For a list of mappings organized alphabetically by request tag element name, see [Table 12](#). For more information about CLI commands, see the *SRC PE CLI Command Reference*.

For a list of response tag elements, see [Table 13](#).

Table 11: Mapping of SAE CLI Commands to Operational Tag Elements

|  |  |
|--|--|
| clear sae directory-blacklist                  | clear-sae-directory-blacklist                  |
| clear sae registered equipment                 | clear-sae-registered-equipment                 |
| clear sae registered login                     | clear-sae-registered-login                     |
| request sae import-pilot-license               | request-sae-import-pilot-license               |
| request sae load configuration                 | request-sae-load-configuration                 |
| request sae load domain-map                    | request-sae-load-domain-map                    |
| request sae load interface-classification      | request-sae-load-interface-classification      |
| request sae load services                      | request-sae-load-services                      |
| request sae load subscriptions                 | request-sae-load-subscriptions                 |
| request sae login ip authenticated-dhcp        | request-sae-login-ip-authenticated-dhcp        |
| request sae login ip authenticated-interface   | request-sae-login-ip-authenticated-interface   |
| request sae login ip unauthenticated-dhcp      | request-sae-login-ip-unauthenticated-dhcp      |
| request sae login ip unauthenticated-interface | request-sae-login-ip-unauthenticated-interface |
| request sae logout dn                          | request-sae-logout-dn                          |
| request sae logout ip                          | request-sae-logout-ip                          |
| request sae logout login-name                  | request-sae-logout-login-name                  |
| request sae logout session-id                  | request-sae-logout-session-id                  |
| request sae modify device failover             | request-sae-modify-device-failover             |
| request sae remove-pilot-license               | request-sae-remove-pilot-license               |
| request sae shutdown device                    | request-sae-shutdown-device                    |

|   |   |
|---|---|
| request sae update ip-pools               | request-sae-update-ip-pools                 |
| request sae update qos-profiles           | request-sae-update-qos-profiles             |
| show sae directory-blacklist              | get-sae-directory-blacklist                 |
| show sae drivers                          | get-sae-drivers                             |
| show sae interfaces                       | get-sae-interfaces                          |
| show sae licenses                         | get-sae-licenses                            |
| show sae policies                         | get-sae-policies                            |
| show sae registered equipment             | get-sae-registered-equipment                |
| show sae registered login                 | get-sae-registered-login                    |
| show sae services                         | get-sae-services                            |
| show sae statistics device                | get-sae-statistics-router                   |
| show sae statistics device common         | get-sae-statistics-router-common            |
| show sae statistics directory             | get-sae-statistics-diretory                 |
| show sae statistics directory connections | get-sae-statistics-directory-connections    |
| show sae statistics license client        | get-sae-statistics-license-client           |
| show sae statistics license device        | get-sae-statistics-license-device           |
| show sae statistics license local         | get-sae-statistics-license-local            |
| show sae statistics policy-management     | get-sae-statistics-policy-management        |
| show sae statistics process               | get-sae-statistics-process                  |
| show sae statistics radius                | get-sae-statistics-radius                   |
| show sae statistics radius client         | get-sae-statistics-radius-client            |
| show sae statistics sessions              | get-sae-statistics-sessions                 |
| show sae subscribers                      | get-sae-subscribers                         |
| show sae subscribers dn                   | get-sae-statistics-subscribers-dn           |
| show sae subscribers ip                   | get-sae-statistics-subscribers-ip           |
| show sae subscribers login-name           | get-sae-statistics-subscribers-login-name   |
| show sae subscribers service-name         | get-sae-statistics-subscribers-service-name |
| show sae subscribers session-id           | get-sae-statistics-subscribers-session-id   |

|                  |                            |
|------------------|----------------------------|
| show sae threads | get-sae-statistics-threads |
|------------------|----------------------------|

[Table 12](#) maps SRC XML operational request tag elements to SRC CLI commands. Tag elements are listed in alphabetical order.

Table 12: Mapping of SAE Operational Tag Elements to CLI Commands

| <b>Request Tag Element</b>                               | <b>CLI Command</b>                        |
|--|---|
| <a href="#">clear-sae-directory-blacklist</a>            | clear sae directory-blacklist             |
| <a href="#">clear-sae-registered-equipment</a>           | clear sae registered equipment            |
| <a href="#">clear-sae-registered-login</a>               | clear sae registered login                |
| <a href="#">get-sae-directory-blacklist</a>              | show sae directory-blacklist              |
| <a href="#">get-sae-drivers</a>                          | show sae drivers                          |
| <a href="#">get-sae-interfaces</a>                       | show sae interfaces                       |
| <a href="#">get-sae-licenses</a>                         | show sae licenses                         |
| <a href="#">get-sae-policies</a>                         | show sae policies                         |
| <a href="#">get-sae-registered-equipment</a>             | show sae registered equipment             |
| <a href="#">get-sae-registered-login</a>                 | show sae registered login                 |
| <a href="#">get-sae-services</a>                         | show sae services                         |
| <a href="#">get-sae-statistics-diretory</a>              | show sae statistics directory             |
| <a href="#">get-sae-statistics-directory-connections</a> | show sae statistics directory connections |
| <a href="#">get-sae-statistics-license-client</a>        | show sae statistics license client        |
| <a href="#">get-sae-statistics-license-device</a>        | show sae statistics license device        |
| <a href="#">get-sae-statistics-license-local</a>         | show sae statistics license local         |
| <a href="#">get-sae-statistics-policy-management</a>     | show sae statistics policy-management     |
| <a href="#">get-sae-statistics-process</a>               | show sae statistics process               |
| <a href="#">get-sae-statistics-radius</a>                | show sae statistics radius                |
| <a href="#">get-sae-statistics-radius-client</a>         | show sae statistics radius client         |
| <a href="#">get-sae-statistics-router</a>                | show sae statistics device                |
| <a href="#">get-sae-statistics-router-common</a>         | show sae statistics device common         |

|  |  |
|--|--|
| <a href="#">get-sae-statistics-sessions</a>                    | show sae statistics sessions                   |
| <a href="#">get-sae-statistics-subscribers-dn</a>              | show sae subscribers dn                        |
| <a href="#">get-sae-statistics-subscribers-ip</a>              | show sae subscribers ip                        |
| <a href="#">get-sae-statistics-subscribers-login-name</a>      | show sae subscribers login-name                |
| <a href="#">get-sae-statistics-subscribers-service-name</a>    | show sae subscribers service-name              |
| <a href="#">get-sae-statistics-subscribers-session-id</a>      | show sae subscribers session-id                |
| <a href="#">get-sae-statistics-threads</a>                     | show sae threads                               |
| <a href="#">get-sae-subscribers</a>                            | show sae subscribers                           |
| <a href="#">request-sae-import-pilot-license</a>               | request sae import-pilot-license               |
| <a href="#">request-sae-load-configuration</a>                 | request sae load configuration                 |
| <a href="#">request-sae-load-domain-map</a>                    | request sae load domain-map                    |
| <a href="#">request-sae-load-interface-classification</a>      | request sae load interface-classification      |
| <a href="#">request-sae-load-services</a>                      | request sae load services                      |
| <a href="#">request-sae-load-subscriptions</a>                 | request sae load subscriptions                 |
| <a href="#">request-sae-login-ip-authenticated-dhcp</a>        | request sae login ip authenticated-dhcp        |
| <a href="#">request-sae-login-ip-authenticated-interface</a>   | request sae login ip authenticated-interface   |
| <a href="#">request-sae-login-ip-unauthenticated-dhcp</a>      | request sae login ip unauthenticated-dhcp      |
| <a href="#">request-sae-login-ip-unauthenticated-interface</a> | request sae login ip unauthenticated-interface |
| <a href="#">request-sae-logout-dn</a>                          | request sae logout dn                          |
| <a href="#">request-sae-logout-ip</a>                          | request sae logout ip                          |
| <a href="#">request-sae-logout-login-name</a>                  | request sae logout login-name                  |
| <a href="#">request-sae-logout-session-id</a>                  | request sae logout session-id                  |
| <a href="#">request-sae-modify-device-failover</a>             | request sae modify device failover             |
| <a href="#">request-sae-remove-pilot-license</a>               | request sae remove-pilot-license               |
| <a href="#">request-sae-shutdown-device</a>                    | request sae shutdown device                    |
| <a href="#">request-sae-update-ip-pools</a>                    | request sae update ip-pools                    |
| <a href="#">request-sae-update-qos-profiles</a>                | request sae update qos-profiles                |



[Table 13](#) lists the SRC XML operational response tag elements. Tag elements are listed in alphabetical order.

Table 13: Operational Response Tag Elements

| <b>Response Tag Element</b>                      |
|--|
| <a href="#">AAA-router-driver</a>                |
| <a href="#">accounting-data</a>                  |
| <a href="#">auth-profile</a>                     |
| <a href="#">default-ICC</a>                      |
| <a href="#">dhcp-option</a>                      |
| <a href="#">dhcp-packet</a>                      |
| <a href="#">directory-statistics</a>             |
| <a href="#">floating-context</a>                 |
| <a href="#">generic</a>                          |
| <a href="#">hotstandby-info</a>                  |
| <a href="#">interface-classification-context</a> |
| <a href="#">interfaces</a>                       |
| <a href="#">ISE-router-driver</a>                |
| <a href="#">job-queue</a>                        |
| <a href="#">junos-e-base-driver</a>              |
| <a href="#">junos-e-router-driver</a>            |
| <a href="#">junos-e-sap</a>                      |
| <a href="#">junos-e-XDR-router-driver</a>        |
| <a href="#">junos-router-driver</a>              |
| <a href="#">junos-service-activation-point</a>   |
| <a href="#">license-client-statistics</a>        |
| <a href="#">license-manager</a>                  |
| <a href="#">licenses</a>                         |

|  |
|--|
| <a href="#">mac-cache-data</a>               |
| <a href="#">message-queue</a>                |
| <a href="#">pcmm-router-driver</a>           |
| <a href="#">pcmm-SAP</a>                     |
| <a href="#">persistent-login-profile</a>     |
| <a href="#">policy-management-statistics</a> |
| <a href="#">policy-shared-ctx</a>            |
| <a href="#">primary-hotstandby-info</a>      |
| <a href="#">process-statistics</a>           |
| <a href="#">radius-client-statistics</a>     |
| <a href="#">radius-statistics</a>            |
| <a href="#">registrations</a>                |
| <a href="#">replicator</a>                   |
| <a href="#">router-common-statistics</a>     |
| <a href="#">router-driver</a>                |
| <a href="#">router-statistics</a>            |
| <a href="#">routers</a>                      |
| <a href="#">SAE-license</a>                  |
| <a href="#">secondary-hotstandby-info</a>    |
| <a href="#">service-activation-point</a>     |
| <a href="#">service-profile</a>              |
| <a href="#">service-session-attributes</a>   |
| <a href="#">service-session</a>              |
| <a href="#">service</a>                      |
| <a href="#">services</a>                     |
| <a href="#">session-factory</a>              |
| <a href="#">sessions-statistics</a>          |

|   |
|---|
| <a href="#">sim-router-driver</a>           |
| <a href="#">sim-SAP</a>                     |
| <a href="#">state-synchronizer</a>          |
| <a href="#">statistics-set</a>              |
| <a href="#">statistics</a>                  |
| <a href="#">thread-group-wrapper</a>        |
| <a href="#">thread-wrapper</a>              |
| <a href="#">transaction-manager</a>         |
| <a href="#">user-classification-context</a> |
| <a href="#">user-profile</a>                |
| <a href="#">user-session</a>                |
| <a href="#">user-sessions</a>               |
| <a href="#">user-type</a>                   |
| <a href="#">XDR-state-synchronizer</a>      |

## **<clear-sae-directory-blacklist>**

### **Usage**

```
<rpc>  
  <clear-sae-directory-blacklist>  
  </clear-sae-directory-blacklist>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Delete directory blacklist or remove a server from the directory blacklist. A server is added to the blacklist if it repeatedly fails to respond while the server is running and accepting requests.

### **Required Privilege Level**

clear

## <clear-sae-registered-equipment>

### Usage

```
<rpc>
  <clear-sae-registered-equipment>
    <mac-address> mac-address </mac-address>
    <persistent/>
  </clear-sae-registered-equipment>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Delete entries in the equipment registration cache.

### Contents

<mac-address>— (Optional) MAC address of equipment registrations.

**Value**— MAC address in the format xx:xx:xx:xx:xx:x

**Default**— No value

<persistent>— (Optional) Flag indicating that equipment registration is also removed from the directory. If you do not set this flag, the equipment registration is removed only from the memory. Disabled

**Default**—false

### Required Privilege Level

clear

## <clear-sae-registered-login>

### Usage

```
<rpc>  
  <clear-sae-registered-login>  
    <mac-address> mac-address </mac-address>  
    <persistent/>  
  </clear-sae-registered-login>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Delete entries in the login registration cache.

### Contents

<mac-address>— (Optional) MAC address of login registrations.

**Value**— MAC address in the format xx:xx:xx:xx:xx:xx

**Default**— No value

<persistent>— (Optional) Flag indicating that login registration is also removed from the directory. If you do not set this flag, the login registration is removed only from the memory.

**Default**— Disabled

### Required Privilege Level

clear

## **<get-sae-directory-blacklist>**

### **Usage**

```
<rpc>  
  <get-sae-directory-blacklist>  
  </get-sae-directory-blacklist>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Display the directory blacklist.

### **Required Privilege Level**

view

### **Output Tag**

[directory-black-list](#)

## <get-sae-drivers>

### Usage

```
<rpc>
  <get-sae-drivers>
    <device-name> device-name </device-name>
    <style> style-choice </style>
    <maximum-results> maximum-results </maximum-results>
  </get-sae-drivers>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display the state of SAE device drivers. Each device driver manages one logical router instance. For example, a JUNOS routing platform, a JUNOS virtual router, a PCMM device, or another third-party device.

### Contents

<device-name>— (Optional) Name of a device.

**Value**— All or part of the device name.

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

**Default**— No value

<style>— (Optional) Output style

**Value**

- `brief`— Display only virtual router names.

**Default**— Detail



<maximum-results>— (Optional) Number of results to be displayed.

**Value**—Integer in the range 1-2147483647

**Default**— 25

### Required Privilege Level

view

### Output Tag

[routers](#)

## <get-sae-interfaces>

### Usage

```
<rpc>
  <get-sae-interfaces>
    <interface-name> interface-name </interface-name>
    <virtual-router> virtual-router </virtual-router>
    <style> style-choice </style>
    <maximum-results> maximum-results </maximum-results>
  </get-sae-interfaces>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display information about router interfaces that the SAE is managing.

### Contents

<interface-name>— (Optional) Name of router interface.

**Value**— All or part of the interface name

**Default**— No value

<virtual-router>— (Optional) Name of virtual router.

**Value**— All or part of the virtual router name

**Default**— No value

<style>— (Optional) Output style.

**Value**

- **brief**— Display only interface names.

**Default**— Detail

<maximum-results>— (Optional) Number of results to be displayed.

**Value**—Integer in the range 1–2147483647  
**Default**— 25

#### **Required Privilege Level**

view

#### **Output Tag**

[interfaces](#)

## **<get-sae-licenses>**

### **Usage**

```
<rpc>  
  <get-sae-licenses>  
  </get-sae-licenses>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Display licenses and the status of licenses running on the SAE.

### **Required Privilege Level**

view

## <get-sae-policies>

### Usage

```
<rpc>
  <get-sae-policies>
    <group> group </group>
    <style> style-choice </style>
    <maximum-results> maximum-results </maximum-results>
  </get-sae-policies>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display policy groups.

### Contents

<group>— (Optional) Name of a policy group.

**Value**— All or part of the policy group name

**Default**— No value

<style>— (Optional) Output style.

#### **Value**

- **brief**— Display only policy group names.

**Default**—detail

<maximum-results>— (Optional) Number of results to be displayed.

**Value**—Integer in the range 1–2147483647

**Default**— 25

### Required Privilege Level

view

**Output Tag**

[policies](#)

## <get-sae-registered-equipment>

### Usage

```
<rpc>
  <get-sae-registered-equipment>
    <mac-address> mac-address </mac-address>
    <style> style-choice </style>
    <maximum-results> maximum-results </maximum-results>
  </get-sae-registered-equipment>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display equipment registrations.

### Contents

<mac-address>— (Optional) MAC address of equipment registrations.

**Value**— MAC address in the format xx:xx:xx:xx:xx:xx

**Default**— No value

<style>— (Optional) Output style.

#### Value

- **brief**— Display only the MAC address of registered equipment.

**Default**— Detail

<maximum-results>— (Optional) Number of results to be displayed.

**Value**— Integer in the range 1–2147483647

**Default**— 25

## **Required Privilege Level**

view



## <get-sae-registered-login>

### Usage

```
<rpc>
  <get-sae-registered-login>
    <mac-address> mac-address </mac-address>
    <style> style-choice </style>
    <maximum-results> maximum-results </maximum-results>
  </get-sae-registered-login>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display login registrations.

### Contents

<mac-address>— (Optional) MAC address of login registrations.

**Value**— MAC address in the format xx:xx:xx:xx:xx:xx

**Default**— No value

<style>— (Optional) Output style

#### **Value**

- **brief**— Display only the MAC address of login registrations.

**Default**— Detail

<maximum-results>— (Optional) Number of results to be displayed.

**Value**— Integer in the range 1–2147483647

**Default**— 25

## **Required Privilege Level**

view

## <get-sae-services>

### Usage

```
<rpc>
  <get-sae-services>
    <name> name </name>
    <secret/>
    <style> style-choice </style>
    <maximum-results> maximum-results </maximum-results>
  </get-sae-services>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display the state of services running on the SAE.

### Contents

<name>— (Optional) Name of service.

**Value**— All or part of the service name

**Default**— No value

<secret>— (Optional) Display subscriber sessions and service sessions for hidden services.

**Default**— Disabled

<style>— (Optional) Output style

**Value**

- **brief**— Display only service names.

**Default**— Detail

<maximum-results>— (Optional) Number of results to be displayed.

**Value**—Integer in the range 1–2147483647

**Default**— 25

### Required Privilege Level

view

### Output Tag

[services](#)

## **<get-sae-statistics-diretory>**

### **Usage**

```
<rpc>  
  <get-sae-statistics-diretory>  
  </get-sae-statistics-diretory>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Display SNMP statistics about the directory.

### **Required Privilege Level**

view

### **Output Tag**

[directory-statistics](#)

## <get-sae-statistics-directory-connections>

### Usage

```
<rpc>
  <get-sae-statistics-directory-connections>
    <id> id </id>
    <style> style-choice </style>
  </get-sae-statistics-directory-connections>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display SNMP statistics for directory connections.

### Contents

<id>— (Optional) Directory connection ID.

**Value**— All or part of the connection ID

**Default**— No value

<style>— (Optional) Output style

#### Value

- **brief**— Display only directory connection IDs.

**Default**— Detail

### Required Privilege Level

view

### Output Tag

[connections](#)

## <get-sae-statistics-license-client>

### Usage

```
<rpc>  
  <get-sae-statistics-license-client>  
  </get-sae-statistics-license-client>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display SNMP information about the state of client licenses.

### Required Privilege Level

view

### Output Tag

[license-client-statistics](#)

## <get-sae-statistics-license-device>

### Usage

```
<rpc>
  <get-sae-statistics-license-device>
    <name> name </name>
    <style> style-choice </style>
  </get-sae-statistics-license-device>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display SNMP information about the state of licenses on specified devices.

### Contents

<name>— (Optional) Name of a device.

**Value**— All or part of the device name.

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

**Default**— No value

<style>— (Optional) Output style

**Value**

- brief— Display only device names.

**Default**— Detail

### Required Privilege Level



view

**Output Tag**

[licenses](#)

## **<get-sae-statistics-license-local>**

### **Usage**

```
<rpc>  
  <get-sae-statistics-license-local>  
  </get-sae-statistics-license-local>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Display SNMP information about the state of local licenses.

### **Required Privilege Level**

view

### **Output Tag**

[license-manager](#)

## <get-sae-statistics-policy-management>

### Usage

```
<rpc>  
  <get-sae-statistics-policy-management>  
  </get-sae-statistics-policy-management>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display SNMP information about the policy engine, policy decision point, and the shared object repository where the policy objects are stored.

### Required Privilege Level

view

### Output Tag

[policy-management-statistics](#)

## **<get-sae-statistics-process>**

### **Usage**

```
<rpc>  
  <get-sae-statistics-process>  
  </get-sae-statistics-process>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Display SNMP information about the SAE server process.

### **Required Privilege Level**

view

### **Output Tag**

[process-statistics](#)

## <get-sae-statistics-radius>

### Usage

```
<rpc>  
  <get-sae-statistics-radius>  
  </get-sae-statistics-radius>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display SNMP RADIUS information. Display SNMP statistics for RADIUS clients.

### Required Privilege Level

view

### Output Tag

[radius-statistics](#)

## <get-sae-statistics-radius-client>

### Usage

```
<rpc>
  <get-sae-statistics-radius-client>
    <client-type> client-type-choice </client-type>
    <ip-address> ip-address </ip-address>
    <udp-port> udp-port </udp-port>
    <style> style-choice </style>
  </get-sae-statistics-radius-client>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display SNMP information about RADIUS clients.

### Contents

<client-type>— Display SNMP information for either RADIUS accounting clients or RADIUS authentication clients.

#### Value

- **accounting**— Display SNMP information for RADIUS accounting clients.
- **authentication**— Display SNMP information for RADIUS authentication clients.

**Default**— No value

<ip-address>— (Optional) IP address or addresses of RADIUS clients.

**Value**— All or part of the client IP address

**Default**— No value

<udp-port>— (Optional) Port number for RADIUS clients.

**Value**— All or part of the client port number

**Default**— No value

`<style>`— (Optional) Output style.

**Value**

- `brief`— Display only a list of the clients that are accessible by IP address and port number.

**Default**— Detail

**Required Privilege Level**

view

**Output Tag**

[statistics-set](#)

## <get-sae-statistics-router>

### Usage

```
<rpc>
  <get-sae-statistics-router>
    <name> name </name>
    <style> style-choice </style>
  </get-sae-statistics-router>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display SNMP information for routers and other devices that the SAE is managing. For example, Juniper Networks routers, PCMM devices, and other third-party devices.

### Contents

<name>— (Optional) Name of a device.

**Value**— All or part of the device name.

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

**Default**— No value

<style>— (Optional) Output style

**Value**

- brief— Display only device names.

**Default**— Detail

### Required Privilege Level



view

**Output Tag**

[statistics-set](#)

## <get-sae-statistics-router-common>

### Usage

```
<rpc>
  <get-sae-statistics-router-common>
    <type> type-choice </type>
  </get-sae-statistics-router-common>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display SNMP statistics for all device drivers of a particular type.

### Contents

<type>— (Optional) Display SNMP statistics for a specified device driver type.

#### Value

- junos— JUNOS router drivers.
- junose-cops— JUNOSe router drivers.
- packetcable-cops— PCMM device drivers.
- proxy— Third-party device drivers.
- aaa— AAA device drivers.
- intelligent-service-edge— ISE device drivers.

**Default**— No value

### Required Privilege Level

view

## **<get-sae-statistics-sessions>**

### **Usage**

```
<rpc>  
  <get-sae-statistics-sessions>  
  </get-sae-statistics-sessions>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Display SNMP statistics for subscriber sessions and service sessions.

### **Required Privilege Level**

view

### **Output Tag**

[sessions-statistics](#)

## <get-sae-statistics-subscribers-dn>

### Usage

```
<rpc>
  <get-sae-statistics-subscribers-dn>
    <filter> filter </filter>
  </get-sae-statistics-subscribers-dn>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display subscriber sessions accessible by DN. All subscribers who have a subscriber profile in the directory are accessible by DN.

### Contents

`<filter>`— (Optional) DN of the subscribers.

**Value**— All or part of the subscriber DN

**Default**— No value

### Required Privilege Level

view

## <get-sae-statistics-subscribers-ip>

### Usage

```
<rpc>  
  <get-sae-statistics-subscribers-ip>  
    <address> address </address>  
  </get-sae-statistics-subscribers-ip>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display subscriber sessions that are accessible by IP address. The following subscribers are accessible by IP address: DHCP subscribers, authenticated PPP subscribers, and static IP subscribers who have logged in through a portal.

### Contents

<address>— (Optional) IP address of subscriber sessions.

**Value**— All or part of the subscriber IP address

**Default**— No value

### Required Privilege Level

view

## <get-sae-statistics-subscribers-login-name>

### Usage

```
<rpc>  
  <get-sae-statistics-subscribers-login-name>  
    <filter> filter </filter>  
  </get-sae-statistics-subscribers-login-name>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display subscriber sessions accessible by login name. All authenticated subscribers are accessible by login name.

### Contents

<filter>— (Optional) Login name of subscriber sessions.

**Value**— All or part of the subscriber login name

**Default**— No value

### Required Privilege Level

view

## <get-sae-statistics-subscribers-service-name>

### Usage

```
<rpc>  
  <get-sae-statistics-subscribers-service-name>  
    <filter> filter </filter>  
  </get-sae-statistics-subscribers-service-name>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display all active subscriber sessions activated from a subscription to the specified service name.

### Contents

<filter>— (Optional) Service name of subscriber sessions.

**Value**— All or part of the service name

**Default**— No value

### Required Privilege Level

view

## <get-sae-statistics-subscribers-session-id>

### Usage

```
<rpc>  
  <get-sae-statistics-subscribers-session-id>  
    <filter> filter </filter>  
  </get-sae-statistics-subscribers-session-id>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display subscriber sessions by session ID.

### Contents

<filter>— (Optional) ID of subscriber sessions.

**Value**— All or part of the subscriber session ID

**Default**— No value

### Required Privilege Level

view



## <get-sae-statistics-threads>

### Usage

```
<rpc>  
  <get-sae-statistics-threads>  
  </get-sae-statistics-threads>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display information about threads and their priority on the SAE.

### Required Privilege Level

view

### Output Tag

[thread-group-wrapper](#)

## <get-sae-subscribers>

### Usage

```
<rpc>
  <get-sae-subscribers>
    <maximum-results> maximum-results </maximum-results>
    <secret/>
    <style> style-choice </style>
  </get-sae-subscribers>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display information about subscriber sessions.

### Contents

**<maximum-results>**— (Optional) Number of results to be displayed.

**Value**—Integer in the range 1–2147483647

**Default**— 25

**<secret>**— (Optional) Display subscriber sessions and service sessions for hidden services.

**Default**— Disabled

**<style>**— (Optional) Output style

**Value**

- **brief**— Display subscriber session information. Service sessions are not displayed.
- **terse**— Display subscriber session ID, login name, and IP address.

**Default**— Detail

### Required Privilege Level

view

**Output Tag**

[user-sessions](#)

## <request-sae-import-pilot-license>

### Usage

```
<rpc>
  <request-sae-import-pilot-license>
    <file-name> file-name </file-name>
    <server-address> server-address </server-address>
    <name-space> name-space </name-space>
    <authentication-dn> authentication-dn </authentication-dn>
    <password> password </password>
  </request-sae-import-pilot-license>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Import the pilot license into the directory.

### Contents

<file-name>— Name of the file that contains the license.

**Value**— Text

**Default**— No value

<server-address>— (Optional) IP address of server to which you want to import the pilot license.

**Value**— IP address

**Default**— No value

<name-space>— (Optional) The string < base> is replaced with this value.

**Value**— Text

**Default**— No value

<authentication-dn>— (Optional) DN used for authentication with the directory.

**Value**— Text

**Default**— No Value

<password>— (Optional) Password used for authentication with the directory.

**Value**— Text

**Default**— No value

### Required Privilege Level

maintenance

## **<request-sae-load-configuration>**

### **Usage**

```
<rpc>  
  <request-sae-load-configuration>  
  </request-sae-load-configuration>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Reload SAE configuration data from the directory. The new configuration takes effect immediately.

### **Required Privilege Level**

maintenance

## **<request-sae-load-domain-map>**

### **Usage**

```
<rpc>  
  <request-sae-load-domain-map>  
  </request-sae-load-domain-map>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Reload the mapping of domain names to retailer entries. This mapping is made available to the SAE's subscriber classification script.

### **Required Privilege Level**

maintenance

## <request-sae-load-interface-classification>

### Usage

```
<rpc>  
  <request-sae-load-interface-classification>  
  </request-sae-load-interface-classification>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Reload the interface classification scripts from the directory, and apply the result of the interface classification changes to the router as follows:

- For every unmanaged interface that becomes managed, new default policies are downloaded to the router.
- For every managed interface whose default policy group has changed, the old default policies are replaced by the new ones.
- For every managed interface that becomes unmanaged, an error message in the error log is displayed and no changes are applied until the interface goes down.

### Required Privilege Level

maintenance



## **<request-sae-load-services>**

### **Usage**

```
<rpc>  
  <request-sae-load-services>  
  </request-sae-load-services>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Reload the following objects from the directory: services, scopes, virtual routers, policies, service mutex groups, and service schedules. Related service sessions are activated, deactivated, or reactivated, as needed.

### **Required Privilege Level**

maintenance

## **<request-sae-load-subscriptions>**

### **Usage**

```
<rpc>  
  <request-sae-load-subscriptions>  
  </request-sae-load-subscriptions>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Reload all subscriptions from the directory. Related service sessions are activated, deactivated, or reactivated as needed.

### **Required Privilege Level**

maintenance

## <request-sae-login-ip-authenticated-dhcp>

### Usage

```
<rpc>
  <request-sae-login-ip-authenticated-dhcp>
    <virtual-router> virtual-router </virtual-router>
    <address> address </address>
    <login-name> login-name </login-name>
    <mac-address> mac-address </mac-address>
    <interface-type> interface-type-choice </interface-type>
    <service-bundle> service-bundle </service-bundle>
    <radius-class> radius-class </radius-class>
    <interface-name> interface-name </interface-name>
    <interface-alias> interface-alias </interface-alias>
    <interface-description> interface-description </interface-description>
    <nas-port-id> nas-port-id </nas-port-id>
  </request-sae-login-ip-authenticated-dhcp>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Log in a simulated subscriber that is an authenticated DHCP subscriber. Logging in simulated subscribers allows you to test your SRC application without the need for a router or other device.

### Contents

**<virtual-router>**— Name of a simulated virtual router that you want to appear in the simulated subscriber session.

**Value**— Text

**Default**— No value

**<address>**— IP address from which you log in simulated subscribers.

**Value**— IP address

**Default**— No value

**<login-name>**— Fully qualified name used to log in simulated subscribers.

**Value**— Fully qualified name

**Default**— No value

`<mac-address>`— MAC address used to log in simulated subscribers.

**Value**— MAC address in the format xx:xx:xx:xx:xx:xx

**Default**— 00:00:00:00:00:01

`<interface-type>`— Selects between IPv4 or IPv6 subscribers

**Value**

- ipv4—IPv4
- ipv6—IPv6

`<service-bundle>`— (Optional) Service bundle used when logging in simulated subscribers.

**Value**— Service bundle name

**Default**— No value

`<radius-class>`— (Optional) RADIUS class used when logging in simulated subscribers.

**Value**— RADIUS class

**Default**— No value

`<interface-name>`— (Optional) Virtual interface used when logging in simulated subscribers.

**Value**— Virtual router name

**Default**— No value

`<interface-alias>`— (Optional) Interface description used when logging in simulated subscribers. If you are simulating JUNOSe routers, interface alias is the description that is configured on JUNOSe routers with the **interface description** command.

**Value**— Text

**Default**— No value

`<interface-description>`— (Optional) Alternate interface name used when logging in simulated subscribers. This is the interface name that is used by SNMP.

**Value**— If you are simulating a:

- JUNOSe router, the format of the description is ip< slot> /< port> .  
< subinterface>
- JUNOS routing platform, ifDesc is the same as interfaceName.

**Default**— No value

<nas-port-id>— (Optional) Port identifier of an interface used when logging in simulated subscribers.

**Value**— Includes interface name and additional layer 2 information. For example, fastEthernet 3/1.

**Default**— No value

### Required Privilege Level

maintenance

## <request-sae-login-ip-authenticated-interface>

### Usage

```
<rpc>
  <request-sae-login-ip-authenticated-interface>
    <virtual-router> virtual-router </virtual-router>
    <address> address </address>
    <login-name> login-name </login-name>
    <interface-type> interface-type-choice </interface-type>
    <service-bundle> service-bundle </service-bundle>
    <radius-class> radius-class </radius-class>
    <interface-name> interface-name </interface-name>
    <interface-alias> interface-alias </interface-alias>
    <interface-description> interface-description </interface-description>
    <nas-port-id> nas-port-id </nas-port-id>
  </request-sae-login-ip-authenticated-interface>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Log in a simulated subscriber that is an authenticated interface subscriber. Logging in simulated subscribers allows you to test your SRC application without the need for a router or other device.

### Contents

<virtual-router>— Name of a simulated virtual router that you want to appear in the simulated subscriber session.

**Value**— Text

**Default**— No value

<address>— IP address from which you log in simulated subscribers.

**Value**— IP address

**Default**— No value

<login-name>— Fully qualified name used to log in simulated subscribers.

**Value**— Fully qualified name

**Default**— No value

<interface-type>— Selects between IPv4 or IPv6 subscribers

**Value**

- ipv4—IPv4
- ipv6—IPv6

<service-bundle>— (Optional) Service bundle used when logging in simulated subscribers.

**Value**— Service bundle name

**Default**— No value

<radius-class>— (Optional) RADIUS class used when logging in simulated subscribers.

**Value**— RADIUS class

**Default**— No value

<interface-name>— (Optional) Virtual interface used when logging in simulated subscribers.

**Value**— Virtual router name

**Default**— No value

<interface-alias>— (Optional) Interface description used when logging in simulated subscribers. If you are simulating JUNOS routers, interface alias is the description that is configured on JUNOS routers with the **interface description** command.

**Value**— Text

**Default**— No value

<interface-description>— (Optional) Alternate interface name used when logging in simulated subscribers. This is the interface name that is used by SNMP.

**Value**— If you are simulating a:

- JUNOS router, the format of the description is ip< slot> /< port> .  
  < subinterface>
- JUNOS routing platform, ifDesc is the same as interfaceName.

**Default**— No value

`<nas-port-id>`— (Optional) Port identifier of an interface used when logging in simulated subscribers.

**Value**— Includes interface name and additional layer 2 information. For example, fastEthernet 3/1.

**Default**— No value

### Required Privilege Level

maintenance



## <request-sae-login-ip-unauthenticated-dhcp>

### Usage

```
<rpc>
  <request-sae-login-ip-unauthenticated-dhcp>
    <virtual-router> virtual-router </virtual-router>
    <address> address </address>
    <mac-address> mac-address </mac-address>
    <interface-type> interface-type-choice </interface-type>
    <login-name> login-name </login-name>
    <service-bundle> service-bundle </service-bundle>
    <radius-class> radius-class </radius-class>
    <interface-name> interface-name </interface-name>
    <interface-alias> interface-alias </interface-alias>
    <interface-description> interface-description </interface-description>
    <nas-port-id> nas-port-id </nas-port-id>
  </request-sae-login-ip-unauthenticated-dhcp>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Log in a simulated subscriber that is an unauthenticated DHCP subscriber. Logging in simulated subscribers allows you to test your SRC application without the need for a router or other device.

### Contents

<virtual-router>— Name of a simulated virtual router that you want to appear in the simulated subscriber session.

**Value**— Text

**Default**— No value

<address>— IP address from which you log in simulated subscribers.

**Value**— IP address

**Default**— No value

<mac-address>— MAC address used to log in simulated subscribers.

**Value**— MAC address in the format xx:xx:xx:xx:xx:xx

**Default**— 00:00:00:00:00:01

<interface-type>— Selects between IPv4 or IPv6 subscribers

**Value**

- ipv4—IPv4
- ipv6—IPv6

<login-name>— (Optional) Fully qualified name used to log in simulated subscribers.

**Value**— Fully qualified name

**Default**— No value

<service-bundle>— (Optional) Service bundle used when logging in simulated subscribers.

**Value**— Service bundle name

**Default**— No value

<radius-class>— (Optional) RADIUS class used when logging in simulated subscribers.

**Value**— RADIUS class

**Default**— No value

<interface-name>— (Optional) Virtual interface used when logging in simulated subscribers.

**Value**— Virtual router name

**Default**— No value

<interface-alias>— (Optional) Interface description used when logging in simulated subscribers. If you are simulating JUNOSe routers, interface alias is the description that is configured on JUNOSe routers with the **interface description** command.

**Value**— Text

**Default**— No value

<interface-description>— (Optional) Alternate interface name used when logging in simulated subscribers. This is the interface name that is used by SNMP.

**Value**— If you are simulating a:

- JUNOSe router, the format of the description is ip< slot> /< port> .  
< subinterface>
- JUNOS routing platform, ifDesc is the same as interfaceName.

**Default**— No value

<nas-port-id>— (Optional) Port identifier of an interface used when logging in simulated subscribers.

**Value**— Includes interface name and additional layer 2 information. For example, fastEthernet 3/1.

**Default**— No value

### Required Privilege Level

maintenance

## <request-sae-login-ip-unauthenticated-interface>

### Usage

```
<rpc>
  <request-sae-login-ip-unauthenticated-interface>
    <virtual-router> virtual-router </virtual-router>
    <interface-name> interface-name </interface-name>
    <interface-type> interface-type-choice </interface-type>
    <address> address </address>
    <login-name> login-name </login-name>
    <service-bundle> service-bundle </service-bundle>
    <radius-class> radius-class </radius-class>
    <interface-alias> interface-alias </interface-alias>
    <interface-description> interface-description </interface-description>
    <nas-port-id> nas-port-id </nas-port-id>
  </request-sae-login-ip-unauthenticated-interface>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Log in a simulated subscriber that is an unauthenticated interface subscriber. Logging in simulated subscribers allows you to test your SRC application without the need for a router or other device.

### Contents

<virtual-router>— Name of a simulated virtual router that you want to appear in the simulated subscriber session.

**Value**— Text

**Default**— No value

<interface-name>— Virtual interface used when logging in simulated subscribers.

**Value**— Virtual interface name

**Default**— No value

<interface-type>— Selects between IPv4 or IPv6 subscribers

**Value**

- ipv4—IPv4
- ipv6—IPv6

<address>— (Optional) IP address from which you log in simulated subscribers.

**Value**— IP address

**Default**— No value

<login-name>— (Optional) Fully qualified name used to log in simulated subscribers.

**Value**— Fully qualified name

**Default**— No value

<service-bundle>— (Optional) Service bundle used when logging in simulated subscribers.

**Value**— Service bundle name

**Default**— No value

<radius-class>— (Optional) RADIUS class used when logging in simulated subscribers.

**Value**— RADIUS class

**Default**— No value

<interface-alias>— (Optional) Interface description used when logging in simulated subscribers. If you are simulating JUNOSe routers, interface alias is the description that is configured on JUNOSe routers with the **interface description** command.

**Value**— Text

**Default**— No value

<interface-description>— (Optional) Alternate interface name used when logging in simulated subscribers. This is the interface name that is used by SNMP.

**Value**— If you are simulating a:

- JUNOSe router, the format of the description is ip< slot> /< port> .  
  < subinterface>
- JUNOS routing platform, ifDesc is the same as interfaceName.

**Default**— No value

`<nas-port-id>`— (Optional) Port identifier of an interface used when logging in simulated subscribers.

**Value**— Includes interface name and additional layer 2 information. For example, fastEthernet 3/1.

**Default**— No value

### Required Privilege Level

maintenance

## <request-sae-logout-dn>

### Usage

```
<rpc>  
  <request-sae-logout-dn>  
    <filter> filter </filter>  
  </request-sae-logout-dn>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Log out subscribers who are accessible by DN. All subscribers who have a subscriber profile in the directory are accessible by DN.

### Contents

**<filter>**— (Optional) DN or DNs of subscribers that you want to log out.

**Value**— All or part of the subscriber DN

**Default**— No value

### Required Privilege Level

clear

## <request-sae-logout-ip>

### Usage

```
<rpc>  
  <request-sae-logout-ip>  
    <filter> filter </filter>  
  </request-sae-logout-ip>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Log out subscribers who are accessible by IP address. The following types of subscribers are accessible by IP address: DHCP subscribers, authenticated PPP subscribers, and static IP subscribers who have logged in through a portal.

### Contents

**<filter>**— (Optional) IP address or addresses of subscribers that you want to log out.

**Value**— All or part of the subscriber IP address

**Default**— No value

### Required Privilege Level

clear



## <request-sae-logout-login-name>

### Usage

```
<rpc>
  <request-sae-logout-login-name>
    <filter> filter </filter>
  </request-sae-logout-login-name>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Log out subscribers who are accessible by login name. All authenticated subscribers are accessible by login name.

### Contents

<filter>— (Optional) Login name or names of subscribers that you want to log out.

**Value**— All or part of the login name

**Default**— No value

### Required Privilege Level

clear

## <request-sae-logout-session-id>

### Usage

```
<rpc>  
  <request-sae-logout-session-id>  
    <filter> filter </filter>  
  </request-sae-logout-session-id>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Log out subscribers who are accessible by session ID. All subscribers are accessible by session ID.

### Contents

**<filter>**— (Optional) Session ID or IDs of subscribers that you want to log out.

**Value**— All or part of the subscriber session ID

**Default**— No value

### Required Privilege Level

clear

## <request-sae-modify-device-failover>

### Usage

```
<rpc>
  <request-sae-modify-device-failover>
    <ip-address> ip-address </ip-address>
    <tcp-port> tcp-port </tcp-port>
    <use-failover-server/>
    <virtual-router> virtual-router </virtual-router>
  </request-sae-modify-device-failover>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Modify failover server parameters.

### Contents

<ip-address>— (Optional) IP address of an alternate SAE server to which a router or other device can reconnect when the device driver closes its connection. If the driver is configured to use this failover IP address, it sends this IP address to the router or other device when it closes its connection. The device then attempts to open a new connection to the failover IP address. This address is not applicable to the PCMM driver.

**Value**— IP address

**Default**— 0.0.0.0

<tcp-port>— (Optional) Port of an alternate SAE server to which a router or other device can reconnect when the device driver closes its connection. If the driver is configured to use this failover port, it sends this failover port to the router or other device when it closes its connection. The device then attempts to open a new connection to this failover port. This TCP port is not applicable to the PCMM driver.

**Value**— Port number

**Default**— 0

<use-failover-server>— (Optional) If you set this flag, then the device driver sends its own failover IP address and port to the router or other device when it closes its connection. The device then attempts to open a new connection to the failover IP address and port. This flag is not applicable to the PCMM router driver.

**Default**— Disabled

`<virtual-router>`— Virtual router name.

**Value**— Name of the virtual router.

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

**Default**— No value

### Required Privilege Level

reset

## <request-sae-remove-pilot-license>

### Usage

```
<rpc>
  <request-sae-remove-pilot-license>
    <host-id> host-id </host-id>
    <server-address> server-address </server-address>
    <name-space> name-space </name-space>
    <authentication-dn> authentication-dn </authentication-dn>
    <password> password </password>
    <all/>
  </request-sae-remove-pilot-license>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Remove the pilot license from the directory.

### Contents

<host-id>— (Optional) Host ID identifying the pilot license to be removed.

**Value**— *hostid*

**Default**— No value

<server-address>— (Optional) IP address of server to which you want to import the pilot license.

**Value**— IP address

**Default**— No value

<name-space>— (Optional) The string < base> is replaced with this value.

**Value**— Text

**Default**— No value

<authentication-dn>— (Optional) DN used for authentication with the directory.

**Value**— Text

**Default**— No Value

`<password>`— (Optional) Password used for authentication with the directory.

**Value**— Text

**Default**— No value

`<all>`— (Optional) Remove all pilot licenses.

### Required Privilege Level

maintenance

## <request-sae-shutdown-device>

### Usage

```
<rpc>
  <request-sae-shutdown-device>
    <name> name </name>
  </request-sae-shutdown-device>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Shut down the specified device driver.

### Contents

**<name>**— (Optional) Device name or names that are managing the drivers that you want to shut down.

**Value**— All or part of the device name.

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

**Default**— No value

### Required Privilege Level

maintenance

## <request-sae-update-ip-pools>

### Usage

```
<rpc>
  <request-sae-update-ip-pools>
    <virtual-router> virtual-router </virtual-router>
    <management-address> management-address </management-address>
    <SNMP-community> SNMP-community </SNMP-community>
    <server> server </server>
    <base-dn> base-dn </base-dn>
    <principal> principal </principal>
    <credentials> credentials </credentials>
  </request-sae-update-ip-pools>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

### Contents

<virtual-router>— Name of the virtual router in the format  
virtualRouterName@deviceName.

**Value**— Text

**Default**— No value

<management-address>— (Optional) The IP address of the virtual router.

**Value**— IP address

**Default**— -

<SNMP-community>— (Optional) SNMP community for a given virtual router.

**Value**— Text

**Default**— public

<server>— (Optional) IP address or name of the host that supports the directory.

**Value**— IP address or name of the host



**Default**— 127.0.0.1

<base-dn>— (Optional) The base DN for the root of the tree to be used.

**Value**— DN

**Default**— o= Network,o= UMC

<principal>— (Optional) DN that defines the username with which an SRC component accesses the directory.

**Value**— DN

**Default**— No Value

<credentials>— (Optional) Password used for authentication with the directory server.

**Value**— Text

**Default**— No value

## Required Privilege Level

maintenance

## <request-sae-update-qos-profiles>

### Usage

```
<rpc>
  <request-sae-update-qos-profiles>
    <virtual-router> virtual-router </virtual-router>
    <management-address> management-address </management-address>
    <SNMP-community> SNMP-community </SNMP-community>
    <server> server </server>
    <base-dn> base-dn </base-dn>
    <principal> principal </principal>
    <credentials> credentials </credentials>
  </request-sae-update-qos-profiles>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

### Contents

<virtual-router>— Name of the virtual router in the format  
virtualRouterName@deviceName.

**Value**— Text

**Default**— No value

<management-address>— (Optional) The IP address of the virtual router.

**Value**— IP address

**Default**— -

<SNMP-community>— (Optional) SNMP community for a given virtual router.

**Value**— Text

**Default**— public

<server>— (Optional) IP address or name of the host that supports the directory.

**Value**— IP address or name of the host

**Default**— 127.0.0.1

<base-dn>— (Optional) The base DN for the root of the tree to be used.

**Value**— DN

**Default**— o= Network,o= UMC

<principal>— (Optional) DN that defines the username with which an SRC component accesses the directory.

**Value**— DN

**Default**— No Value

<credentials>— (Optional) Password used for authentication with the directory server.

**Value**— Text

**Default**— No value

## Required Privilege Level

maintenance

## <AAA-router-driver>

### Usage

```
< AAA-router-driver xmlns= "http://xml.juniper.net/sdx/AAA-router-driver">
  < active-peers> active-peers < /active-peers>
  < last-connection-update-time> last-connection-update-time < /last-connection-update-time>
  < length-of-job-queue> length-of-job-queue < /length-of-job-queue>
  < local-ip> local-ip < /local-ip>
  < number-of-AAR> number-of-AAR < /number-of-AAR>
  < number-of-ACR> number-of-ACR < /number-of-ACR>
  < number-of-ASR-attempt> number-of-ASR-attempt < /number-of-ASR-attempt>
  < number-of-STR> number-of-STR < /number-of-STR>
  < number-of-device-timeout-ASA> number-of-device-timeout-ASA < /number-of-device-timeout-ASA>
  < number-of-device-timeout-PPA> number-of-device-timeout-PPA < /number-of-device-timeout-PPA>
  < number-of-initial-AAR> number-of-initial-AAR < /number-of-initial-AAR>
  < number-of-policy-add-PPR-attempt> number-of-policy-add-PPR-attempt < /number-of-policy-add-PPR-attempt>
  < number-of-policy-modify-PPR-attempt> number-of-policy-modify-PPR-attempt < /number-of-policy-modify-PPR-attempt>
  < number-of-policy-remove-PPR-attempt> number-of-policy-remove-PPR-attempt < /number-of-policy-remove-PPR-attempt>
  < number-of-route-config-PPR-attempt> number-of-route-config-PPR-attempt < /number-of-route-config-PPR-attempt>
  < number-of-sap> number-of-sap < /number-of-sap>
  < number-of-secondary-AAR> number-of-secondary-AAR < /number-of-secondary-AAR>
  < number-of-send-failed-ASR> number-of-send-failed-ASR < /number-of-send-failed-ASR>
  < number-of-send-failed-PPR> number-of-send-failed-PPR < /number-of-send-failed-PPR>
  < number-of-sent-ASR> number-of-sent-ASR < /number-of-sent-ASR>
  < number-of-sent-PPR> number-of-sent-PPR < /number-of-sent-PPR>
  < number-of-service-download-AAR> number-of-service-download-AAR < /number-of-service-download-AAR>
  < number-of-service-interim-ACR> number-of-service-interim-ACR < /number-of-service-interim-ACR>
  < number-of-service-start-ACR> number-of-service-start-ACR < /number-of-service-start-ACR>
  < number-of-service-stop-ACR> number-of-service-stop-ACR < /number-of-service-stop-ACR>
  < number-of-user-interim-ACR> number-of-user-interim-ACR < /number-of-user-interim-ACR>
  < number-of-user-start-ACR> number-of-user-start-ACR < /number-of-user-start-ACR>
  < number-of-user-stop-ACR> number-of-user-stop-ACR < /number-of-user-stop-ACR>
  < router-name> router-name < /router-name>
  < router-type> router-type < /router-type>
  < session-factory xmlns= "http://xml.juniper.net/sdx/session-factory"> ... < /session-factory>
  < state> state < /state>
< /AAA-router-driver>
```

### Contents

< active-peers> —Active Peers

**Value**—Text

< last-connection-update-time> —Last Connection Update Time

**Value**—Text

< length-of-job-queue> —Length of job queue

**Value**—Integer in the range -2147483648–2147483647

< local-ip> —Local IP

**Value**—Text

< number-of-AAR> —AAR messages received

**Value**—Integer in the range -2147483648–2147483647

< number-of-ACR> —ACR messages received

**Value**—Integer in the range -2147483648–2147483647

< number-of-ASR-attempt> —ASR messages attempted

**Value**—Integer in the range -2147483648–2147483647

< number-of-STR> —STR messages received

**Value**—Integer in the range -2147483648–2147483647

< number-of-device-timeout-ASA> —Device-Timeout ASA messages received

**Value**—Integer in the range -2147483648–2147483647

< number-of-device-timeout-PPA> —Device-Timeout PPA messages received

**Value**—Integer in the range -2147483648–2147483647

< number-of-initial-AAR> —Initial AAR messages received

**Value**—Integer in the range -2147483648–2147483647

< number-of-policy-add-PPR-attempt> —Policy-Add PPR messages attempted

**Value**—Integer in the range -2147483648–2147483647

< number-of-policy-modify-PPR-attempt> —Policy-Modify PPR messages attempted

**Value**—Integer in the range -2147483648–2147483647

< number-of-policy-remove-PPR-attempt> —Policy-Remove PPR messages attempted

**Value**—Integer in the range -2147483648–2147483647

< number-of-route-config-PPR-attempt> —Route-Config PPR messages attempted

**Value**—Integer in the range -2147483648–2147483647

< number-of-sap> —Number of SAP

**Value**—Integer in the range -2147483648–2147483647

< number-of-secondary-AAR> —Secondary AAR messages received

**Value**—Integer in the range -2147483648–2147483647

< number-of-send-failed-ASR> —Failure-Notified ASR messages sent

**Value**—Integer in the range -2147483648–2147483647

< number-of-send-failed-PPR> —Failure-Notified PPR messages sent

**Value**—Integer in the range -2147483648–2147483647

< number-of-sent-ASR> —ASR messages sent

**Value**—Integer in the range -2147483648–2147483647

< number-of-sent-PPR> —PPR messages sent

**Value**—Integer in the range -2147483648–2147483647

< number-of-service-download-AAR> —Service-Download AAR messages received

**Value**—Integer in the range -2147483648–2147483647

< number-of-service-interim-ACR> —Service-Interim ACR messages received

**Value**—Integer in the range -2147483648–2147483647

< number-of-service-start-ACR> —Service-Start ACR messages received

**Value**—Integer in the range -2147483648–2147483647

< number-of-service-stop-ACR> —Service-Stop ACR messages received

**Value**—Integer in the range -2147483648–2147483647

< number-of-user-interim-ACR> —User-Interim ACR messages received

**Value**—Integer in the range -2147483648–2147483647

< number-of-user-start-ACR> —User-Start ACR messages received

**Value**—Integer in the range -2147483648–2147483647

< number-of-user-stop-ACR> —User-Stop ACR messages received

**Value**—Integer in the range -2147483648–2147483647

< router-name> —Device name

**Value**—Text

< router-type> —Device type

**Value**—Text

< session-factory> —SessionFactory

[session-factory](#)

< state> —State

**Value**—Text

## Style

### brief

< router-name>

### detail

< active-peers>  
 < last-connection-update-time>  
 < length-of-job-queue>  
 < local-ip>  
 < number-of-AAR>  
 < number-of-ACR>  
 < number-of-ASR-attempt>  
 < number-of-STR>  
 < number-of-device-timeout-ASA>  
 < number-of-device-timeout-PPA>  
 < number-of-initial-AAR>  
 < number-of-policy-add-PPR-attempt>  
 < number-of-policy-modify-PPR-attempt>  
 < number-of-policy-remove-PPR-attempt>  
 < number-of-route-config-PPR-attempt>  
 < number-of-sap>  
 < number-of-secondary-AAR>  
 < number-of-send-failed-ASR>  
 < number-of-send-failed-PPR>  
 < number-of-sent-ASR>  
 < number-of-sent-PPR>  
 < number-of-service-download-AAR>  
 < number-of-service-interim-ACR>  
 < number-of-service-start-ACR>  
 < number-of-service-stop-ACR>  
 < number-of-user-interim-ACR>  
 < number-of-user-start-ACR>  
 < number-of-user-stop-ACR>  
 < router-name>  
 < router-type>  
 < session-factory>  
 < state>



## <accounting-data>

### Usage

```
< accounting-data xmlns= "http://xml.juniper.net/sdx/accounting-data">
  < bytes-from-user> bytes-from-user < /bytes-from-user>
  < bytes-to-user> bytes-to-user < /bytes-to-user>
  < packets-from-user> packets-from-user < /packets-from-user>
  < packets-to-user> packets-to-user < /packets-to-user>
< /accounting-data>
```

### Contents

< bytes-from-user> —Bytes from user

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< bytes-to-user> —Bytes to user

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< packets-from-user> —Packets from user

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< packets-to-user> —Packets to user

**Value**—Integer in the range -9223372036854775808–9223372036854775807

## <auth-profile>

### Usage

```
< auth-profile xmlns= "http://xml.juniper.net/sdx/auth-profile">
  < login-name> login-name < /login-name>
  < password> password < /password>
  < user-domain-name> user-domain-name < /user-domain-name>
  < user-id> user-id < /user-id>
< /auth-profile>
```

### Contents

< login-name> —User login name

**Value**—Text

< password> —User password

**Value**—Text

< user-domain-name> —User domain name

**Value**—Text

< user-id> —User ID

**Value**—Text

## <default-ICC>

### Usage

```
< default-ICC xmlns= "http://xml.juniper.net/sdx/default-ICC">
  < broadcast-address> broadcast-address </broadcast-address>
  < if-alias> if-alias </if-alias>
  < if-desc> if-desc </if-desc>
  < if-index> if-index </if-index>
  < interface-name> interface-name </interface-name>
  < interface-speed> interface-speed </interface-speed>
  < interface-type> interface-type </interface-type>
  < ip-address> ip-address </ip-address>
  < ip-mask> ip-mask </ip-mask>
  < mtu> mtu </mtu>
  < nas-ip> nas-ip </nas-ip>
  < nas-port> nas-port </nas-port>
  < nas-port-id> nas-port-id </nas-port-id>
  < ppp-login-name> ppp-login-name </ppp-login-name>
  < radius-class> radius-class </radius-class>
  < service-bundle> service-bundle </service-bundle>
  < session-id> session-id </session-id>
  < user-ip-address> user-ip-address </user-ip-address>
  < virtual-router-name> virtual-router-name </virtual-router-name>
< /default-ICC>
```

### Contents

< broadcast-address> —Broadcast address

**Value**—IP address

< if-alias> —Interface alias

**Value**—Text

< if-desc> —Interface description

**Value**—Text

< if-index> —Interface index

**Value**—Integer in the range -2147483648–2147483647

< interface-name> —Interface name

**Value**—Text

< interface-speed> —Interface speed

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< interface-type> —Interface type

< ip-address> —Ip address

**Value**—IP address

< ip-mask> —Ip mask

**Value**—Integer in the range -2147483648–2147483647

< mtu> —MTU

**Value**—Integer in the range -2147483648–2147483647

< nas-ip> —NAS ip

**Value**—IP address

< nas-port> —NAS Port

**Value**—Integer in the range -2147483648–2147483647

< nas-port-id> —NAS port id

**Value**—Text

< ppp-login-name> —PPP login name

**Value**—Text

< radius-class> —Radius class

**Value**—Text

< service-bundle> —Service bundle

**Value**—Text

< session-id> —Session id

**Value**—Text

< user-ip-address> —User ip address

**Value**—IP address

< virtual-router-name> —Device name

**Value**—Text

## Style

### brief

< interface-name>  
< virtual-router-name>

### detail

< broadcast-address>  
< if-alias>  
< if-desc>  
< if-index>  
< interface-name>  
< interface-speed>  
< interface-type>  
< ip-address>  
< ip-mask>  
< mtu>  
< nas-ip>  
< nas-port>  
< nas-port-id>  
< ppp-login-name>  
< service-bundle>  
< session-id>  
< user-ip-address>

**< virtual-router-name>**

## <dhcp-option>

### Usage

```
< dhcp-option xmlns= "http://xml.juniper.net/sdx/dhcp-option">  
  < value> value </value>  
< /dhcp-option>
```

### Contents

< value> —DHCP option

## <dhcp-packet>

### Usage

```
< dhcp-packet xmlns= "http://xml.juniper.net/sdx/dhcp-packet">  
  < dhcp-option xmlns= "http://xml.juniper.net/sdx/dhcp-option"> ... </dhcp-option>  
  < relay-agent-address> relay-agent-address </relay-agent-address>  
< /dhcp-packet>
```

### Contents

< dhcp-option>

Multiple tag: can occur zero or more times.

[dhcp-option](#)

< relay-agent-address> —Relay Agent address



## <directory-statistics>

### Usage

```
< directory-statistics xmlns= "http://xml.juniper.net/sdx/directory-statistics">
  < number-service-profiles-read> number-service-profiles-read < /number-service-profiles-read>
  < number-service-profiles-written> number-service-profiles-written < /number-service-profiles-written>
  < number-services-read> number-services-read < /number-services-read>
  < number-services-written> number-services-written < /number-services-written>
  < number-users-read> number-users-read < /number-users-read>
  < number-users-written> number-users-written < /number-users-written>
< /directory-statistics>
```

### Contents

< number-service-profiles-read> —Subscriptions read

**Value**—Integer in the range -2147483648–2147483647

< number-service-profiles-written> —Subscriptions written

**Value**—Integer in the range -2147483648–2147483647

< number-services-read> —Services read

**Value**—Integer in the range -2147483648–2147483647

< number-services-written> —Services written

**Value**—Integer in the range -2147483648–2147483647

< number-users-read> —Users read

**Value**—Integer in the range -2147483648–2147483647

< number-users-written> —Users written

**Value**—Integer in the range -2147483648–2147483647

## <floating-context>

### Usage

```
< floating-context xmlns= "http://xml.juniper.net/sdx/floating-context">
  < num-provisioning-objects-left-to-collect> num-provisioning-objects-left-to-collect < /num-provisioning-objects-left-to-collect>
  < session-factory xmlns= "http://xml.juniper.net/sdx/session-factory"> ... < /session-factory>
  < total-num-provisioning-objects-to-collect> total-num-provisioning-objects-to-collect < /total-num-provisioning-objects-to-collect>
< /floating-context>
```

### Contents

< num-provisioning-objects-left-to-collect> —Number of provisioning objects left to collect

**Value**—Integer in the range -2147483648–2147483647

< session-factory> —SessionFactory

[session-factory](#)

< total-num-provisioning-objects-to-collect> —Total number of provisioning objects to collect

**Value**—Integer in the range -2147483648–2147483647

## <generic>

### Usage

```
< generic xmlns= "http://xml.juniper.net/sdx/generic">  
  < generic-class> generic-class < /generic-class>  
< /generic>
```

### Contents

< generic-class>

## <hotstandby-info>

### Usage

```
< hotstandby-info xmlns= "http://xml.juniper.net/sdx/hotstandby-info">  
  < primary-hotstandby-info xmlns= "http://xml.juniper.net/sdx/primary-hotstandby-info"> ... < /primary-hotstandby-info>  
    < role> role < /role>  
  < secondary-hotstandby-info xmlns= "http://xml.juniper.net/sdx/secondary-hotstandby-info"> ... < /secondary-hotstandby-  
info>  
< /hotstandby-info>
```

### Contents

< primary-hotstandby-info>

[primary-hotstandby-info](#)

< role> —Device role

< secondary-hotstandby-info>

[secondary-hotstandby-info](#)

## <interface-classification-context>

### Usage

```
< interface-classification-context xmlns= "http://xml.juniper.net/sdx/interface-classification-context">  
  < default-ICC xmlns= "http://xml.juniper.net/sdx/default-ICC"> ... </default-ICC>  
< /interface-classification-context>
```

### Contents

< default-ICC>

[default-ICC](#)

## <interfaces>

### Usage

```
< interfaces xmlns= "http://xml.juniper.net/sdx/interfaces">
  < service-activation-point xmlns= "http://xml.juniper.net/sdx/service-activation-point"> ... < /service-activation-point>
< /interfaces>
```

### Contents

```
< service-activation-point>
```

Multiple tag: can occur zero or more times.

[service-activation-point](#)

### Style

#### **brief**

```
< service-activation-point>
```

#### **detail**

```
< service-activation-point>
```

## <ISE-router-driver>

### Usage

```
< ISE-router-driver xmlns= "http://xml.juniper.net/sdx/ISE-router-driver">
  < active-peers> active-peers < /active-peers>
  < last-connection-update-time> last-connection-update-time < /last-connection-update-time>
  < length-of-job-queue> length-of-job-queue < /length-of-job-queue>
  < local-ip> local-ip < /local-ip>
  < number-of-AAR> number-of-AAR < /number-of-AAR>
  < number-of-ACR> number-of-ACR < /number-of-ACR>
  < number-of-ASR-attempt> number-of-ASR-attempt < /number-of-ASR-attempt>
  < number-of-SRQ-attempt> number-of-SRQ-attempt < /number-of-SRQ-attempt>
  < number-of-SRQ-received> number-of-SRQ-received < /number-of-SRQ-received>
  < number-of-STR> number-of-STR < /number-of-STR>
  < number-of-address-auth-AAR> number-of-address-auth-AAR < /number-of-address-auth-AAR>
  < number-of-initial-AAR> number-of-initial-AAR < /number-of-initial-AAR>
  < number-of-policy-add-PPR-attempt> number-of-policy-add-PPR-attempt < /number-of-policy-add-PPR-attempt>
  < number-of-policy-remove-PPR-attempt> number-of-policy-remove-PPR-attempt < /number-of-policy-remove-PPR-attempt>
  < number-of-sap> number-of-sap < /number-of-sap>
  < number-of-secondary-AAR> number-of-secondary-AAR < /number-of-secondary-AAR>
  < number-of-send-failed-ASR> number-of-send-failed-ASR < /number-of-send-failed-ASR>
  < number-of-send-failed-PPR> number-of-send-failed-PPR < /number-of-send-failed-PPR>
  < number-of-send-failed-SRQ> number-of-send-failed-SRQ < /number-of-send-failed-SRQ>
  < number-of-sent-ASR> number-of-sent-ASR < /number-of-sent-ASR>
  < number-of-sent-PPR> number-of-sent-PPR < /number-of-sent-PPR>
  < number-of-sent-SRQ> number-of-sent-SRQ < /number-of-sent-SRQ>
  < number-of-service-interim-ACR> number-of-service-interim-ACR < /number-of-service-interim-ACR>
  < number-of-service-start-ACR> number-of-service-start-ACR < /number-of-service-start-ACR>
  < number-of-service-stop-ACR> number-of-service-stop-ACR < /number-of-service-stop-ACR>
  < number-of-sync-AAR> number-of-sync-AAR < /number-of-sync-AAR>
  < number-of-user-interim-ACR> number-of-user-interim-ACR < /number-of-user-interim-ACR>
  < number-of-user-start-ACR> number-of-user-start-ACR < /number-of-user-start-ACR>
  < number-of-user-stop-ACR> number-of-user-stop-ACR < /number-of-user-stop-ACR>
  < router-name> router-name < /router-name>
  < router-type> router-type < /router-type>
  < session-factory xmlns= "http://xml.juniper.net/sdx/session-factory"> ... < /session-factory>
  < state> state < /state>
< /ISE-router-driver>
```

### Contents

< active-peers> —Active Peers

**Value**—Text

< last-connection-update-time> —Last Connection Update Time

**Value**—Text

< length-of-job-queue> —Length of job queue

**Value**—Integer in the range -2147483648–2147483647

< local-ip> —Local IP

**Value**—Text

< number-of-AAR> —AAR messages received

**Value**—Integer in the range -2147483648–2147483647

< number-of-ACR> —ACR messages received

**Value**—Integer in the range -2147483648–2147483647

< number-of-ASR-attempt> —ASR messages attempted

**Value**—Integer in the range -2147483648–2147483647

< number-of-SRQ-attempt> —SRQ messages attempted

**Value**—Integer in the range -2147483648–2147483647

< number-of-SRQ-received> —SRQ messages received

**Value**—Integer in the range -2147483648–2147483647

< number-of-STR> —STR messages received

**Value**—Integer in the range -2147483648–2147483647

< number-of-address-auth-AAR> —Address authorization AAR messages received

**Value**—Integer in the range -2147483648–2147483647

< number-of-initial-AAR> —Initial provisioning AAR messages received



**Value**—Integer in the range -2147483648–2147483647

< number-of-policy-add-PPR-attempt> —Policy-Add PPR messages attempted

**Value**—Integer in the range -2147483648–2147483647

< number-of-policy-remove-PPR-attempt> —Policy-Remove PPR messages attempted

**Value**—Integer in the range -2147483648–2147483647

< number-of-sap> —Number of SAP

**Value**—Integer in the range -2147483648–2147483647

< number-of-secondary-AAR> —Secondary provisioning AAR messages received

**Value**—Integer in the range -2147483648–2147483647

< number-of-send-failed-ASR> —Failure-Notified ASR messages sent

**Value**—Integer in the range -2147483648–2147483647

< number-of-send-failed-PPR> —Failure-Notified PPR messages sent

**Value**—Integer in the range -2147483648–2147483647

< number-of-send-failed-SRQ> —Failure-Notified SRQ messages sent

**Value**—Integer in the range -2147483648–2147483647

< number-of-sent-ASR> —ASR messages sent

**Value**—Integer in the range -2147483648–2147483647

< number-of-sent-PPR> —PPR messages sent

**Value**—Integer in the range -2147483648–2147483647

< number-of-sent-SRQ> —SRQ messages sent

**Value**—Integer in the range -2147483648–2147483647

< number-of-service-interim-ACR> —Service-Interim ACR messages received

**Value**—Integer in the range -2147483648–2147483647

< number-of-service-start-ACR> —Service-Start ACR messages received

**Value**—Integer in the range -2147483648–2147483647

< number-of-service-stop-ACR> —Service-Stop ACR messages received

**Value**—Integer in the range -2147483648–2147483647

< number-of-sync-AAR> —Synchronization AAR messages received

**Value**—Integer in the range -2147483648–2147483647

< number-of-user-interim-ACR> —User-Interim ACR messages received

**Value**—Integer in the range -2147483648–2147483647

< number-of-user-start-ACR> —User-Start ACR messages received

**Value**—Integer in the range -2147483648–2147483647

< number-of-user-stop-ACR> —User-Stop ACR messages received

**Value**—Integer in the range -2147483648–2147483647

< router-name> —Device name

**Value**—Text

< router-type> —Device type

**Value**—Text

< session-factory> —SessionFactory

[session-factory](#)

< state> —State

**Value**—Text

## Style

### brief

< router-name>

### detail

< active-peers>  
 < last-connection-update-time>  
 < length-of-job-queue>  
 < local-ip>  
 < number-of-AAR>  
 < number-of-ACR>  
 < number-of-ASR-attempt>  
 < number-of-SRQ-attempt>  
 < number-of-SRQ-received>  
 < number-of-STR>  
 < number-of-address-auth-AAR>  
 < number-of-initial-AAR>  
 < number-of-policy-add-PPR-attempt>  
 < number-of-policy-remove-PPR-attempt>  
 < number-of-sap>  
 < number-of-secondary-AAR>  
 < number-of-send-failed-ASR>  
 < number-of-send-failed-PPR>  
 < number-of-send-failed-SRQ>  
 < number-of-sent-ASR>  
 < number-of-sent-PPR>  
 < number-of-sent-SRQ>  
 < number-of-service-interim-ACR>  
 < number-of-service-start-ACR>  
 < number-of-service-stop-ACR>  
 < number-of-sync-AAR>  
 < number-of-user-interim-ACR>  
 < number-of-user-start-ACR>  
 < number-of-user-stop-ACR>  
 < router-name>  
 < router-type>  
 < session-factory>

< state>

## <job-queue>

### Usage

```
< job-queue xmlns= "http://xml.juniper.net/sdx/job-queue">
  < age> age < /age>
  < avg-job-time> avg-job-time < /avg-job-time>
  < number-jobs-dequeued> number-jobs-dequeued < /number-jobs-dequeued>
  < number-jobs-queued> number-jobs-queued < /number-jobs-queued>
  < size> size < /size>
< /job-queue>
```

### Contents

< age> —Age (ms)

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< avg-job-time> —Average job time (ms)

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< number-jobs-dequeued> —Total dequeued

**Value**—Integer in the range -2147483648–2147483647

< number-jobs-queued> —Total enqueued

**Value**—Integer in the range -2147483648–2147483647

< size> —Size

**Value**—Integer in the range -2147483648–2147483647

## <junos-e-base-driver>

### Usage

```
< junos-e-base-driver xmlns= "http://xml.juniper.net/sdx/junos-e-base-driver">
  < dormant-device-timeout> dormant-device-timeout < /dormant-device-timeout>
  < is-dormant> is-dormant < /is-dormant>
  < job-queue xmlns= "http://xml.juniper.net/sdx/job-queue"> ... < /job-queue>
  < junos-e-XDR-router-driver xmlns= "http://xml.juniper.net/sdx/junos-e-XDR-router-driver"> ... < /junos-e-XDR-router-driver>
  < junos-e-router-driver xmlns= "http://xml.juniper.net/sdx/junos-e-router-driver"> ... < /junos-e-router-driver>
  < local-ip> local-ip < /local-ip>
  < number-of-interface-added> number-of-interface-added < /number-of-interface-added>
  < number-of-interface-changed> number-of-interface-changed < /number-of-interface-changed>
  < number-of-interface-deleted> number-of-interface-deleted < /number-of-interface-deleted>
  < number-of-notifications> number-of-notifications < /number-of-notifications>
  < number-of-outstanding-decisions> number-of-outstanding-decisions < /number-of-outstanding-decisions>
  < number-of-pap> number-of-pap < /number-of-pap>
  < number-of-provisioning-attempt> number-of-provisioning-attempt < /number-of-provisioning-attempt>
  < number-of-provisioning-attempt-failed> number-of-provisioning-attempt-failed < /number-of-provisioning-attempt-failed>
  < number-of-sap> number-of-sap < /number-of-sap>
  < router-ip> router-ip < /router-ip>
  < router-name> router-name < /router-name>
  < router-type> router-type < /router-type>
  < router-version> router-version < /router-version>
  < start-time> start-time < /start-time>
  < transport-router> transport-router < /transport-router>
< /junos-e-base-driver>
```

### Contents

< dormant-device-timeout> —Cached driver expiration

**Value**—Integer in the range -2147483648–2147483647

< is-dormant> —Device is dormant

**Value**—Boolean

< job-queue> —Job Queue

[job-queue](#)

< junos-e-XDR-router-driver>

[junos-e-XDR-router-driver](#)

< junos-e-router-driver>

[junos-e-router-driver](#)

< local-ip> —Local IP

**Value**—Text

< number-of-interface-added> —Number of processed added

**Value**—Integer in the range -2147483648–2147483647

< number-of-interface-changed> —Number of processed changed

**Value**—Integer in the range -2147483648–2147483647

< number-of-interface-deleted> —Number of processed deleted

**Value**—Integer in the range -2147483648–2147483647

< number-of-notifications> —Number of notifications

**Value**—Integer in the range -2147483648–2147483647

< number-of-outstanding-decisions> —Number of outstanding decisions

**Value**—Integer in the range -2147483648–2147483647

< number-of-pap> —Number of PAP

**Value**—Integer in the range -2147483648–2147483647

< number-of-provisioning-attempt> —Number of provisioning attempt

**Value**—Integer in the range -2147483648–2147483647

< number-of-provisioning-attempt-failed> —Number of provisioning attempt failed

**Value**—Integer in the range -2147483648–2147483647

< number-of-sap> —Number of SAP

**Value**—Integer in the range -2147483648–2147483647

< router-ip> —Device IP

**Value**—Text

< router-name> —Device name

**Value**—Text

< router-type> —Device type

**Value**—Text

< router-version> —Device version

**Value**—Text

< start-time> —Start time

**Value**—Text

< transport-router> —TransportRouter

**Value**—Text

## Style

### brief

< router-name>

### detail

< dormant-device-timeout>



< is-dormant>  
< job-queue>  
< junos-e-XDR-router-driver>  
< junos-e-router-driver>  
< local-ip>  
< number-of-interface-added>  
< number-of-interface-changed>  
< number-of-interface-deleted>  
< number-of-notifications>  
< number-of-outstanding-decisions>  
< number-of-pap>  
< number-of-provisioning-attempt>  
< number-of-provisioning-attempt-failed>  
< number-of-sap>  
< router-ip>  
< router-name>  
< router-type>  
< router-version>  
< start-time>  
< transport-router>

## <junos-e-router-driver>

### Usage

```
< junos-e-router-driver xmlns= "http://xml.juniper.net/sdx/junos-e-router-driver">  
  < hotstandby-info xmlns= "http://xml.juniper.net/sdx/hotstandby-info"> ... </hotstandby-info>  
  < policy-shared-ctx xmlns= "http://xml.juniper.net/sdx/policy-shared-ctx"> ... </policy-shared-ctx>  
  < state-synchronizer xmlns= "http://xml.juniper.net/sdx/state-synchronizer"> ... </state-synchronizer>  
< /junos-e-router-driver>
```

### Contents

< hotstandby-info>

[hotstandby-info](#)

< policy-shared-ctx>

[policy-shared-ctx](#)

< state-synchronizer>

[state-synchronizer](#)

## <junos-e-sap>

### Usage

```
< junos-e-sap xmlns= "http://xml.juniper.net/sdx/junos-e-sap">
  < interface-classification-context xmlns= "http://xml.juniper.net/sdx/interface-classification-context"> ... </interface-classification-context>
  < provisioning-set xmlns= "http://xml.juniper.net/sdx/provisioning-set"> ... </provisioning-set>
  < router-name> router-name </router-name>
  < user-session xmlns= "http://xml.juniper.net/sdx/user-session"> ... </user-session>
< /junos-e-sap>
```

### Contents

< interface-classification-context>

[interface-classification-context](#)

< provisioning-set>

[provisioning-set](#)

< router-name> —Device name

**Value**—Text

< user-session>

Multiple tag: can occur zero or more times.

[user-session](#)

### Style

#### brief

< interface-classification-context>

#### detail

```
< interface-classification-context>
< provisioning-set>
< user-session>
```

## <junos-e-XDR-router-driver>

### Usage

```
< junos-e-XDR-router-driver xmlns= "http://xml.juniper.net/sdx/junos-e-XDR-router-driver">  
  < XDR-state-synchronizer xmlns= "http://xml.juniper.net/sdx/XDR-state-synchronizer"> ... < /XDR-state-synchronizer>  
  < floating-context xmlns= "http://xml.juniper.net/sdx/floating-context"> ... < /floating-context>  
< /junos-e-XDR-router-driver>
```

### Contents

< XDR-state-synchronizer>

[XDR-state-synchronizer](#)

< floating-context>

[floating-context](#)

## <junos-router-driver>

### Usage

```
< junos-router-driver xmlns= "http://xml.juniper.net/sdx/junos-router-driver">
  < class-name> class-name </class-name>
  < job-queue-size> job-queue-size </job-queue-size>
  < local-ip> local-ip </local-ip>
  < number-of-notifications> number-of-notifications </number-of-notifications>
  < number-of-pap> number-of-pap </number-of-pap>
  < number-of-processed-added> number-of-processed-added </number-of-processed-added>
  < number-of-processed-changed> number-of-processed-changed </number-of-processed-changed>
  < number-of-processed-deleted> number-of-processed-deleted </number-of-processed-deleted>
  < number-of-provisioning-attempt> number-of-provisioning-attempt </number-of-provisioning-attempt>
  < number-of-provisioning-attempt-failed> number-of-provisioning-attempt-failed </number-of-provisioning-attempt-failed>
  < number-of-sap> number-of-sap </number-of-sap>
  < router-ip> router-ip </router-ip>
  < router-name> router-name </router-name>
  < router-type> router-type </router-type>
  < router-version> router-version </router-version>
  < start-time> start-time </start-time>
  < state-synchronizer xmlns= "http://xml.juniper.net/sdx/state-synchronizer"> ... </state-synchronizer>
  < transaction-manager xmlns= "http://xml.juniper.net/sdx/transaction-manager"> ... </transaction-manager>
  < transport-router> transport-router </transport-router>
</junos-router-driver>
```

### Contents

< class-name> —Device type

**Value**—Text

< job-queue-size> —Job queue size

**Value**—Integer in the range -2147483648–2147483647

< local-ip> —Local IP

**Value**—Text

< number-of-notifications> —Number of notifications

**Value**—Integer in the range -2147483648–2147483647

< number-of-pap> —Number of PAP

**Value**—Integer in the range -2147483648–2147483647

< number-of-processed-added> —Number of processed added

**Value**—Integer in the range -2147483648–2147483647

< number-of-processed-changed> —Number of processed changed

**Value**—Integer in the range -2147483648–2147483647

< number-of-processed-deleted> —Number of processed deleted

**Value**—Integer in the range -2147483648–2147483647

< number-of-provisioning-attempt> —Number of provisioning attempt

**Value**—Integer in the range -2147483648–2147483647

< number-of-provisioning-attempt-failed> —Number of provisioning attempt failed

**Value**—Integer in the range -2147483648–2147483647

< number-of-sap> —Number of SAP

**Value**—Integer in the range -2147483648–2147483647

< router-ip> —Device IP

**Value**—Text

< router-name> —Device name

**Value**—Text

< router-type> —Device type

**Value**—Text

< router-version> —Device version

**Value**—Text

< start-time> —Start time

**Value**—Text

< state-synchronizer>

[state-synchronizer](#)

< transaction-manager>

[transaction-manager](#)

< transport-router> —TransportRouter

**Value**—Text

## Style

### brief

< router-name>

### detail

< class-name>  
 < job-queue-size>  
 < local-ip>  
 < number-of-notifications>  
 < number-of-pap>  
 < number-of-processed-added>  
 < number-of-processed-changed>  
 < number-of-processed-deleted>  
 < number-of-provisioning-attempt>  
 < number-of-provisioning-attempt-failed>  
 < number-of-sap>  
 < router-ip>  
 < router-name>  
 < router-type>  
 < router-version>

< start-time>  
< state-synchronizer>  
< transaction-manager>  
< transport-router>



# <junos-service-activation-point>

## Usage

```
< junos-service-activation-point xmlns= "http://xml.juniper.net/sdx/junos-service-activation-point">
  < interface-classification-context xmlns= "http://xml.juniper.net/sdx/interface-classification-context"> ... </interface-classification-context>
  < provisioning-set xmlns= "http://xml.juniper.net/sdx/provisioning-set"> ... </provisioning-set>
  < router-name> router-name </router-name>
  < user-session xmlns= "http://xml.juniper.net/sdx/user-session"> ... </user-session>
< /junos-service-activation-point>
```

## Contents

< interface-classification-context>

[interface-classification-context](#)

< provisioning-set>

[provisioning-set](#)

< router-name> —Device name

**Value**—Text

< user-session>

Multiple tag: can occur zero or more times.

[user-session](#)

## Style

### brief

< interface-classification-context>

### detail

```
< interface-classification-context>
< provisioning-set>
< user-session>
```

## <license-client-statistics>

### Usage

```
< license-client-statistics xmlns= "http://xml.juniper.net/sdx/license-client-statistics">
  < application-type> application-type < /application-type>
  < id> id < /id>
  < last-request-time> last-request-time < /last-request-time>
  < lease-expire-time> lease-expire-time < /lease-expire-time>
  < licenses> licenses < /licenses>
  < requests> requests < /requests>
  < requests-denied> requests-denied < /requests-denied>
  < server> server < /server>
  < status> status < /status>
< /license-client-statistics>
```

### Contents

< application-type> —Application type

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< id> —Application ID

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< last-request-time> —Last request time

**Value**—Text

< lease-expire-time> —Lease expire time

**Value**—Text

< licenses> —Licenses

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< requests> —Number of requests

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< requests-denied> —Number of request denied

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< server> —Server

< status> —Status

## <license-manager>

### Usage

```
< license-manager xmlns= "http://xml.juniper.net/sdx/license-manager">
  < expiry-date> expiry-date </expiry-date>
  < lic-mode-str> lic-mode-str </lic-mode-str>
  < license-server-state> license-server-state </license-server-state>
  < num-lisenced-service-session> num-lisenced-service-session </num-lisenced-service-session>
  < number-current-users> number-current-users </number-current-users>
  < number-licensed-users> number-licensed-users </number-licensed-users>
</license-manager>
```

### Contents

< expiry-date> —Expiry

**Value**—Text

< lic-mode-str> —Mode

**Value**—Text

< license-server-state> —License server is available

**Value**—Boolean

< num-lisenced-service-session> —Number of licensed service session

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< number-current-users> —Number of current users

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< number-licensed-users> —Number of licensed users

**Value**—Integer in the range -9223372036854775808–9223372036854775807

### Style

**client**

< lic-mode-str>  
< license-server-state>  
< num-lisenced-service-session>

**obsolete**

< lic-mode-str>

**pilot**

< expiry-date>  
< lic-mode-str>  
< number-current-users>  
< number-licensed-users>

## <licenses>

### Usage

```
< licenses xmlns= "http://xml.juniper.net/sdx/licenses">  
  < SAE-license xmlns= "http://xml.juniper.net/sdx/SAE-license"> ... < /SAE-license>  
< /licenses>
```

### Contents

< SAE-license>

Multiple tag: can occur zero or more times.

[SAE-license](#)

### Style

#### **brief**

< SAE-license>

#### **detail**

< SAE-license>

## <mac-cache-data>

### Usage

```
< mac-cache-data xmlns= "http://xml.juniper.net/sdx/mac-cache-data">
  < auth-profile xmlns= "http://xml.juniper.net/sdx/auth-profile"> ... </auth-profile>
  < intf-name> intf-name </intf-name>
  < mac-address> mac-address </mac-address>
  < persistent-login-profile xmlns= "http://xml.juniper.net/sdx/persistent-login-profile"> ... </persistent-login-profile>
  < vr-name> vr-name </vr-name>
< /mac-cache-data>
```

### Contents

< auth-profile>

[auth-profile](#)

< intf-name> —Interface name

**Value**—Text

< mac-address> —Mac address

**Value**—Text

< persistent-login-profile>

[persistent-login-profile](#)

< vr-name> —Vr name

**Value**—Text

### Style

#### brief

< mac-address>

#### detail

< auth-profile>  
< intf-name>  
< mac-address>  
< persistent-login-profile>  
< vr-name>



## <message-queue>

### Usage

```
< message-queue xmlns= "http://xml.juniper.net/sdx/message-queue">
  < number-replicated-messages> number-replicated-messages < /number-replicated-messages>
  < size> size < /size>
< /message-queue>
```

### Contents

< number-replicated-messages> —Number of replicated messages

**Value**—Integer in the range -2147483648–2147483647

< size> —Number of messages in send queue

**Value**—Integer in the range -2147483648–2147483647

## <pcmm-router-driver>

### Usage

```
< pcmm-router-driver xmlns= "http://xml.juniper.net/sdx/pcmm-router-driver">
  < cmts-name> cmts-name </cmts-name>
  < local-ip> local-ip </local-ip>
  < number-of-pap> number-of-pap </number-of-pap>
  < number-of-sap> number-of-sap </number-of-sap>
  < pdp-group-name> pdp-group-name </pdp-group-name>
  < pdp-ip> pdp-ip </pdp-ip>
  < router-ip> router-ip </router-ip>
  < router-type> router-type </router-type>
  < router-version> router-version </router-version>
  < start-time> start-time </start-time>
  < transport-router> transport-router </transport-router>
< /pcmm-router-driver>
```

### Contents

< cmts-name> —CMTS name

**Value**—Text

< local-ip> —Local IP

**Value**—Text

< number-of-pap> —Number of PAP

**Value**—Integer in the range -2147483648–2147483647

< number-of-sap> —Number of SAP

**Value**—Integer in the range -2147483648–2147483647

< pdp-group-name> —PDP Group name

**Value**—Text

< pdp-ip> —Policy Decision Point IP

**Value**—Text

< router-ip> —Device IP

**Value**—Text

< router-type> —Device type

**Value**—Text

< router-version> —Device version

**Value**—Text

< start-time> —Start time

**Value**—Text

< transport-router> —TransportRouter

**Value**—Text

## Style

### brief

< pdp-group-name>

### detail

< cmts-name>  
 < local-ip>  
 < number-of-pap>  
 < number-of-sap>  
 < pdp-group-name>  
 < pdp-ip>  
 < router-ip>  
 < router-type>  
 < router-version>  
 < start-time>  
 < transport-router>

## <pcmm-SAP>

### Usage

```
< pcmm-SAP xmlns= "http://xml.juniper.net/sdx/pcmm-SAP">
  < interface-classification-context xmlns= "http://xml.juniper.net/sdx/interface-classification-context"> ... </interface-classification-context>
  < provisioning-set xmlns= "http://xml.juniper.net/sdx/provisioning-set"> ... </provisioning-set>
  < router-name> router-name </router-name>
  < user-session xmlns= "http://xml.juniper.net/sdx/user-session"> ... </user-session>
< /pcmm-SAP>
```

### Contents

< interface-classification-context>

[interface-classification-context](#)

< provisioning-set>

[provisioning-set](#)

< router-name> —Device name

**Value**—Text

< user-session>

Multiple tag: can occur zero or more times.

[user-session](#)

### Style

#### brief

< interface-classification-context>

#### detail

```
< interface-classification-context>
< provisioning-set>
< user-session>
```

## <persistent-login-profile>

### Usage

```
< persistent-login-profile xmlns= "http://xml.juniper.net/sdx/persistent-login-profile">
  < auto-subscriptions> auto-subscriptions < /auto-subscriptions>
  < descr> descr < /descr>
  < load-subscriptions> load-subscriptions < /load-subscriptions>
  < login-name> login-name < /login-name>
  < user-dn> user-dn < /user-dn>
  < user-password> user-password < /user-password>
< /persistent-login-profile>
```

### Contents

< auto-subscriptions> —AutoSubscriptions

**Value**—Text

< descr> —Description

**Value**—Text

< load-subscriptions> —LoadSubscriptions

**Value**—Text

< login-name> —User login name

**Value**—Text

< user-dn> —User DN

**Value**—Text

< user-password> —User password

**Value**—Text

## <policy-management-statistics>

### Usage

```
< policy-management-statistics xmlns= "http://xml.juniper.net/sdx/policy-management-statistics">
  < average-time-interface-classifier-modifications> average-time-interface-classifier-modifications < /average-time-interface-
classifier-modifications>
  < average-time-policy-group-modifications> average-time-policy-group-modifications < /average-time-policy-group-
modifications>
  < number-default-policy-decisions> number-default-policy-decisions < /number-default-policy-decisions>
  < number-errors> number-errors < /number-errors>
  < number-interface-classifier-modifications> number-interface-classifier-modifications < /number-interface-classifier-
modifications>
  < number-policy-group-modifications> number-policy-group-modifications < /number-policy-group-modifications>
  < number-policy-groups-loaded> number-policy-groups-loaded < /number-policy-groups-loaded>
  < number-service-policy-decisions> number-service-policy-decisions < /number-service-policy-decisions>
  < pdp-label> pdp-label < /pdp-label>
  < pe-label> pe-label < /pe-label>
  < sor-label> sor-label < /sor-label>
< /policy-management-statistics>
```

### Contents

< average-time-interface-classifier-modifications> —Average time for processing interface classifier modification

**Value**—Integer in the range -2147483648–2147483647

< average-time-policy-group-modifications> —Average time for processing policy group modification

**Value**—Integer in the range -2147483648–2147483647

< number-default-policy-decisions> —Total number of default policy decisions

**Value**—Integer in the range -2147483648–2147483647

< number-errors> —Total number of errors

**Value**—Integer in the range -2147483648–2147483647

< number-interface-classifier-modifications> —Total number of interface classifier modifications

**Value**—Integer in the range -2147483648–2147483647

< number-policy-group-modifications> —Total number of policy group modifications

**Value**—Integer in the range -2147483648–2147483647

< number-policy-groups-loaded> —Current total number of policy groups loaded

**Value**—Integer in the range -2147483648–2147483647

< number-service-policy-decisions> —Total number of service policy decisions

**Value**—Integer in the range -2147483648–2147483647

< pdp-label> —Policy Management Type

< pe-label> —Policy Management Type

< sor-label> —Policy Management Type

## <policy-shared-ctx>

### Usage

```
< policy-shared-ctx xmlns= "http://xml.juniper.net/sdx/policy-shared-ctx">
  < num-provisioning-objects-left-to-collect> num-provisioning-objects-left-to-collect < /num-provisioning-objects-left-to-collect>
  < session-factory xmlns= "http://xml.juniper.net/sdx/session-factory"> ... < /session-factory>
  < total-num-provisioning-objects-to-collect> total-num-provisioning-objects-to-collect < /total-num-provisioning-objects-to-collect>
< /policy-shared-ctx>
```

### Contents

< num-provisioning-objects-left-to-collect> —Number of provisioning objects left to collect

**Value**—Integer in the range -2147483648–2147483647

< session-factory> —SessionFactory

[session-factory](#)

< total-num-provisioning-objects-to-collect> —Total number of provisioning objects to collect

**Value**—Integer in the range -2147483648–2147483647



## <primary-hotstandby-info>

### Usage

```
< primary-hotstandby-info xmlns= "http://xml.juniper.net/sdx/primary-hotstandby-info">
  < connection-time> connection-time < /connection-time>
  < replicator xmlns= "http://xml.juniper.net/sdx/replicator"> ... < /replicator>
  < secondary-address> secondary-address < /secondary-address>
  < secondary-state> secondary-state < /secondary-state>
< /primary-hotstandby-info>
```

### Contents

< connection-time> —Hot-standby connection time

**Value**—Text

< replicator>

[replicator](#)

< secondary-address> —Hot-standby secondary address

< secondary-state> —Hot-standby secondary state

## <process-statistics>

### Usage

```
< process-statistics xmlns= "http://xml.juniper.net/sdx/process-statistics">
  < heap> heap </heap>
  < heap-limit> heap-limit </heap-limit>
  < number-threads> number-threads </number-threads>
  < up-time> up-time </up-time>
< /process-statistics>
```

### Contents

< heap> —Heap in use

< heap-limit> —Heap limit

< number-threads> —Threads

**Value**—Integer in the range -2147483648-2147483647

< up-time> —Up time

## <radius-client-statistics>

### Usage

```
< radius-client-statistics xmlns= "http://xml.juniper.net/sdx/radius-client-statistics">
  < acc-client-bad-authenticators> acc-client-bad-authenticators < /acc-client-bad-authenticators>
  < acc-client-malformed-responses> acc-client-malformed-responses < /acc-client-malformed-responses>
  < acc-client-packets-dropped> acc-client-packets-dropped < /acc-client-packets-dropped>
  < acc-client-pending-requests> acc-client-pending-requests < /acc-client-pending-requests>
  < acc-client-requests> acc-client-requests < /acc-client-requests>
  < acc-client-responses> acc-client-responses < /acc-client-responses>
  < acc-client-retransmissions> acc-client-retransmissions < /acc-client-retransmissions>
  < acc-client-round-trip-time> acc-client-round-trip-time < /acc-client-round-trip-time>
  < acc-client-timeouts> acc-client-timeouts < /acc-client-timeouts>
  < acc-client-unknown-types> acc-client-unknown-types < /acc-client-unknown-types>
  < acc-ip-and-port> acc-ip-and-port < /acc-ip-and-port>
  < auth-client-access-accepts> auth-client-access-accepts < /auth-client-access-accepts>
  < auth-client-access-challenges> auth-client-access-challenges < /auth-client-access-challenges>
  < auth-client-access-rejects> auth-client-access-rejects < /auth-client-access-rejects>
  < auth-client-access-requests> auth-client-access-requests < /auth-client-access-requests>
  < auth-client-access-retransmissions> auth-client-access-retransmissions < /auth-client-access-retransmissions>
  < auth-client-bad-authenticators> auth-client-bad-authenticators < /auth-client-bad-authenticators>
  < auth-client-malformed-access-responses> auth-client-malformed-access-responses < /auth-client-malformed-access-responses>
  < auth-client-packets-dropped> auth-client-packets-dropped < /auth-client-packets-dropped>
  < auth-client-pending-requests> auth-client-pending-requests < /auth-client-pending-requests>
  < auth-client-round-trip-time> auth-client-round-trip-time < /auth-client-round-trip-time>
  < auth-client-timeouts> auth-client-timeouts < /auth-client-timeouts>
  < auth-client-unknown-types> auth-client-unknown-types < /auth-client-unknown-types>
  < auth-ip-and-port> auth-ip-and-port < /auth-ip-and-port>
< /radius-client-statistics>
```

### Contents

< acc-client-bad-authenticators> —Bad authenticator responses

< acc-client-malformed-responses> —Malformed responses

< acc-client-packets-dropped> —Dropped responses

< acc-client-pending-requests> —Pending requests

< acc-client-requests> —Requests

< acc-client-responses> —Responses

< acc-client-retransmissions> —Retransmissions

< acc-client-round-trip-time> —Round trip time (rolling average)

< acc-client-timeouts> —Timeouts

< acc-client-unknown-types> —Unknown type responses

< acc-ip-and-port> —Server IP and port

< auth-client-access-accepts> —Accept responses

< auth-client-access-challenges> —Challenge responses

< auth-client-access-rejects> —Reject responses

< auth-client-access-requests> —Access requests

< auth-client-access-retransmissions> —Retransmissions

< auth-client-bad-authenticators> —Bad authenticator responses

< auth-client-malformed-access-responses> —Malformed responses

< auth-client-packets-dropped> —Dropped responses

< auth-client-pending-requests> —Pending requests

< auth-client-round-trip-time> —Round trip time (rolling average)

< auth-client-timeouts> —Timeouts

< auth-client-unknown-types> —Unknown type responses

< auth-ip-and-port> —Server IP and port

## Style

### brief

< acc-ip-and-port>  
< auth-ip-and-port>

### detail

< acc-client-bad-authenticators>  
< acc-client-malformed-responses>  
< acc-client-packets-dropped>  
< acc-client-pending-requests>  
< acc-client-requests>  
< acc-client-responses>  
< acc-client-retransmissions>  
< acc-client-round-trip-time>  
< acc-client-timeouts>  
< acc-client-unknown-types>  
< acc-ip-and-port>  
< auth-client-access-accepts>  
< auth-client-access-challenges>  
< auth-client-access-rejects>  
< auth-client-access-requests>  
< auth-client-access-retransmissions>  
< auth-client-bad-authenticators>  
< auth-client-malformed-access-responses>  
< auth-client-packets-dropped>  
< auth-client-pending-requests>  
< auth-client-round-trip-time>  
< auth-client-timeouts>  
< auth-client-unknown-types>  
< auth-ip-and-port>

## <radius-statistics>

### Usage

```
< radius-statistics xmlns= "http://xml.juniper.net/sdx/radius-statistics">
  < radius-acc-client-invalid-server-addresses> radius-acc-client-invalid-server-addresses < /radius-acc-client-invalid-server-addresses>
  < radius-auth-client-invalid-server-addresses> radius-auth-client-invalid-server-addresses < /radius-auth-client-invalid-server-addresses>
  < radius-client-identifier> radius-client-identifier < /radius-client-identifier>
< /radius-statistics>
```

### Contents

< radius-acc-client-invalid-server-addresses> —Accounting ACKs from unrecognized IP

**Value**—Integer in the range -2147483648–2147483647

< radius-auth-client-invalid-server-addresses> —Authentication ACKs from unrecognized IP

**Value**—Integer in the range -2147483648–2147483647

< radius-client-identifier> —Radius client ID

## <registrations>

### Usage

```
< registrations xmlns= "http://xml.juniper.net/sdx/registrations">  
  < mac-cache-data xmlns= "http://xml.juniper.net/sdx/mac-cache-data"> ... < /mac-cache-data>  
< /registrations>
```

### Contents

< mac-cache-data>

Multiple tag: can occur zero or more times.  
[mac-cache-data](#)

### Style

#### **brief**

< mac-cache-data>

#### **detail**

< mac-cache-data>

## <replicator>

### Usage

```
< replicator xmlns= "http://xml.juniper.net/sdx/replicator">  
  < is-reliable-replication> is-reliable-replication </is-reliable-replication>  
  < message-queue xmlns= "http://xml.juniper.net/sdx/message-queue"> ... </message-queue>  
< /replicator>
```

### Contents

< is-reliable-replication> —Reliable replication mode

**Value**—Boolean

< message-queue>

[message-queue](#)



## <router-common-statistics>

### Usage

```
< router-common-statistics xmlns= "http://xml.juniper.net/sdx/router-common-statistics">
  < number-close-requests> number-close-requests < /number-close-requests>
  < number-connections-accepted> number-connections-accepted < /number-connections-accepted>
  < number-current-connections> number-current-connections < /number-current-connections>
  < number-open-requests> number-open-requests < /number-open-requests>
  < server-address> server-address < /server-address>
  < server-port> server-port < /server-port>
  < time-since-last-redirect> time-since-last-redirect < /time-since-last-redirect>
  < type-str> type-str < /type-str>
< /router-common-statistics>
```

### Contents

< number-close-requests> —Number of close requests

**Value**—Integer in the range -2147483648–2147483647

< number-connections-accepted> —Number of connections accepted

**Value**—Integer in the range -2147483648–2147483647

< number-current-connections> —Number of current connections

**Value**—Integer in the range -2147483648–2147483647

< number-open-requests> —Number of open requests

**Value**—Integer in the range -2147483648–2147483647

< server-address> —Server address

< server-port> —Server port

**Value**—Integer in the range -2147483648–2147483647

< time-since-last-redirect> —Time since last redirect

**Value**—Integer in the range -2147483648–2147483647

< type-str> —Driver type

## <router-driver>

### Usage

```
< router-driver xmlns= "http://xml.juniper.net/sdx/router-driver">
  < AAA-router-driver xmlns= "http://xml.juniper.net/sdx/AAA-router-driver"> ... </AAA-router-driver>
  < ISE-router-driver xmlns= "http://xml.juniper.net/sdx/ISE-router-driver"> ... </ISE-router-driver>
  < junos-e-base-driver xmlns= "http://xml.juniper.net/sdx/junos-e-base-driver"> ... </junos-e-base-driver>
  < junos-router-driver xmlns= "http://xml.juniper.net/sdx/junos-router-driver"> ... </junos-router-driver>
  < pcmm-router-driver xmlns= "http://xml.juniper.net/sdx/pcmm-router-driver"> ... </pcmm-router-driver>
  < router-name> router-name </router-name>
  < router-type> router-type </router-type>
  < sim-router-driver xmlns= "http://xml.juniper.net/sdx/sim-router-driver"> ... </sim-router-driver>
< /router-driver>
```

### Contents

< AAA-router-driver>

[AAA-router-driver](#)

< ISE-router-driver>

[ISE-router-driver](#)

< junos-e-base-driver>

[junos-e-base-driver](#)

< junos-router-driver>

[junos-router-driver](#)

< pcmm-router-driver>

[pcmm-router-driver](#)

< router-name> —Device name

**Value**—Text

< router-type> —Device type

**Value**—Text

< sim-router-driver>

[sim-router-driver](#)

## Style

### brief

< router-name>

< router-type>

### detail

< AAA-router-driver>

< ISE-router-driver>

< junos-e-base-driver>

< junos-router-driver>

< pcmm-router-driver>

< sim-router-driver>

## <router-statistics>

### Usage

```
< router-statistics xmlns= "http://xml.juniper.net/sdx/router-statistics">
  < add-notification-handle-time> add-notification-handle-time < /add-notification-handle-time>
  < chg-notification-handle-time> chg-notification-handle-time < /chg-notification-handle-time>
  < del-notification-handle-time> del-notification-handle-time < /del-notification-handle-time>
  < fail-over-ip> fail-over-ip < /fail-over-ip>
  < fail-over-port> fail-over-port < /fail-over-port>
  < job-queue-age> job-queue-age < /job-queue-age>
  < job-queue-time> job-queue-time < /job-queue-time>
  < msg-handle-time> msg-handle-time < /msg-handle-time>
  < name> name < /name>
  < number-add-notification-recv> number-add-notification-recv < /number-add-notification-recv>
  < number-chg-notification-recv> number-chg-notification-recv < /number-chg-notification-recv>
  < number-del-notification-recv> number-del-notification-recv < /number-del-notification-recv>
  < number-jobs-added> number-jobs-added < /number-jobs-added>
  < number-jobs-removed> number-jobs-removed < /number-jobs-removed>
  < number-managed-interfaces> number-managed-interfaces < /number-managed-interfaces>
  < number-msg-errors> number-msg-errors < /number-msg-errors>
  < number-msg-sent> number-msg-sent < /number-msg-sent>
  < number-msg-timeouts> number-msg-timeouts < /number-msg-timeouts>
  < number-user-sessions-established> number-user-sessions-established < /number-user-sessions-established>
  < number-user-sessions-removed> number-user-sessions-removed < /number-user-sessions-removed>
  < router-type> router-type < /router-type>
  < up-time> up-time < /up-time>
  < use-failover-server> use-failover-server < /use-failover-server>
< /router-statistics>
```

### Contents

< add-notification-handle-time> —Add notification handle time

**Value**—Integer in the range -2147483648–2147483647

< chg-notification-handle-time> —Change notification handle time

**Value**—Integer in the range -2147483648–2147483647

< del-notification-handle-time> —Delete notification handle time

**Value**—Integer in the range -2147483648–2147483647

< fail-over-ip> —Failover IP

< fail-over-port> —Failover port

**Value**—Integer in the range -2147483648–2147483647

< job-queue-age> —Job queue age

**Value**—Integer in the range -2147483648–2147483647

< job-queue-time> —Job queue time

**Value**—Integer in the range -2147483648–2147483647

< msg-handle-time> —Handle message time

**Value**—Integer in the range -2147483648–2147483647

< name> —Client ID

< number-add-notification-recv> —Number of add notifications

**Value**—Integer in the range -2147483648–2147483647

< number-chg-notification-recv> —Number of change notifications

**Value**—Integer in the range -2147483648–2147483647

< number-del-notification-recv> —Number of delete notifications

**Value**—Integer in the range -2147483648–2147483647

< number-jobs-added> —Number of added jobs

**Value**—Integer in the range -2147483648–2147483647

< number-jobs-removed> —Number of removed jobs

**Value**—Integer in the range -2147483648–2147483647

< number-managed-interfaces> —Number of managed interfaces

**Value**—Integer in the range -2147483648–2147483647

< number-msg-errors> —Number of message errors

**Value**—Integer in the range -2147483648–2147483647

< number-msg-sent> —Number message send

**Value**—Integer in the range -2147483648–2147483647

< number-msg-timeouts> —Number of message timeouts

**Value**—Integer in the range -2147483648–2147483647

< number-user-sessions-established> —Number of user session established

**Value**—Integer in the range -2147483648–2147483647

< number-user-sessions-removed> —Number of user session removed

**Value**—Integer in the range -2147483648–2147483647

< router-type> —Device type

< up-time> —Up time

**Value**—Integer in the range -2147483648–2147483647

< use-failover-server> —Using failover server

**Value**—Boolean

Style

**brief**

< name>

## detail

< add-notification-handle-time>  
< chg-notification-handle-time>  
< del-notification-handle-time>  
< fail-over-ip>  
< fail-over-port>  
< job-queue-age>  
< job-queue-time>  
< msg-handle-time>  
< name>  
< number-add-notification-recv>  
< number-chg-notification-recv>  
< number-del-notification-recv>  
< number-jobs-added>  
< number-jobs-removed>  
< number-managed-interfaces>  
< number-msg-errors>  
< number-msg-sent>  
< number-msg-timeouts>  
< number-user-sessions-established>  
< number-user-sessions-removed>  
< router-type>  
< up-time>  
< use-failover-server>



## <route<rs>

### Usage

```
< route<rs xmlns= "http://xml.juniper.net/sdx/route<rs">
  < router-driver xmlns= "http://xml.juniper.net/sdx/router-driver"> ... < /router-driver>
< /route<rs>
```

### Contents

< router-driver>

Multiple tag: can occur zero or more times.  
[router-driver](#)

### Style

#### brief

< router-driver>

#### detail

< router-driver>

## <SAE-license>

### Usage

```
< SAE-license xmlns= "http://xml.juniper.net/sdx/SAE-license">
  < allocate-threshold> allocate-threshold < /allocate-threshold>
  < creation-time> creation-time < /creation-time>
  < license-limitation> license-limitation < /license-limitation>
  < license-type> license-type < /license-type>
  < release-threshold> release-threshold < /release-threshold>
  < time-next-renew> time-next-renew < /time-next-renew>
  < vr-name> vr-name < /vr-name>
< /SAE-license>
```

### Contents

< allocate-threshold> —Allocate threshold

**Value**—Integer in the range -2147483648–2147483647

< creation-time> —Time stamp of last update

**Value**—Text

< license-limitation> —Granted amount

**Value**—Integer in the range -2147483648–2147483647

< license-type> —License type

**Value**—Text

< release-threshold> —Release threshold

**Value**—Integer in the range -2147483648–2147483647

< time-next-renew> —Time of next renew

**Value**—Text

< vr-name> —Device name

**Value**—Text

**Style**

**brief**

< vr-name>

**detail**

- < allocate-threshold>
- < creation-time>
- < license-limitation>
- < license-type>
- < release-threshold>
- < time-next-renew>
- < vr-name>

## <secondary-hotstandby-info>

### Usage

```
< secondary-hotstandby-info xmlns= "http://xml.juniper.net/sdx/secondary-hotstandby-info">  
  < initial-state-dump> initial-state-dump < /initial-state-dump>  
< /secondary-hotstandby-info>
```

### Contents

< initial-state-dump> —Initial state dump status

## <service-activation-point>

### Usage

```
< service-activation-point xmlns= "http://xml.juniper.net/sdx/service-activation-point">
  < interface-name> interface-name < /interface-name>
  < junos-e-sap xmlns= "http://xml.juniper.net/sdx/junos-e-sap"> ... < /junos-e-sap>
  < junos-service-activation-point xmlns= "http://xml.juniper.net/sdx/junos-service-activation-point"> ... < /junos-service-activation-point>
  < pcmm-SAP xmlns= "http://xml.juniper.net/sdx/pcmm-SAP"> ... < /pcmm-SAP>
  < router-name> router-name < /router-name>
  < sim-SAP xmlns= "http://xml.juniper.net/sdx/sim-SAP"> ... < /sim-SAP>
< /service-activation-point>
```

### Contents

< interface-name> —Interface name

**Value**—Text

< junos-e-sap>

[junos-e-sap](#)

< junos-service-activation-point>

[junos-service-activation-point](#)

< pcmm-SAP>

[pcmm-SAP](#)

< router-name> —Device name

**Value**—Text

< sim-SAP>

[sim-SAP](#)

## Style

### brief

< interface-name>  
< router-name>

### detail

< junos-e-sap>  
< junos-service-activation-point>  
< pcmm-SAP>  
< sim-SAP>

## <service-profile>

### Usage

```
< service-profile xmlns= "http://xml.juniper.net/sdx/service-profile">  
  < attributes> attributes </attributes>  
  < subscription-name> subscription-name </subscription-name>  
< /service-profile>
```

### Contents

< attributes> —Subscription LDAP attributes

**Value**—Text

< subscription-name> —Subscription name

**Value**—Text

## <service-session-attributes>

### Usage

```
< service-session-attributes xmlns= "http://xml.juniper.net/sdx/service-session-attributes">
  < downstream-bandwidth> downstream-bandwidth < /downstream-bandwidth>
  < session-tag> session-tag < /session-tag>
  < session-timeout> session-timeout < /session-timeout>
  < session-volume-quota> session-volume-quota < /session-volume-quota>
  < subscription-username> subscription-username < /subscription-username>
  < substitutions> substitutions < /substitutions>
  < upstream-bandwidth> upstream-bandwidth < /upstream-bandwidth>
  < version> version < /version>
< /service-session-attributes>
```

### Contents

< downstream-bandwidth> —Downstream Bandwidth

**Value**—Integer in the range -2147483648–2147483647

< session-tag> —Session Tag

**Value**—Text

< session-timeout> —Session Timeout

**Value**—Integer in the range -2147483648–2147483647

< session-volume-quota> —Session volume quota

**Value**—Text

< subscription-username> —Subscription username

**Value**—Text

< substitutions> —Substitutions

**Value**—Text



< upstream-bandwidth> —Upstream Bandwidth

**Value**—Integer in the range -2147483648–2147483647

< version> —Attributes Version

**Value**—Integer in the range -2147483648–2147483647

## <service-session>

### Usage

```
< service-session xmlns= "http://xml.juniper.net/sdx/service-session">
  < accounting-data xmlns= "http://xml.juniper.net/sdx/accounting-data"> ... </accounting-data>
  < date-start-time> date-start-time </date-start-time>
  < interim-time> interim-time </interim-time>
  < properties> properties </properties>
  < provisioning-set xmlns= "http://xml.juniper.net/sdx/provisioning-set"> ... </provisioning-set>
  < radius-session-id> radius-session-id </radius-session-id>
  < reply-messages> reply-messages </reply-messages>
  < service-name> service-name </service-name>
  < service-session-attributes xmlns= "http://xml.juniper.net/sdx/service-session-attributes"> ... </service-session-attributes>
  < session-name> session-name </session-name>
  < subscription-name> subscription-name </subscription-name>
  < version> version </version>
< /service-session>
```

### Contents

< accounting-data> —Accounting info

[accounting-data](#)

< date-start-time> —Start time

< interim-time> —Interim Time

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< properties> —Session Properties

**Value**—Text

< provisioning-set>

[provisioning-set](#)

< radius-session-id> —RADIUS session ID

**Value**—Text

< reply-messages> —Reply Messages

**Value**—Text

< service-name> —Service name

**Value**—Text

< service-session-attributes> —Service Session Attributes

[service-session-attributes](#)

< session-name> —Session Name

**Value**—Text

< subscription-name> —Subscription Name

**Value**—Text

< version> —Service Session Version

**Value**—Integer in the range -2147483648-2147483647

## <service>

### Usage

```
< service xmlns= "http://xml.juniper.net/sdx/service">
  < activation-errors> activation-errors < /activation-errors>
  < activations> activations < /activations>
  < attributes> attributes < /attributes>
  < deactivations> deactivations < /deactivations>
  < name> name < /name>
  < num-currently-active> num-currently-active < /num-currently-active>
< /service>
```

### Contents

< activation-errors> —Number of activation errors

**Value**—Integer in the range -2147483648–2147483647

< activations> —Number of activations

**Value**—Integer in the range -2147483648–2147483647

< attributes> —Service attributes

**Value**—Text

< deactivations> —Number of deactivations

**Value**—Integer in the range -2147483648–2147483647

< name> —service-name

**Value**—Text

< num-currently-active> —Number of currently active sessions

**Value**—Integer in the range -2147483648–2147483647

### Style

**brief**

< name>  
< num-currently-active>

**detail**

< activation-errors>  
< activations>  
< attributes>  
< deactivations>  
< name>  
< num-currently-active>

## <services>

### Usage

```
< services xmlns= "http://xml.juniper.net/sdx/services">
  < service xmlns= "http://xml.juniper.net/sdx/service"> ... < /service>
< /services>
```

### Contents

< service>

Multiple tag: can occur zero or more times.  
[service](#)

### Style

#### brief

< service>

#### detail

< service>

## <session-factory>

### Usage

```
< session-factory xmlns= "http://xml.juniper.net/sdx/session-factory">
  < background-restoration-end-time> background-restoration-end-time < /background-restoration-end-time>
  < background-restoration-start-time> background-restoration-start-time < /background-restoration-start-time>
  < num-interface-sessions> num-interface-sessions < /num-interface-sessions>
  < num-invalid-interface-sessions> num-invalid-interface-sessions < /num-invalid-interface-sessions>
  < num-invalid-service-sessions> num-invalid-service-sessions < /num-invalid-service-sessions>
  < num-invalid-user-sessions> num-invalid-user-sessions < /num-invalid-user-sessions>
  < num-service-sessions> num-service-sessions < /num-service-sessions>
  < num-user-sessions> num-user-sessions < /num-user-sessions>
  < num-user-sessions-restored-background> num-user-sessions-restored-background < /num-user-sessions-restored-
background>
  < router-name> router-name < /router-name>
< /session-factory>
```

### Contents

< background-restoration-end-time> —Background restoration end time

**Value**—Text

< background-restoration-start-time> —Background restoration start time

**Value**—Text

< num-interface-sessions> —Number recovered interface sessions

**Value**—Integer in the range -2147483648–2147483647

< num-invalid-interface-sessions> —Number invalid interface sessions

**Value**—Integer in the range -2147483648–2147483647

< num-invalid-service-sessions> —Number invalid service sessions

**Value**—Integer in the range -2147483648–2147483647

< num-invalid-user-sessions> —Number invalid subscriber sessions

**Value**—Integer in the range -2147483648–2147483647

< num-service-sessions> —Number recovered service sessions

**Value**—Integer in the range -2147483648–2147483647

< num-user-sessions> —Number recovered subscriber sessions

**Value**—Integer in the range -2147483648–2147483647

< num-user-sessions-restored-background> —Number subscriber sessions restored in background

**Value**—Integer in the range -2147483648–2147483647

< router-name> —Device name

**Value**—Text



## <sessions-statistics>

### Usage

```
< sessions-statistics xmlns= "http://xml.juniper.net/sdx/sessions-statistics">
  < number-logins> number-logins < /number-logins>
  < number-logouts> number-logouts < /number-logouts>
  < number-service-activations> number-service-activations < /number-service-activations>
  < number-service-deactivations> number-service-deactivations < /number-service-deactivations>
  < number-service-idle-timeout> number-service-idle-timeout < /number-service-idle-timeout>
  < number-service-session-timeout> number-service-session-timeout < /number-service-session-timeout>
  < number-service-sessions> number-service-sessions < /number-service-sessions>
  < number-user-sessions> number-user-sessions < /number-user-sessions>
< /sessions-statistics>
```

### Contents

< number-logins> —Logins (includes sync. and static IP portal logins)

**Value**—Integer in the range -2147483648–2147483647

< number-logouts> —Logouts

**Value**—Integer in the range -2147483648–2147483647

< number-service-activations> —Service sessions started

**Value**—Integer in the range -2147483648–2147483647

< number-service-deactivations> —Service sessions stopped

**Value**—Integer in the range -2147483648–2147483647

< number-service-idle-timeout> —Service session idle timeouts

**Value**—Integer in the range -2147483648–2147483647

< number-service-session-timeout> —Service session timeouts

**Value**—Integer in the range -2147483648–2147483647

< number-service-sessions> —Current service sessions

**Value**—Integer in the range -2147483648–2147483647

< number-user-sessions> —Current user sessions

**Value**—Integer in the range -2147483648–2147483647

## <sim-router-driver>

### Usage

```
< sim-router-driver xmlns= "http://xml.juniper.net/sdx/sim-router-driver">
  < local-ip> local-ip < /local-ip>
  < number-of-sap> number-of-sap < /number-of-sap>
  < router-ip> router-ip < /router-ip>
  < router-name> router-name < /router-name>
  < router-type> router-type < /router-type>
  < router-version> router-version < /router-version>
  < session-factory xmlns= "http://xml.juniper.net/sdx/session-factory"> ... < /session-factory>
  < transport-router> transport-router < /transport-router>
< /sim-router-driver>
```

### Contents

< local-ip> —Local IP

**Value**—Text

< number-of-sap> —Number of SAP

**Value**—Integer in the range -2147483648–2147483647

< router-ip> —Device IP

**Value**—Text

< router-name> —Device name

**Value**—Text

< router-type> —Device type

**Value**—Text

< router-version> —Device version

**Value**—Text

< session-factory> —SessionFactory

[session-factory](#)

< transport-router> —TransportRouter

**Value**—Text

## Style

### brief

< router-name>

### detail

< local-ip>  
< number-of-sap>  
< router-ip>  
< router-name>  
< router-type>  
< router-version>  
< session-factory>  
< transport-router>

## <sim-SAP>

### Usage

```
< sim-SAP xmlns= "http://xml.juniper.net/sdx/sim-SAP">
  < interface-classification-context xmlns= "http://xml.juniper.net/sdx/interface-classification-context"> ... </interface-
classification-context>
  < provisioning-set xmlns= "http://xml.juniper.net/sdx/provisioning-set"> ... </provisioning-set>
  < router-name> router-name </router-name>
  < user-session xmlns= "http://xml.juniper.net/sdx/user-session"> ... </user-session>
< /sim-SAP>
```

### Contents

< interface-classification-context>

[interface-classification-context](#)

< provisioning-set>

[provisioning-set](#)

< router-name> —Device name

**Value**—Text

< user-session>

Multiple tag: can occur zero or more times.

[user-session](#)

### Style

#### brief

< interface-classification-context>

#### detail

```
< interface-classification-context>
< provisioning-set>
< user-session>
```

## <state-synchronizer>

### Usage

```
< state-synchronizer xmlns= "http://xml.juniper.net/sdx/state-synchronizer">
  < end-time> end-time < /end-time>
  < fast-resync-status> fast-resync-status < /fast-resync-status>
  < num-post-sync-jobs-created> num-post-sync-jobs-created < /num-post-sync-jobs-created>
  < num-sync-ctxs> num-sync-ctxs < /num-sync-ctxs>
  < router-name> router-name < /router-name>
  < start-time> start-time < /start-time>
< /state-synchronizer>
```

### Contents

< end-time> —End time

**Value**—Text

< fast-resync-status> —Fast resync

**Value**—Text

< num-post-sync-jobs-created> —Number of post-sync jobs

**Value**—Integer in the range -2147483648–2147483647

< num-sync-ctxs> —Number of synched contexts

**Value**—Integer in the range -2147483648–2147483647

< router-name> —Device name

**Value**—Text

< start-time> —Start time

**Value**—Text

## <statistics-set>

### Usage

```
< statistics-set xmlns= "http://xml.juniper.net/sdx/statistics-set">
  < radius-client-statistics xmlns= "http://xml.juniper.net/sdx/radius-client-statistics"> ... </radius-client-statistics>
  < router-common-statistics xmlns= "http://xml.juniper.net/sdx/router-common-statistics"> ... </router-common-statistics>
  < router-statistics xmlns= "http://xml.juniper.net/sdx/router-statistics"> ... </router-statistics>
< /statistics-set>
```

### Contents

< radius-client-statistics>

Multiple tag: can occur zero or more times.  
[radius-client-statistics](#)

< router-common-statistics>

Multiple tag: can occur zero or more times.  
[router-common-statistics](#)

< router-statistics>

Multiple tag: can occur zero or more times.  
[router-statistics](#)

### Style

#### brief

```
< radius-client-statistics>
< router-common-statistics>
< router-statistics>
```

#### detail

```
< radius-client-statistics>
< router-common-statistics>
< router-statistics>
```

## <statistics>

### Usage

```
< statistics xmlns= "http://xml.juniper.net/sdx/statistics">  
  < data> data </data>  
< /statistics>
```

### Contents

< data>

**Value**—Text

### Style

#### **brief**

< data>

#### **detail**

< data>



## <thread-group-wrapper>

### Usage

```
< thread-group-wrapper xmlns= "http://xml.juniper.net/sdx/thread-group-wrapper">
  < active-count> active-count < /active-count>
  < active-group-count> active-group-count < /active-group-count>
  < max-priority> max-priority < /max-priority>
  < name> name < /name>
  < thread-wrapper xmlns= "http://xml.juniper.net/sdx/thread-wrapper"> ... < /thread-wrapper>
< /thread-group-wrapper>
```

### Contents

< active-count> —Active threads

**Value**—Integer in the range -2147483648–2147483647

< active-group-count> —Active groups

**Value**—Integer in the range -2147483648–2147483647

< max-priority> —Max priority

**Value**—Integer in the range -2147483648–2147483647

< name> —Thread group name

**Value**—Text

< thread-wrapper>

Multiple tag: can occur zero or more times.

[thread-wrapper](#)

## <thread-wrapper>

### Usage

```
< thread-wrapper xmlns= "http://xml.juniper.net/sdx/thread-wrapper">
  < is-daemon> is-daemon < /is-daemon>
  < name> name < /name>
  < priority> priority < /priority>
< /thread-wrapper>
```

### Contents

< is-daemon> —Daemon thread

**Value**—Boolean

< name> —Thread name

**Value**—Text

< priority> —Priority

**Value**—Integer in the range -2147483648–2147483647

## <transaction-manager>

### Usage

```
< transaction-manager xmlns= "http://xml.juniper.net/sdx/transaction-manager">  
  < queue-size> queue-size </queue-size>  
  < router-name> router-name </router-name>  
< /transaction-manager>
```

### Contents

< queue-size> —Transaction queue size

**Value**—Integer in the range -2147483648–2147483647

< router-name> —Device name

**Value**—Text

## <user-classification-context>

### Usage

```
< user-classification-context xmlns= "http://xml.juniper.net/sdx/user-classification-context">
  < dhcp-packet xmlns= "http://xml.juniper.net/sdx/dhcp-packet"> ... </dhcp-packet>
  < domain-name> domain-name </domain-name>
  < if-alias> if-alias </if-alias>
  < if-desc> if-desc </if-desc>
  < interface-name> interface-name </interface-name>
  < interface-type> interface-type </interface-type>
  < login-name> login-name </login-name>
  < login-type> login-type </login-type>
  < mac-address> mac-address </mac-address>
  < nas-ip> nas-ip </nas-ip>
  < nas-port-id> nas-port-id </nas-port-id>
  < primary-user-name> primary-user-name </primary-user-name>
  < property> property </property>
  < radius-class> radius-class </radius-class>
  < service-bundle> service-bundle </service-bundle>
  < substitution> substitution </substitution>
  < user-name> user-name </user-name>
  < user-type> user-type </user-type>
  < virtual-router-name> virtual-router-name </virtual-router-name>
</ user-classification-context>
```

### Contents

< dhcp-packet>

[dhcp-packet](#)

< domain-name> —Domain Name

**Value**—Text

< if-alias> —Interface Alias

**Value**—Text

< if-desc> —Interface Description

**Value**—Text

< interface-name> —Interface Name

**Value**—Text

< interface-type> —Interface Type

**Value**—Text

< login-name> —Login Name

**Value**—Text

< login-type> —Login Type

**Value**—Text

< mac-address> —MAC Address

**Value**—Text

< nas-ip> —NAS IP

**Value**—IP address

< nas-port-id> —NAS Port ID

**Value**—Text

< primary-user-name> —Primary User Name

**Value**—Text

< property> —Session Properties

**Value**—Text

< radius-class> —RADIUS class

**Value**—Text

< service-bundle> —Service Bundle

**Value**—Text

< substitution> —Session Substitutions

**Value**—Text

< user-name> —User Name

**Value**—Text

< user-type> —User Type

**Value**—Text

< virtual-router-name> —Device Name

**Value**—Text

## Style

### brief

< interface-name>  
 < login-name>  
 < mac-address>  
 < virtual-router-name>

### detail

< dhcp-packet>  
 < domain-name>  
 < if-alias>  
 < if-desc>  
 < interface-name>  
 < interface-type>  
 < login-name>  
 < login-type>  
 < mac-address>  
 < nas-ip>  
 < nas-port-id>  
 < primary-user-name>

< property>  
< service-bundle>  
< substitution>  
< user-name>  
< user-type>  
< virtual-router-name>

## <user-profile>

### Usage

```
< user-profile xmlns= "http://xml.juniper.net/sdx/user-profile">
  < attributes> attributes </attributes>
  < is-unauthenticated> is-unauthenticated </is-unauthenticated>
  < number-of-logged-users> number-of-logged-users </number-of-logged-users>
  < number-of-users> number-of-users </number-of-users>
  < service-profile xmlns= "http://xml.juniper.net/sdx/service-profile"> ... </service-profile>
  < user-dn> user-dn </user-dn>
  < user-profile xmlns= "http://xml.juniper.net/sdx/user-profile"> ... </user-profile>
< /user-profile>
```

### Contents

< attributes> —User LDAP attributes

**Value**—Text

< is-unauthenticated> —Unauthenticated

**Value**—Boolean

< number-of-logged-users> —Logins with this user profile

**Value**—Integer in the range -2147483648–2147483647

< number-of-users> —Current logins

**Value**—Integer in the range -2147483648–2147483647

< service-profile> —User subscription

Multiple tag: can occur zero or more times.  
[service-profile](#)

< user-dn> —User Dn

**Value**—Text



< user-profile>

[user-profile](#)

## <user-session>

### Usage

```
< user-session xmlns= "http://xml.juniper.net/sdx/user-session">
  < auto-subscriptions> auto-subscriptions < /auto-subscriptions>
  < date-login-time> date-login-time < /date-login-time>
  < load-subscriptions> load-subscriptions < /load-subscriptions>
  < login-name> login-name < /login-name>
  < radius-session-id> radius-session-id < /radius-session-id>
  < service-session xmlns= "http://xml.juniper.net/sdx/service-session"> ... < /service-session>
  < session-timeout> session-timeout < /session-timeout>
  < user-classification-context xmlns= "http://xml.juniper.net/sdx/user-classification-context"> ... < /user-classification-context>
  < user-dn> user-dn < /user-dn>
  < user-ip> user-ip < /user-ip>
  < user-profile xmlns= "http://xml.juniper.net/sdx/user-profile"> ... < /user-profile>
< /user-session>
```

### Release Information

Tag introduced in Release src 1.0.0

### Description

User Session Information

### Contents

< auto-subscriptions> —Automatic subscriptions

Automatic subscriptions set by RADIUS auth plug-in  
**Value**—Text

< date-login-time> —Login time

< load-subscriptions> —Filter for subscriptions

Filter for subscriptions set by RADIUS auth plug-in  
**Value**—Text

< login-name> —Login name

< radius-session-id> —RADIUS session ID

**Value**—Text

< service-session>

Multiple tag: can occur zero or more times.

[service-session](#)

< session-timeout> —Session Timeout

**Value**—Integer in the range 0–9223372036854775807

**Units**—second

< user-classification-context>

Mandatory tag: must occur at least one time.

[user-classification-context](#)

< user-dn> —User DN

**Value**—Text

< user-ip> —User IP

**Value**—IP address

< user-profile>

Mandatory tag: must occur at least one time.

[user-profile](#)

## Style

### brief

< date-login-time>  
 < radius-session-id>  
 < session-timeout>  
 < user-classification-context>  
 < user-dn>  
 < user-ip>

## **detail**

< auto-subscriptions>  
< date-login-time>  
< radius-session-id>  
< service-session>  
< session-timeout>  
< user-classification-context>  
< user-dn>  
< user-ip>  
< user-profile>

## **terse**

< login-name>  
< radius-session-id>  
< user-ip>

## <user-sessions>

### Usage

```
< user-sessions xmlns= "http://xml.juniper.net/sdx/user-sessions">  
  < user-session xmlns= "http://xml.juniper.net/sdx/user-session"> ... < /user-session>  
< /user-sessions>
```

### Contents

< user-session>

Multiple tag: can occur zero or more times.

[user-session](#)

### Style

#### **brief**

< user-session>

#### **detail**

< user-session>

#### **terse**

< user-session>

## <user-type>

### Usage

```
< user-type xmlns= "http://xml.juniper.net/sdx/user-type">  
  < user> user </user>  
< /user-type>
```

### Contents

< user> —User Type

**Value**—Text

## <XDR-state-synchronizer>

### Usage

```
< XDR-state-synchronizer xmlns= "http://xml.juniper.net/sdx/XDR-state-synchronizer">
  < end-time> end-time < /end-time>
  < num-post-sync-jobs-created> num-post-sync-jobs-created < /num-post-sync-jobs-created>
  < num-sync-ctxs> num-sync-ctxs < /num-sync-ctxs>
  < router-name> router-name < /router-name>
  < start-time> start-time < /start-time>
< /XDR-state-synchronizer>
```

### Contents

< end-time> —End time

**Value**—Text

< num-post-sync-jobs-created> —Number of post-sync jobs

**Value**—Integer in the range -2147483648–2147483647

< num-sync-ctxs> —Number of synched contexts

**Value**—Integer in the range -2147483648–2147483647

< router-name> —Device name

**Value**—Text

< start-time> —Start time

**Value**—Text





# Network Information Collector (NIC) Operational Tag Elements

[Table 14](#) lists the SRC CLI operational mode commands that have corresponding SRC XML request tag elements in the current version of the SRC software, and maps each command to its request tag element. CLI commands are listed in alphabetical order.

For a list of mappings organized alphabetically by request tag element name, see [Table 15](#). For more information about CLI commands, see the *SRC PE CLI Command Reference*.

For a list of response tag elements, see [Table 16](#).

Table 14: Mapping of NIC CLI Commands to Operational Tag Elements

CLI Command	Request Tag Element
request network-publisher execute	request-network-publisher-execute
request nic clear scenario-data	request-nic-clear-scenario-data
request nic restart agent	request-nic-restart-agent
request nic restart resolver	request-nic-restart-resolver
show nic data	get-nic-data
show nic data agent	get-nic-data-agent
show nic data resolver	get-nic-data-resolver
show nic statistics	get-nic-statistics
show nic statistics agent	get-nic-statistics-agent
show nic statistics host	get-nic-statistics-host
show nic statistics process	get-nic-statistics-process
show nic statistics resolver	get-nic-statistics-resolver
test nic resolve	test-nic-resolve

[Table 15](#) maps SRC XML operational request tag elements to SRC CLI commands. Tag elements are listed in alphabetical order.

Table 15: Mapping of NIC Operational Tag Elements to CLI Commands

Request Tag Element	CLI Command
<a href="#">get-nic-data</a>	show nic data

<a href="#">get-nic-data-agent</a>	show nic data agent
<a href="#">get-nic-data-resolver</a>	show nic data resolver
<a href="#">get-nic-statistics</a>	show nic statistics
<a href="#">get-nic-statistics-agent</a>	show nic statistics agent
<a href="#">get-nic-statistics-host</a>	show nic statistics host
<a href="#">get-nic-statistics-process</a>	show nic statistics process
<a href="#">get-nic-statistics-resolver</a>	show nic statistics resolver
<a href="#">request-network-publisher-execute</a>	request network-publisher execute
<a href="#">request-nic-clear-scenario-data</a>	request nic clear scenario-data
<a href="#">request-nic-restart-agent</a>	request nic restart agent
<a href="#">request-nic-restart-resolver</a>	request nic restart resolver
<a href="#">test-nic-resolve</a>	test nic resolve

[Table 16](#) lists the SRC XML operational response tag elements. Tag elements are listed in alphabetical order.

Table 16: Operational Response Tag Elements

<b>Response Tag Element</b>
<a href="#">data-pair</a>
<a href="#">generic</a>
<a href="#">network-data</a>
<a href="#">resolver-data</a>
<a href="#">statistics-data</a>

## <get-nic-data>

### Usage

```
<rpc>
  <get-nic-data>
    <maximum-results> maximum-results </maximum-results>
  </get-nic-data>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display data that NIC uses during resolutions.

### Contents

`<maximum-results>`— (Optional) Number of results to be displayed.

**Value**—Integer in the range 1–2147483647

**Default**—25

### Required Privilege Level

view

### Output Tag

[resolver-data](#)

## <get-nic-data-agent>

### Usage

```
<rpc>
  <get-nic-data-agent>
    <name> name </name>
  </get-nic-data-agent>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display the data that NIC agents store.

### Contents

<name>— (Optional) Name of a NIC agent.

**Value**— Agent name. The agents included with the SRC software are:

- AcctIdIp
- DnVr
- Enterprise
- IpAcctId
- IpLoginName
- IpVr
- LoginNameVr
- PoolVr
- UserNameVr
- VrSaeId

**Default**— No value

### Required Privilege Level

view

## <get-nic-data-resolver>

### Usage

```
<rpc>
  <get-nic-data-resolver>
    <name> name </name>
  </get-nic-data-resolver>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display data that NIC resolvers store.

### Contents

<name>— (Optional) Name of a NIC resolver.

**Value**— Resolver name

**Default**— No value

### Required Privilege Level

view

## <get-nic-statistics>

### Usage

```
<rpc>  
  <get-nic-statistics>  
  </get-nic-statistics>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display statistics for NIC.

### Required Privilege Level

view

### Output Tag

[statistics-data](#)

## <get-nic-statistics-agent>

### Usage

```
<rpc>
  <get-nic-statistics-agent>
    <name> name </name>
  </get-nic-statistics-agent>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display statistics for NIC agents. If you do not specify an agent name, the command displays statistics for all NIC agents.

### Contents

<name>— (Optional) Name of a NIC agent.

**Value**— Agent name. The agents included with the SRC software are:

- AcctIdIp
- DnVr
- Enterprise
- IpAcctId
- IpLoginName
- IpVr
- LoginNameVr
- PoolVr
- UserNameVr
- VrSaeId

**Default**— No value

### Required Privilege Level

view

## **<get-nic-statistics-host>**

### **Usage**

```
<rpc>  
  <get-nic-statistics-host>  
  </get-nic-statistics-host>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Display statistics for the NIC host.

### **Required Privilege Level**

view



## **<get-nic-statistics-process>**

### **Usage**

```
<rpc>  
  <get-nic-statistics-process>  
  </get-nic-statistics-process>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Display process information for the NIC.

### **Required Privilege Level**

view

## <get-nic-statistics-resolver>

### Usage

```
<rpc>  
  <get-nic-statistics-resolver>  
    <name> name </name>  
  </get-nic-statistics-resolver>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display statistics for NIC resolvers. If you do not specify a resolver name, the software displays statistics for all resolvers.

### Contents

<name>— (Optional) Name of a NIC resolver.

**Value**— Resolver name

**Default**— No value

### Required Privilege Level

view

## **<request-network-publisher-execute>**

### **Usage**

```
<rpc>  
  <request-network-publisher-execute>  
  </request-network-publisher-execute>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Run the network publisher. The network publisher is a NIC component that connects to JUNOS routing platforms and collects information, such as information about system interfaces and VPNs, from IPv4 and IPv6 routing tables. After collecting the information, the network publisher stores this information in the Juniper Networks database for access by the NIC.

Before you run this command, make sure that the network publisher is configured and that the NIC is enabled.

### **Required Privilege Level**

maintenance

## **<request-nic-clear-scenario-data>**

### **Usage**

```
<rpc>  
  <request-nic-clear-scenario-data>  
  </request-nic-clear-scenario-data>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Remove data stored for NIC scenarios. Run this command when you switch from one NIC configuration scenario to another.

Before you run this command, disable NIC by using the `disable component nic` command.

### **Required Privilege Level**

maintenance

## <request-nic-restart-agent>

### Usage

```
<rpc>
  <request-nic-restart-agent>
    <name> name </name>
  </request-nic-restart-agent>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Restart NIC agents. If you do not specify an agent name, the software restarts all NIC agents.

You can restart a NIC agent to have the agent read all data in the directory again. Restart a NIC agent if the agent is not synchronized with the directory, or if you switch from one directory to another.

### Contents

<name>— (Optional) Name of the NIC agent to restart.

**Value**— Agent name. The agents included with the SRC software are:

- AcctIdIp
- DnVr
- Enterprise
- IpAcctId
- IpLoginName
- IpVr
- LoginNameVr
- PoolVr
- UserNameVr
- VrSaeId

**Default**— No value

### Required Privilege Level

maintenance

## <request-nic-restart-resolver>

### Usage

```
<rpc>
  <request-nic-restart-resolver>
    <name> name </name>
  </request-nic-restart-resolver>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Restart NIC resolvers. If you do not specify a resolver name, the software restarts all resolvers.

In rare instances, such as when you are troubleshooting a NIC configuration, you may want to restart a NIC resolver.

### Contents

<name>— (Optional) Name of the NIC resolver to restart.

**Value**— Resolver name

**Default**— No value

### Required Privilege Level

maintenance

## <test-nic-resolve>

### Usage

```
<rpc>
  <test-nic-resolve>
    <locator> locator </locator>
    <key> key </key>
    <constraints> constraints </constraints>
  </test-nic-resolve>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Issue a resolution request to the NIC host to test NIC resolution for a specified key.

### Contents

**<locator>**— Name of a NIC locator. A NIC locator can resolve the value of one or more NIC keys. Each NIC configuration scenario provides configuration for an associated NIC locator.

**Value**— Name of a NIC locator

**<key>**— The NIC key to resolve.

**Value**— NIC key in the form `NIC data type:key string`; for example:  
Ip:10.10.10.10.

**<constraints>**— (Optional) List of values for NIC constraints. Constraints are NIC data types that a resolver uses when it executes a role (also referred to as a transition) in the resolution process. A role resolves a NIC key to a NIC value.

**Value**— Constraints in the form: `[constraint (,constraint)*]`. For each constraint, use the format: `NIC data type:key string`. For example,  
[AnyString(conn):false, domain:virneo]

### Required Privilege Level

maintenance

## <data-pair>

### Usage

```
< data-pair xmlns= "http://xml.juniper.net/sdx/data-pair">  
  < to-string> to-string < /to-string>  
< /data-pair>
```

### Contents

< to-string>

**Value**—Text



## <generic>

### Usage

```
< generic xmlns= "http://xml.juniper.net/sdx/generic">  
  < generic-class> generic-class < /generic-class>  
< /generic>
```

### Contents

< generic-class>

## <network-data>

### Usage

```
< network-data xmlns= "http://xml.juniper.net/sdx/network-data">  
  < to-string> to-string < /to-string>  
< /network-data>
```

### Contents

< to-string>

**Value**—Text

## <resolver-data>

### Usage

```
< resolver-data xmlns= "http://xml.juniper.net/sdx/resolver-data">
  < component-name> component-name < /component-name>
  < data-pair xmlns= "http://xml.juniper.net/sdx/data-pair"> ... < /data-pair>
  < network-data xmlns= "http://xml.juniper.net/sdx/network-data"> ... < /network-data>
< /resolver-data>
```

### Contents

< component-name> —Component name

< data-pair>

Multiple tag: can occur zero or more times.  
[data-pair](#)

< network-data>

Multiple tag: can occur zero or more times.  
[network-data](#)

## <statistics-data>

### Usage

```
< statistics-data xmlns= "http://xml.juniper.net/sdx/statistics-data">  
  < component-name> component-name < /component-name>  
  < component-stats> component-stats < /component-stats>  
< /statistics-data>
```

### Contents

< component-name> —Component Name

< component-stats>

**Value**—Text

# Juniper Policy Server (JPS) Operational Tag Elements

[Table 17](#) lists the SRC CLI operational mode commands that have corresponding SRC XML request tag elements in the current version of the SRC software, and maps each command to its request tag element. CLI commands are listed in alphabetical order.

For a list of mappings organized alphabetically by request tag element name, see [Table 18](#). For more information about CLI commands, see the *SRC PE CLI Command Reference*.

For a list of response tag elements, see [Table 19](#).

Table 17: Mapping of JPS CLI Commands to Operational Tag Elements

CLI Command	Request Tag Element
show jps statistics	get-jps-statistics
show jps statistics am	get-jps-statistics-am
show jps statistics am connections	get-jps-statistics-am-connections
show jps statistics cmts	get-jps-statistics-cmts
show jps statistics cmts connections	get-jps-statistics-cmts-connections
show jps statistics cmts-locator	get-jps-statistics-cmts-locator
show jps statistics message-handler	get-jps-statistics-message-handler
show jps statistics message-handler message-flow	get-jps-statistics-message-handler-message-flow
show jps statistics process	get-jps-statistics-process
show jps statistics rks	get-jps-statistics-rks

[Table 18](#) maps SRC XML operational request tag elements to SRC CLI commands. Tag elements are listed in alphabetical order.

Table 18: Mapping of JPS Operational Tag Elements to CLI Commands

Request Tag Element	CLI Command
<a href="#">get-jps-statistics</a>	show jps statistics
<a href="#">get-jps-statistics-am</a>	show jps statistics am
<a href="#">get-jps-statistics-am-connections</a>	show jps statistics am connections
<a href="#">get-jps-statistics-cmts</a>	show jps statistics cmts

<a href="#">get-jps-statistics-cmts-connections</a>	show jps statistics cmts connections
<a href="#">get-jps-statistics-cmts-locator</a>	show jps statistics cmts-locator
<a href="#">get-jps-statistics-message-handler</a>	show jps statistics message-handler
<a href="#">get-jps-statistics-message-handler-message-flow</a>	show jps statistics message-handler message-flow
<a href="#">get-jps-statistics-process</a>	show jps statistics process
<a href="#">get-jps-statistics-rks</a>	show jps statistics rks

[Table 19](#) lists the SRC XML operational response tag elements. Tag elements are listed in alphabetical order.

Table 19: Operational Response Tag Elements

<b>Response Tag Element</b>
<a href="#">admin</a>
<a href="#">jps-conns</a>
<a href="#">jps-server-process</a>
<a href="#">msg-flow</a>
<a href="#">msg-flows</a>
<a href="#">msg-handler</a>
<a href="#">north-conn-handler</a>
<a href="#">north</a>
<a href="#">pep-locator-nic</a>
<a href="#">radius-plugin</a>
<a href="#">south-conn-handler</a>
<a href="#">south-conn-mgr</a>

## <get-jps-statistics>

### Usage

```
<rpc>  
  <get-jps-statistics>  
  </get-jps-statistics>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display JPS statistics, including information about the server process and the current state of the JPS.

### Required Privilege Level

view

### Output Tag

[admin](#)

## **<get-jps-statistics-am>**

### **Usage**

```
<rpc>  
  <get-jps-statistics-am>  
  </get-jps-statistics-am>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Display statistics for the application manager-to-policy server interface.

### **Required Privilege Level**

view

### **Output Tag**

[north](#)



## <get-jps-statistics-am-connections>

### Usage

```
<rpc>
  <get-jps-statistics-am-connections>
    <ip-address> ip-address </ip-address>
  </get-jps-statistics-am-connections>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display statistics for JPS application manager connections.

### Contents

<ip-address>— (Optional) 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

### Required Privilege Level

view

### Output Tag

[jps-conns](#)

## **<get-jps-statistics-cmts>**

### **Usage**

```
<rpc>  
  <get-jps-statistics-cmts>  
  </get-jps-statistics-cmts>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Display JPS statistics for the policy server-to-CMTS interface.

### **Required Privilege Level**

view

### **Output Tag**

[south-conn-mgr](#)

## <get-jps-statistics-cmts-connections>

### Usage

```
<rpc>  
  <get-jps-statistics-cmts-connections>  
    <ip-address> ip-address </ip-address>  
  </get-jps-statistics-cmts-connections>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display statistics for JPS CMTS connections.

### Contents

<ip-address>— (Optional) IP address for the CMTS device.

**Value**— All or part of the IP address. If the IP address filter is not specified, all CMTS devices are selected.

**Default**— No value

### Required Privilege Level

view

### Output Tag

[jps-conns](#)

## **<get-jps-statistics-cmts-locator>**

### **Usage**

```
<rpc>  
  <get-jps-statistics-cmts-locator>  
  </get-jps-statistics-cmts-locator>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Display statistics for the CMTS locator.

### **Required Privilege Level**

view

### **Output Tag**

[pep-locator-nic](#)

## <get-jps-statistics-message-handler>

### Usage

```
<rpc>  
  <get-jps-statistics-message-handler>  
  </get-jps-statistics-message-handler>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display statistics for the JPS message handler.

### Required Privilege Level

view

### Output Tag

[msg-handler](#)

## <get-jps-statistics-message-handler-message-flow>

### Usage

```
<rpc>  
  <get-jps-statistics-message-handler-message-flow>  
    <id> id </id>  
  </get-jps-statistics-message-handler-message-flow>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display statistics for JPS message flows.

### Contents

<id>— (Optional) 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

### Required Privilege Level

view

### Output Tag

[msg-flows](#)

## <get-jps-statistics-process>

### Usage

```
<rpc>  
  <get-jps-statistics-process>  
  </get-jps-statistics-process>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display information about the JPS server process.

### Required Privilege Level

view

### Output Tag

[admin](#)

## <get-jps-statistics-rks>

### Usage

```
<rpc>  
  <get-jps-statistics-rks>  
  </get-jps-statistics-rks>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display JPS statistics for the policy server-to-RKS interface.

### Required Privilege Level

view

### Output Tag

[radius-plugin](#)



## <admin>

### Usage

```
< admin xmlns= "http://xml.juniper.net/sdx/admin">
  < jps-server-process xmlns= "http://xml.juniper.net/sdx/jps-server-process"> ... < /jps-server-process>
  < msg-handler xmlns= "http://xml.juniper.net/sdx/msg-handler"> ... < /msg-handler>
  < north xmlns= "http://xml.juniper.net/sdx/north"> ... < /north>
  < pep-locator-nic xmlns= "http://xml.juniper.net/sdx/pep-locator-nic"> ... < /pep-locator-nic>
  < radius-plugin xmlns= "http://xml.juniper.net/sdx/radius-plugin"> ... < /radius-plugin>
  < south-conn-mgr xmlns= "http://xml.juniper.net/sdx/south-conn-mgr"> ... < /south-conn-mgr>
< /admin>
```

### Description

### JPS Statistics

### Contents

< jps-server-process>

[jps-server-process](#)

< msg-handler>

[msg-handler](#)

< north>

[north](#)

< pep-locator-nic>

[pep-locator-nic](#)

< radius-plugin>

[radius-plugin](#)

< south-conn-mgr>

[south-conn-mgr](#)

## Style

### detail

```
< jps-server-process>  
< msg-handler>  
< north>  
< pep-locator-nic>  
< radius-plugin>  
< south-conn-mgr>
```

## <jps-conns>

### Usage

```
< jps-conns xmlns= "http://xml.juniper.net/sdx/jps-conns">
  < north-conn-handler xmlns= "http://xml.juniper.net/sdx/north-conn-handler"> ... < /north-conn-handler>
  < south-conn-handler xmlns= "http://xml.juniper.net/sdx/south-conn-handler"> ... < /south-conn-handler>
< /jps-conns>
```

### Contents

< north-conn-handler>

Multiple tag: can occur zero or more times.  
[north-conn-handler](#)

< south-conn-handler>

Multiple tag: can occur zero or more times.  
[south-conn-handler](#)

### Style

#### detail

```
< north-conn-handler>
< south-conn-handler>
```

## <jps-server-process>

### Usage

```
< jps-server-process xmlns= "http://xml.juniper.net/sdx/jps-server-process">
  < heap-limit> heap-limit </heap-limit>
  < heap-used> heap-used </heap-used>
  < thread> thread </thread>
  < up-since> up-since </up-since>
  < up-time> up-time </up-time>
< /jps-server-process>
```

### Description

JPS Server Process Statistics

### Contents

< heap-limit> —Heap limit(byte)

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< heap-used> —Heap used(byte)

**Value**—Text

< thread> —JPS server thread(s)

**Value**—Integer in the range -2147483648–2147483647

< up-since> —JPS server up since

**Value**—Text

< up-time> —JPS server up time(seconds)

**Value**—Integer in the range -2147483648–2147483647

### Style

#### detail

< heap-limit>  
< heap-used>  
< thread>  
< up-since>  
< up-time>

## <msg-flow>

### Usage

```
< msg-flow xmlns= "http://xml.juniper.net/sdx/msg-flow">
  < avg-latency> avg-latency < /avg-latency>
  < avg-throughput> avg-throughput < /avg-throughput>
  < creation-time> creation-time < /creation-time>
  < id> id < /id>
  < msg-drop> msg-drop < /msg-drop>
  < msg-fwd> msg-fwd < /msg-fwd>
  < msg-rcvd> msg-rcvd < /msg-rcvd>
  < msgflow-size> msgflow-size < /msgflow-size>
  < up-time> up-time < /up-time>
< /msg-flow>
```

### Description

JPS Message Flow

### Contents

< avg-latency> —Average non-decoding time in JPS (last 5000 messages, ms)

**Value**—Integer in the range -2147483648–2147483647

< avg-throughput> —Throughput (last 60s, msgs/s)

**Value**—Integer in the range -2147483648–2147483647

< creation-time> —Creation time

**Value**—Text

< id> —Flow id

**Value**—Text

< msg-drop> —Message dropped

**Value**—Integer in the range -2147483648–2147483647

< msg-fwd> —Message forwarded

**Value**—Integer in the range -2147483648–2147483647

< msg-rcvd> —Message received

**Value**—Integer in the range -2147483648–2147483647

< msgflow-size> —Message flow size

**Value**—Integer in the range -2147483648–2147483647

< up-time> —Up time (s)

**Value**—Integer in the range -9223372036854775808–9223372036854775807

## Style

### detail

< avg-latency>  
 < avg-throughput>  
 < creation-time>  
 < id>  
 < msg-drop>  
 < msg-fwd>  
 < msg-rcvd>  
 < msgflow-size>  
 < up-time>

## <msg-flows>

### Usage

```
< msg-flows xmlns= "http://xml.juniper.net/sdx/msg-flows">  
  < msg-flow xmlns= "http://xml.juniper.net/sdx/msg-flow"> ... </msg-flow>  
< /msg-flows>
```

### Contents

< msg-flow>

Multiple tag: can occur zero or more times.

[msg-flow](#)

### Style

#### detail

< msg-flow>



## <msg-handler>

### Usage

```
< msg-handler xmlns= "http://xml.juniper.net/sdx/msg-handler">
  < avg-latency> avg-latency < /avg-latency>
  < avg-throughput> avg-throughput < /avg-throughput>
  < msg-drop> msg-drop < /msg-drop>
  < msg-forward> msg-forward < /msg-forward>
  < msg-rcvd> msg-rcvd < /msg-rcvd>
< /msg-handler>
```

### Description

JPS Message Handler

### Contents

< avg-latency> —Average non-decoding time in JPS (last 5000 messages, ms)

**Value**—Integer in the range -2147483648–2147483647

< avg-throughput> —Throughput (last 60s, msgs/s)

**Value**—Integer in the range -2147483648–2147483647

< msg-drop> —Message dropped

**Value**—Integer in the range -2147483648–2147483647

< msg-forward> —Message handled

**Value**—Integer in the range -2147483648–2147483647

< msg-rcvd> —Messages received

**Value**—Integer in the range -2147483648–2147483647

### Style

#### detail

< avg-latency>  
< avg-throughput>  
< msg-drop>  
< msg-forward>  
< msg-rcvd>

## <north-conn-handler>

### Usage

```
< north-conn-handler xmlns= "http://xml.juniper.net/sdx/north-conn-handler">
  < conn-ip> conn-ip </conn-ip>
  < creation-time> creation-time </creation-time>
  < decs-discarded> decs-discarded </decs-discarded>
  < decs-invalid> decs-invalid </decs-invalid>
  < decs-rcvd> decs-rcvd </decs-rcvd>
  < decs-rejected> decs-rejected </decs-rejected>
  < rpts-sent> rpts-sent </rpts-sent>
  < sscs-sent> sscs-sent </sscs-sent>
  < ssqs-rcvd> ssqs-rcvd </ssqs-rcvd>
  < up-time> up-time </up-time>
</north-conn-handler>
```

### Description

JPS AM interface current connection

### Contents

< conn-ip> —AM connection IP

**Value**—Text

< creation-time> —Creation time

**Value**—Text

< decs-discarded> —DECs discarded by PS

**Value**—Integer in the range -2147483648–2147483647

< decs-invalid> —Invalid DECs received

**Value**—Integer in the range -2147483648–2147483647

< decs-rcvd> —DECs received

**Value**—Integer in the range -2147483648–2147483647

< decs-rejected> —DECs rejected by PS

**Value**—Integer in the range -2147483648–2147483647

< rpts-sent> —RPTs sent

**Value**—Integer in the range -2147483648–2147483647

< sscs-sent> —SSCs sent

**Value**—Integer in the range -2147483648–2147483647

< ssqs-rcvd> —SSQs received

**Value**—Integer in the range -2147483648–2147483647

< up-time> —Up time (s)

**Value**—Integer in the range -9223372036854775808–9223372036854775807

## Style

### detail

- < conn-ip>
- < creation-time>
- < decs-discarded>
- < decs-invalid>
- < decs-rcvd>
- < decs-rejected>
- < sscs-sent>
- < ssqs-rcvd>
- < up-time>

## <north>

### Usage

```
< north xmlns= "http://xml.juniper.net/sdx/north">
  < connection-closed> connection-closed < /connection-closed>
  < connection-opened> connection-opened < /connection-opened>
< /north>
```

### Description

JPS AM Interface

### Contents

< connection-closed> —Connections closed

**Value**—Integer in the range -2147483648–2147483647

< connection-opened> —Connections opened

**Value**—Integer in the range -2147483648–2147483647

### Style

#### detail

```
< connection-closed>
< connection-opened>
```

## <pep-locator-nic>

### Usage

```
< pep-locator-nic xmlns= "http://xml.juniper.net/sdx/pep-locator-nic">
  < avg-lookup-time> avg-lookup-time < /avg-lookup-time>
  < max-lookup-time> max-lookup-time < /max-lookup-time>
  < min-lookup-time> min-lookup-time < /min-lookup-time>
  < num-lookup> num-lookup < /num-lookup>
  < num-lookup-error> num-lookup-error < /num-lookup-error>
  < num-nomatch> num-nomatch < /num-nomatch>
< /pep-locator-nic>
```

### Description

JPS CMTS Locator

### Contents

< avg-lookup-time> —Average lookup time (last 100 lookups, ms)

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< max-lookup-time> —Maximum lookup time (ms)

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< min-lookup-time> —Minimum lookup time (ms)

**Value**—Integer in the range -2147483648–2147483647

< num-lookup> —Number of lookups

**Value**—Integer in the range -2147483648–2147483647

< num-lookup-error> —Number of lookup errors

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< num-nomatch> —Number of no-match lookups

**Value**—Integer in the range -2147483648–2147483647

## Style

### detail

```
< avg-lookup-time>  
< max-lookup-time>  
< min-lookup-time>  
< num-lookup>  
< num-lookup-error>  
< num-nomatch>
```

## <radius-plugin>

### Usage

```
< radius-plugin xmlns= "http://xml.juniper.net/sdx/radius-plugin">
  < egi-cache-size> egi-cache-size </egi-cache-size>
  < gate-del-ack-rcvd> gate-del-ack-rcvd </gate-del-ack-rcvd>
  < gate-del-err-rcvd> gate-del-err-rcvd </gate-del-err-rcvd>
  < gate-del-rcvd> gate-del-rcvd </gate-del-rcvd>
  < gate-info-ack-rcvd> gate-info-ack-rcvd </gate-info-ack-rcvd>
  < gate-info-ack-response-rcvd> gate-info-ack-response-rcvd </gate-info-ack-response-rcvd>
  < gate-info-err-rcvd> gate-info-err-rcvd </gate-info-err-rcvd>
  < gate-info-err-response-rcvd> gate-info-err-response-rcvd </gate-info-err-response-rcvd>
  < gate-info-rcvd> gate-info-rcvd </gate-info-rcvd>
  < gate-info-sent> gate-info-sent </gate-info-sent>
  < gate-rpt-state-close-egi-status-unknown> gate-rpt-state-close-egi-status-unknown </gate-rpt-state-close-egi-status-unknown>
  < gate-rpt-state-close-rcvd> gate-rpt-state-close-rcvd </gate-rpt-state-close-rcvd>
  < gate-rpt-state-non-close-rcvd> gate-rpt-state-non-close-rcvd </gate-rpt-state-non-close-rcvd>
  < gate-set-ack-rcvd> gate-set-ack-rcvd </gate-set-ack-rcvd>
  < gate-set-err-rcvd> gate-set-err-rcvd </gate-set-err-rcvd>
  < held-decs-size> held-decs-size </held-decs-size>
  < initial-gate-set-rcvd> initial-gate-set-rcvd </initial-gate-set-rcvd>
  < non-initial-gate-set-rcvd> non-initial-gate-set-rcvd </non-initial-gate-set-rcvd>
  < pending-rks-events-size> pending-rks-events-size </pending-rks-events-size>
  < pl-del-evt-sent> pl-del-evt-sent </pl-del-evt-sent>
  < pl-req-evt-sent> pl-req-evt-sent </pl-req-evt-sent>
  < pl-update-evt-sent> pl-update-evt-sent </pl-update-evt-sent>
  < synch-complete-err-rcvd> synch-complete-err-rcvd </synch-complete-err-rcvd>
  < synch-complete-rcvd> synch-complete-rcvd </synch-complete-rcvd>
  < synch-req-rcvd> synch-req-rcvd </synch-req-rcvd>
  < synch-rpt-rcvd> synch-rpt-rcvd </synch-rpt-rcvd>
  < time-change-evt-sent> time-change-evt-sent </time-change-evt-sent>
</radius-plugin>
```

### Description

JPS RKS

### Contents

< egi-cache-size> —EGI cache size

**Value**—Integer in the range -2147483648–2147483647

< gate-del-ack-rcvd> —Gate-Del-Acks observed

**Value**—Integer in the range -2147483648–2147483647



< gate-del-err-rcvd> —Gate-Del-Errs observed

**Value**—Integer in the range -2147483648–2147483647

< gate-del-rcvd> —Gate-Dels observed

**Value**—Integer in the range -2147483648–2147483647

< gate-info-ack-rcvd> —Gate-Info-Acks observed

**Value**—Integer in the range -2147483648–2147483647

< gate-info-ack-response-rcvd> —Gate-Info-Acks received

**Value**—Integer in the range -2147483648–2147483647

< gate-info-err-rcvd> —Gate-Info-Errs observed

**Value**—Integer in the range -2147483648–2147483647

< gate-info-err-response-rcvd> —Gate-Info-Errs received

**Value**—Integer in the range -2147483648–2147483647

< gate-info-rcvd> —Gate-Infos observed

**Value**—Integer in the range -2147483648–2147483647

< gate-info-sent> —Gate-Infos sent

**Value**—Integer in the range -2147483648–2147483647

< gate-rpt-state-close-egi-status-unknown> —Gate-Report-State-Close-EGI-Status-Unknown observed

**Value**—Integer in the range -2147483648–2147483647

< gate-rpt-state-close-rcvd> —Gate-Report-State-Close observed

**Value**—Integer in the range -2147483648–2147483647

< gate-rpt-state-non-close-rcvd> —Gate-Report-State-Non-Close observed

**Value**—Integer in the range -2147483648–2147483647

< gate-set-ack-rcvd> —Gate-Set-Acks observed

**Value**—Integer in the range -2147483648–2147483647

< gate-set-err-rcvd> —Gate-Set-Errs observed

**Value**—Integer in the range -2147483648–2147483647

< held-decs-size> —Held DECs

**Value**—Integer in the range -2147483648–2147483647

< initial-gate-set-rcvd> —Initial-Gate-Set observed

**Value**—Integer in the range -2147483648–2147483647

< non-initial-gate-set-rcvd> —Non-Initial-Gate-Set observed

**Value**—Integer in the range -2147483648–2147483647

< pending-rks-events-size> —Pending RKS events

**Value**—Integer in the range -2147483648–2147483647

< pl-del-evt-sent> —Policy-Delete events sent

**Value**—Integer in the range -2147483648–2147483647

< pl-req-evt-sent> —Policy-Request events sent

**Value**—Integer in the range -2147483648–2147483647

< pl-update-evt-sent> —Policy-Update events sent

**Value**—Integer in the range -2147483648–2147483647

< synch-complete-err-rcvd> —Synch-Completes (error) observed

**Value**—Integer in the range -2147483648–2147483647

< synch-complete-rcvd> —Synch-Completes (no error) observed

**Value**—Integer in the range -2147483648–2147483647

< synch-req-rcvd> —Synch-Requests observed

**Value**—Integer in the range -2147483648–2147483647

< synch-rpt-rcvd> —Synch-Reports observed

**Value**—Integer in the range -2147483648–2147483647

< time-change-evt-sent> —Time-Change events broadcast

**Value**—Integer in the range -2147483648–2147483647

## Style

### detail

- < egi-cache-size>
- < gate-del-ack-rcvd>
- < gate-del-err-rcvd>
- < gate-del-rcvd>
- < gate-info-ack-rcvd>
- < gate-info-ack-response-rcvd>
- < gate-info-err-rcvd>
- < gate-info-err-response-rcvd>
- < gate-info-rcvd>
- < gate-info-sent>
- < gate-rpt-state-close-egi-status-unknown>
- < gate-rpt-state-close-rcvd>
- < gate-rpt-state-non-close-rcvd>
- < gate-set-ack-rcvd>
- < gate-set-err-rcvd>
- < held-decs-size>

- < initial-gate-set-rcvd>
- < non-initial-gate-set-rcvd>
- < pending-rks-events-size>
- < pl-del-evt-sent>
- < pl-req-evt-sent>
- < pl-update-evt-sent>
- < synch-req-rcvd>
- < synch-rpt-rcvd>
- < time-change-evt-sent>

## <south-conn-handler>

### Usage

```
< south-conn-handler xmlns= "http://xml.juniper.net/sdx/south-conn-handler">
  < conn-ip> conn-ip </conn-ip>
  < creation-time> creation-time </creation-time>
  < dec-latency> dec-latency </dec-latency>
  < dec-timedout> dec-timedout </dec-timedout>
  < decs-sent> decs-sent </decs-sent>
  < invalid-rpts-rcvd> invalid-rpts-rcvd </invalid-rpts-rcvd>
  < rpts-discarded> rpts-discarded </rpts-discarded>
  < rpts-rcvd> rpts-rcvd </rpts-rcvd>
  < sscs-rcvd> sscs-rcvd </sscs-rcvd>
  < ssqs-sent> ssqs-sent </ssqs-sent>
  < up-time> up-time </up-time>
</south-conn-handler>
```

### Description

JPS CMTS Connection

### Contents

< conn-ip> —CMTS connection IP

**Value**—Text

< creation-time> —Creation time

**Value**—Text

< dec-latency> —Avg DEC-RPT time (last 5000 DECs, ms)

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< dec-timedout> —Timed out DECs

**Value**—Integer in the range -2147483648–2147483647

< decs-sent> —DECs sent

**Value**—Integer in the range -2147483648–2147483647

< invalid-rpts-rcvd> —Invalid RPTs received

**Value**—Integer in the range -2147483648–2147483647

< rpts-discarded> —RPTs discarded by PS

**Value**—Integer in the range -2147483648–2147483647

< rpts-rcvd> —RPTs received

**Value**—Integer in the range -2147483648–2147483647

< sscs-rcvd> —SSCs received

**Value**—Integer in the range -2147483648–2147483647

< ssqs-sent> —SSQs sent

**Value**—Integer in the range -2147483648–2147483647

< up-time> —Up time (s)

**Value**—Integer in the range -9223372036854775808–9223372036854775807

## Style

### detail

< conn-ip>  
 < creation-time>  
 < dec-latency>  
 < dec-timedout>  
 < decs-sent>  
 < invalid-rpts-rcvd>  
 < rpts-discarded>  
 < rpts-rcvd>  
 < sscs-rcvd>  
 < ssqs-sent>  
 < up-time>

## <south-conn-mgr>

### Usage

```
< south-conn-mgr xmlns= "http://xml.juniper.net/sdx/south-conn-mgr">
  < conns-closed> conns-closed < /conns-closed>
  < conns-opened> conns-opened < /conns-opened>
  < sync-broadcast> sync-broadcast < /sync-broadcast>
  < sync-latency> sync-latency < /sync-latency>
  < sync-timedout> sync-timedout < /sync-timedout>
< /south-conn-mgr>
```

### Description

JPS CMTS Interface

### Contents

< conns-closed> —Connections closed

**Value**—Integer in the range -2147483648–2147483647

< conns-opened> —Connections opened

**Value**—Integer in the range -2147483648–2147483647

< sync-broadcast> —Sync-Request/SSQ broadcasts

**Value**—Integer in the range -2147483648–2147483647

< sync-latency> —Avg sync time (last 10 syncs, ms)

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< sync-timedout> —Timed out syncs

**Value**—Integer in the range -2147483648–2147483647

### Style

#### detail

- < conns-closed>
- < conns-opened>
- < sync-broadcast>
- < sync-latency>
- < sync-timedout>



## Redirect Server Operational Tag Elements

[Table 20](#) lists the SRC CLI operational mode commands that have corresponding SRC XML request tag elements in the current version of the SRC software, and maps each command to its request tag element. CLI commands are listed in alphabetical order.

For a list of mappings organized alphabetically by request tag element name, see [Table 21](#). For more information about CLI commands, see the *SRC PE CLI Command Reference*.

Table 20: Mapping of Redirect Server CLI Commands to Operational Tag Elements

CLI Command	Request Tag Element
show redirect-server statistics	show-redirect-server-statistics

[Table 21](#) maps SRC XML operational request tag elements to SRC CLI commands. Tag elements are listed in alphabetical order.

Table 21: Mapping of Redirect Server Operational Tag Elements to CLI Commands

Request Tag Element	CLI Command
<a href="#">show-redirect-server-statistics</a>	show redirect-server statistics

## <show-redirect-server-statistics>

### Usage

```
<rpc>  
  <show-redirect-server-statistics>  
    <output-style> output-style-choice </output-style>  
  </show-redirect-server-statistics>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display statistics for redirect server.

### Contents

<output-style>— (Optional) Output style.

#### Value

- brief— Display brief information.

**Default**—normal

### Required Privilege Level

view

### Output Tag

[redir-statistics](#)

## SRC Admission Control Plug-In (SRC ACP) Operational Tag Elements

[Table 22](#) lists the SRC CLI operational mode commands that have corresponding SRC XML request tag elements in the current version of the SRC software, and maps each command to its request tag element. CLI commands are listed in alphabetical order.

For a list of mappings organized alphabetically by request tag element name, see [Table 23](#). For more information about CLI commands, see the *SRC PE CLI Command Reference*.

For a list of response tag elements, see [Table 24](#).

Table 22: Mapping of SRC ACP CLI Commands to Operational Tag Elements

CLI Command	Request Tag Element
request acp reorganize-backup-database	request-acp-reorganize-backup-database
show acp backbone congestion-point congestion-point-expression	get-acp-backbone-congestion-point-congestion-point-expression
show acp backbone congestion-point dn	get-acp-backbone-congestion-point-dn
show acp backbone service	get-acp-backbone-service
show acp edge congestion-point dn	get-acp-edge-congestion-point-dn
show acp edge congestion-point subscriber-session-id	get-acp-edge-congestion-point-subscriber-session-id
show acp edge subscriber	get-acp-edge-subscriber
show acp remote-update congestion-point dn	get-acp-remote-update-congestion-point-dn
show acp remote-update congestion-point name	get-acp-remote-update-congestion-point-name
show acp remote-update subscriber	get-acp-remote-update-subscriber
show acp statistics device	get-acp-statistics-device
show acp statistics directory	get-acp-statistics-directory
show acp statistics general	get-acp-statistics-general

[Table 23](#) maps SRC XML operational request tag elements to SRC CLI commands. Tag elements are listed in alphabetical order.

Table 23: Mapping of SRC ACP Operational Tag Elements to CLI Commands

Request Tag Element	CLI Command
<a href="#">get-acp-backbone-congestion-point-congestion-point-expression</a>	show acp backbone congestion-point congestion-point-expression
<a href="#">get-acp-backbone-congestion-point-dn</a>	show acp backbone congestion-point dn
<a href="#">get-acp-backbone-service</a>	show acp backbone service
<a href="#">get-acp-edge-congestion-point-dn</a>	show acp edge congestion-point dn
<a href="#">get-acp-edge-congestion-point-subscriber-session-id</a>	show acp edge congestion-point subscriber-session-id
<a href="#">get-acp-edge-subscriber</a>	show acp edge subscriber
<a href="#">get-acp-remote-update-congestion-point-dn</a>	show acp remote-update congestion-point dn
<a href="#">get-acp-remote-update-congestion-point-name</a>	show acp remote-update congestion-point name
<a href="#">get-acp-remote-update-subscriber</a>	show acp remote-update subscriber
<a href="#">get-acp-statistics-device</a>	show acp statistics device
<a href="#">get-acp-statistics-directory</a>	show acp statistics directory
<a href="#">get-acp-statistics-general</a>	show acp statistics general
<a href="#">request-acp-reorganize-backup-database</a>	request acp reorganize-backup-database

[Table 24](#) lists the SRC XML operational response tag elements. Tag elements are listed in alphabetical order.

Table 24: Operational Response Tag Elements

Response Tag Element
<a href="#">acp-data-manager-m-i-impl</a>
<a href="#">acp-m-i-impl</a>
<a href="#">acp-virtual-router-m-i-impl</a>
<a href="#">b-b-service</a>
<a href="#">b-b-services</a>
<a href="#">congestion-point-context</a>
<a href="#">intf</a>
<a href="#">intfs</a>

<a href="#">redundant-state</a>
<a href="#">service-session</a>
<a href="#">user-info</a>
<a href="#">user-profile</a>
<a href="#">user-remote-update</a>
<a href="#">user</a>

## <get-acp-backbone-congestion-point-congestion-point-expression>

### Usage

```
<rpc>
  <get-acp-backbone-congestion-point-congestion-point-expression>
    <slot> slot </slot>
    <virtual-router-name> virtual-router-name </virtual-router-name>
    <service-name> service-name </service-name>
    <interface-name> interface-name </interface-name>
    <interface-description> interface-description </interface-description>
    <interface-alias> interface-alias </interface-alias>
    <nas-port-id> nas-port-id </nas-port-id>
    <style> style-choice </style>
  </get-acp-backbone-congestion-point-congestion-point-expression>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display congestion point by service congestion point expression.

### Contents

<slot>— (Optional) Number of the slot for which you want to configure values.

**Value**— Currently, the chassis has only one slot. The valid value is 0.

**Default**—0

<virtual-router-name>— (Optional) Name of virtual router from which to list congestion points.

**Value**— Virtual router name

**Default**— No value

<service-name>— (Optional) Name of service used by backbone service to generate congestion points.

**Value**— Service name

**Default**— No value

`<interface-name>`— (Optional) Name of interface related to congestion points.

**Value**— Interface name

**Default**— No value

`<interface-description>`— (Optional) Description of interface used by backbone service to generate congestion points.

**Value**— Interface description

**Default**— No value

`<interface-alias>`— (Optional) Interface alias used by backbone service to generate congestion points.

**Value**— Interface alias

**Default**— No value

`<nas-port-id>`— (Optional) Interface NAS port ID used by backbone service to generate congestion points.

**Value**— NAS port ID

**Default**— No value

`<style>`— (Optional) Output style.

**Value**

- `brief`— Display congestion point attributes.

**Default**— `detail`

## Required Privilege Level

view

## Output Tag

[intf](#)

## <get-acp-backbone-congestion-point-dn>

### Usage

```
<rpc>
  <get-acp-backbone-congestion-point-dn>
    <slot> slot </slot>
    <congestion-point-dn> congestion-point-dn </congestion-point-dn>
    <virtual-router-name> virtual-router-name </virtual-router-name>
    <style> style-choice </style>
  </get-acp-backbone-congestion-point-dn>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display congestion point by DN.

### Contents

<slot>— (Optional) Number of the slot for which you want to configure values.

**Value**— Currently, the chassis has only one slot. The valid value is 0.

**Default**—0

<congestion-point-dn>— (Optional) DN of congestion point for which you want to list all matching congestion points.

**Value**— All or part of the congestion point DN.

**Default**— No value

<virtual-router-name>— (Optional) Name of virtual router from which to list congestion points.

**Value**— Virtual router name

**Default**— No value

<style>— (Optional) Output style.

**Value**



- **brief**— Display congestion point DN.

**Default**—detail

### Required Privilege Level

view

## <get-acp-backbone-service>

### Usage

```
<rpc>
  <get-acp-backbone-service>
    <slot> slot </slot>
    <virtual-router-name> virtual-router-name </virtual-router-name>
    <service-name> service-name </service-name>
    <style> style-choice </style>
  </get-acp-backbone-service>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display information about services that SRC-ACP manages in the backbone network.

### Contents

<slot>— (Optional) Number of the slot for which you want to configure values.

**Value**— Currently, the chassis has only one slot. The valid value is 0.

**Default**—0

<virtual-router-name>— (Optional) Name of virtual router from which to list backbone services.

**Value**— Virtual router name

**Default**— No value

<service-name>— (Optional) Name of service used by backbone service to generate congestion points.

**Value**— Service name

**Default**— No value

<style>— (Optional) Output style.

**Value**

- `brief`— Display backbone service attributes.

**Default**—detail

**Required Privilege Level**

view

**Output Tag**

[service](#)

## <get-acp-edge-congestion-point-dn>

### Usage

```
<rpc>
  <get-acp-edge-congestion-point-dn>
    <slot> slot </slot>
    <congestion-point-dn> congestion-point-dn </congestion-point-dn>
    <instance-id> instance-id </instance-id>
    <virtual-router-name> virtual-router-name </virtual-router-name>
    <style> style-choice </style>
    <maximum-results> maximum-results </maximum-results>
  </get-acp-edge-congestion-point-dn>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display congestion point by DN.

### Contents

<slot>— (Optional) Number of the slot for which you want to configure values.

**Value**— Currently, the chassis has only one slot. The valid value is 0.

**Default**—0

<congestion-point-dn>— (Optional) DN of congestion point for which you want to list all matching congestion points.

**Value**— All or part of the congestion point DN.

**Default**— No value

<instance-id>— (Optional) Name of an instance generated for a congestion point that is automatically created.

**Value**— All or part of the congestion point instance ID.

**Default**— No value

<virtual-router-name>— (Optional) Name of virtual router from which to list congestion

points.

**Value**— Virtual router name

**Default**— No value

`<style>`— (Optional) Output style.

**Value**

- `brief`— Display congestion point DN.

**Default**—detail

`<maximum-results>`— (Optional) Number of results to be displayed.

**Value**—Integer in the range 1-2147483647

**Default**— 25

#### Required Privilege Level

view

#### Output Tag

[intf](#)

## <get-acp-edge-congestion-point-subscriber-session-id>

### Usage

```
<rpc>
  <get-acp-edge-congestion-point-subscriber-session-id>
    <slot> slot </slot>
    <session-id> session-id </session-id>
    <virtual-router-name> virtual-router-name </virtual-router-name>
    <style> style-choice </style>
    <maximum-results> maximum-results </maximum-results>
  </get-acp-edge-congestion-point-subscriber-session-id>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display congestion point by subscriber session ID.

### Contents

<slot>— (Optional) Number of the slot for which you want to configure values.

**Value**— Currently, the chassis has only one slot. The valid value is 0.

**Default**—0

<session-id>— (Optional) Subscriber session ID for which you want to list all matching congestion points.

**Value**— All or part of the subscriber session ID.

**Default**— No value

<virtual-router-name>— (Optional) Name of virtual router from which to list congestion points.

**Value**— Virtual router name

**Default**— No value

<style>— (Optional) Output style.

**Value**

- **brief**— Display congestion point attributes.

**Default**—detail

**<maximum-results>**— (Optional) Number of results to be displayed.

**Value**—Integer in the range 1–2147483647

**Default**— 25

**Required Privilege Level**

view

**Output Tag**

[intf](#)

## <get-acp-edge-subscriber>

### Usage

```
<rpc>
  <get-acp-edge-subscriber>
    <slot> slot </slot>
    <virtual-router-name> virtual-router-name </virtual-router-name>
    <session-id> session-id </session-id>
    <style> style-choice </style>
  </get-acp-edge-subscriber>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display subscriber sessions in the edge network.

### Contents

**<slot>**— (Optional) Number of the slot for which you want to configure values.

**Value**— Currently, the chassis has only one slot. The valid value is 0.

**Default**—0

**<virtual-router-name>**— (Optional) Name of virtual router from which to list subscriber sessions.

**Value**— Virtual router name

**Default**— No value

**<session-id>**— (Optional) Subscriber session ID for which you want to list all matching subscriber sessions.

**Value**— All or part of the subscriber session ID.

**Default**— No value

**<style>**— (Optional) Output style.

**Value**



- `brief`— Display subscriber session attributes.

**Default**—detail

**Required Privilege Level**

view

**Output Tag**

[user](#)

## <get-acp-remote-update-congestion-point-dn>

### Usage

```
<rpc>
  <get-acp-remote-update-congestion-point-dn>
    <slot> slot </slot>
    <congestion-point-dn> congestion-point-dn </congestion-point-dn>
    <style> style-choice </style>
  </get-acp-remote-update-congestion-point-dn>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display congestion point by DN.

### Contents

<slot>— (Optional) Number of the slot for which you want to configure values.

**Value**— Currently, the chassis has only one slot. The valid value is 0.

**Default**—0

<congestion-point-dn>— (Optional) DN of congestion point for which you want to list all matching congestion points.

**Value**— All or part of the congestion point DN.

**Default**— No value

<style>— (Optional) Output style.

#### Value

- **brief**— Display congestion point DN.

**Default**—detail

### Required Privilege Level

view

### **Output Tag**

[congestion-point-context](#)

## <get-acp-remote-update-congestion-point-name>

### Usage

```
<rpc>
  <get-acp-remote-update-congestion-point-name>
    <slot> slot </slot>
    <device-name> device-name </device-name>
    <interface-name> interface-name </interface-name>
    <style> style-choice </style>
  </get-acp-remote-update-congestion-point-name>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display congestion point by interface name.

### Contents

<slot>— (Optional) Number of the slot for which you want to configure values.

**Value**— Currently, the chassis has only one slot. The valid value is 0.

**Default**—0

<device-name>— (Optional) Device name of the congestion point.

**Value**— Device name

**Default**— No value

<interface-name>— (Optional) Interface name of the congestion point.

**Value**— Interface name

**Default**— No value

<style>— (Optional) Output style.

**Value**

- `brief`— Display congestion point DN.

**Default**—detail

**Required Privilege Level**

view

**Output Tag**

[congestion-point-context](#)

## <get-acp-remote-update-subscriber>

### Usage

```
<rpc>
  <get-acp-remote-update-subscriber>
    <slot> slot </slot>
    <device-name> device-name </device-name>
    <nas-port-id> nas-port-id </nas-port-id>
    <nas-ip> nas-ip </nas-ip>
    <subscriber-ip> subscriber-ip </subscriber-ip>
    <phone> phone </phone>
    <style> style-choice </style>
  </get-acp-remote-update-subscriber>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display information about subscribers added through an external application.

### Contents

<slot>— (Optional) Number of the slot for which you want to configure values.

**Value**— Currently, the chassis has only one slot. The valid value is 0.

**Default**—0

<device-name>— (Optional) Device name connected to subscriber.

**Value**— Device name

**Default**— No value

<nas-port-id>— (Optional) NAS port ID of interface connected to subscriber.

**Value**— NAS port ID

**Default**— No value

<nas-ip>— (Optional) NAS IP address of device connected to subscriber.

**Value**— IP address

**Default**— No value

<subscriber-ip>— (Optional) Subscriber IP address.

**Value**— IP address

**Default**— No value

<phone>— (Optional) Subscriber phone number.

**Value**— Phone number

**Default**— No value

<style>— (Optional) Output style.

**Value**

- brief— Display congestion point DN.

**Default**—detail

### Required Privilege Level

view

### Output Tag

[user-remote-update](#)

## <get-acp-statistics-device>

### Usage

```
<rpc>
  <get-acp-statistics-device>
    <filter> filter </filter>
    <style> style-choice </style>
  </get-acp-statistics-device>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display SNMP information for each device.

### Contents

**<filter>**— (Optional) Name of the device.

**Value**— All or part of the device name.

**Default**— No value

**<style>**— (Optional) Output style.

#### Value

- **brief**— Display only device names.

**Default**—detail

### Required Privilege Level

view

### Output Tag

[acp-virtual-router-impl](#)



## **<get-acp-statistics-directory>**

### **Usage**

```
<rpc>  
  <get-acp-statistics-directory>  
  </get-acp-statistics-directory>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 1.0.0

### **Description**

Display directory SNMP information.

### **Required Privilege Level**

view

### **Output Tag**

[acp-data-manager-impl](#)

## <get-acp-statistics-general>

### Usage

```
<rpc>  
  <get-acp-statistics-general>  
  </get-acp-statistics-general>  
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Display SRC-ACP SNMP information.

### Required Privilege Level

view

### Output Tag

[acp-impl](#)

## <request-acp-reorganize-backup-database>

### Usage

```
<rpc>
  <request-acp-reorganize-backup-database>
    <slot> slot </slot>
  </request-acp-reorganize-backup-database>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Reorganize the files that contain SRC-ACP data about subscribers, services, and congestion points. This action reduces the sizes of these files.

### Contents

<slot>— (Optional) Number of the slot for which you want to configure values.

**Value**— Currently, the chassis has only one slot. The valid value is 0.

**Default**—0

### Required Privilege Level

maintenance

## <acp-data-manager-m-i-impl>

### Usage

```
< acp-data-manager-m-i-impl xmlns= "http://xml.juniper.net/sdx/acp-data-manager-m-i-impl">
  < number-congestion-point-object-read> number-congestion-point-object-read < /number-congestion-point-object-read>
  < number-congestion-point-profile-read> number-congestion-point-profile-read < /number-congestion-point-profile-read>
  < number-congestion-point-read> number-congestion-point-read < /number-congestion-point-read>
  < number-service-read> number-service-read < /number-service-read>
  < number-users-read> number-users-read < /number-users-read>
< /acp-data-manager-m-i-impl>
```

### Description

ACP Data Manager SNMP information

### Contents

< number-congestion-point-object-read> —Number Of Congestion Point Object Read

**Value**—Integer in the range -2147483648–2147483647

< number-congestion-point-profile-read> —Number Of Congestion Point Profile Read

**Value**—Integer in the range -2147483648–2147483647

< number-congestion-point-read> —Number Of Congestion Point Read

**Value**—Integer in the range -2147483648–2147483647

< number-service-read> —Number Of Service Read

**Value**—Integer in the range -2147483648–2147483647

< number-users-read> —Number of Users Read

**Value**—Integer in the range -2147483648–2147483647

## <acp-m-i-impl>

### Usage

```
< acp-m-i-impl xmlns= "http://xml.juniper.net/sdx/acp-m-i-impl">
  < heap-limit> heap-limit </heap-limit>
  < heap-used> heap-used </heap-used>
  < master> master </master>
  < number-congestion-point-remote-update> number-congestion-point-remote-update </number-congestion-point-remote-update>
  < number-congestion-points> number-congestion-points </number-congestion-points>
  < number-filtered-remote-update> number-filtered-remote-update </number-filtered-remote-update>
  < number-ignored-tracking-events> number-ignored-tracking-events </number-ignored-tracking-events>
  < number-interface-tracking-events> number-interface-tracking-events </number-interface-tracking-events>
  < number-out-of-Sync> number-out-of-Sync </number-out-of-Sync>
  < number-ready-to-sync> number-ready-to-sync </number-ready-to-sync>
  < number-sync-complete> number-sync-complete </number-sync-complete>
  < number-sync-events> number-sync-events </number-sync-events>
  < number-threads> number-threads </number-threads>
  < number-user-remote-update> number-user-remote-update </number-user-remote-update>
  < number-virtual-routers> number-virtual-routers </number-virtual-routers>
  < up-time> up-time </up-time>
< /acp-m-i-impl>
```

### Description

ACP general SNMP information

### Contents

< heap-limit> —Java Heap Limitation

**Value**—Integer in the range -2147483648–2147483647

< heap-used> —Java Heap Usage

**Value**—Integer in the range -2147483648–2147483647

< master> —Role In Redundancy Master/Slave

**Value**—Integer in the range -2147483648–2147483647

< number-congestion-point-remote-update> —Number Of Congestion Point Remote Update

**Value**—Integer in the range -2147483648–2147483647

< number-congestion-points> —Number Of Congestion Points

**Value**—Integer in the range -2147483648–2147483647

< number-filtered-remote-update> —Number Of remote update being filtered

**Value**—Integer in the range -2147483648–2147483647

< number-ignored-tracking-events> —Number Of Ignored Tracking Events

**Value**—Integer in the range -2147483648–2147483647

< number-interface-tracking-events> —Number Of Interface Tracking Events

**Value**—Integer in the range -2147483648–2147483647

< number-out-of-Sync> —Number Of Out Of Synchronization

**Value**—Integer in the range -2147483648–2147483647

< number-ready-to-sync> —Number Of Ready To Synchronization Event

**Value**—Integer in the range -2147483648–2147483647

< number-sync-complete> —Number Of Synchronization Complete Event

**Value**—Integer in the range -2147483648–2147483647

< number-sync-events> —Number Of Synchronization Event

**Value**—Integer in the range -2147483648–2147483647

< number-threads> —Number of Threads

**Value**—Integer in the range -2147483648–2147483647

< number-user-remote-update> —Number Of User Remote Update

**Value**—Integer in the range -2147483648–2147483647

< number-virtual-routers> —Number Of Virtual Routers

**Value**—Integer in the range -2147483648–2147483647

< up-time> —Up Time

**Value**—Integer in the range -2147483648–2147483647

## <acp-virtual-router-m-i-impl>

### Usage

```
< acp-virtual-router-m-i-impl xmlns= "http://xml.juniper.net/sdx/acp-virtual-router-m-i-impl">
  < interim-service-event-handleTime> interim-service-event-handleTime < /interim-service-event-handleTime>
  < number-backbone-service> number-backbone-service < /number-backbone-service>
  < number-deny-activation> number-deny-activation < /number-deny-activation>
  < number-grant-activation> number-grant-activation < /number-grant-activation>
  < number-interim-service-events-received> number-interim-service-events-received < /number-interim-service-events-received>
  < number-service-auth-events-received> number-service-auth-events-received < /number-service-auth-events-received>
  < number-service-session> number-service-session < /number-service-session>
  < number-start-service-events-received> number-start-service-events-received < /number-start-service-events-received>
  < number-start-user-events-received> number-start-user-events-received < /number-start-user-events-received>
  < number-stop-user-events-received> number-stop-user-events-received < /number-stop-user-events-received>
  < number-user-session> number-user-session < /number-user-session>
  < start-service-event-handleTime> start-service-event-handleTime < /start-service-event-handleTime>
  < start-user-event-handleTime> start-user-event-handleTime < /start-user-event-handleTime>
  < stop-service-event-handleTime> stop-service-event-handleTime < /stop-service-event-handleTime>
  < stop-user-event-handleTime> stop-user-event-handleTime < /stop-user-event-handleTime>
  < virtual-router-name> virtual-router-name < /virtual-router-name>
< /acp-virtual-router-m-i-impl>
```

### Description

ACP Virtual Router SNMP information

### Contents

< interim-service-event-handleTime> —Time Handling Interim Service Events

**Value**—Integer in the range -2147483648–2147483647

< number-backbone-service> —Number Of Backbone Services

**Value**—Integer in the range -2147483648–2147483647

< number-deny-activation> —Number Of Service Activation Denies

**Value**—Integer in the range -2147483648–2147483647

< number-grant-activation> —Number Of Service Activation Granted

**Value**—Integer in the range -2147483648–2147483647



< number-interim-service-events-received> —Number Of Interim Service Tracking Event Received

**Value**—Integer in the range -2147483648–2147483647

< number-service-auth-events-received> —Number Of Service Authentication Events Received

**Value**—Integer in the range -2147483648–2147483647

< number-service-session> —Number Of Service Sessions

**Value**—Integer in the range -2147483648–2147483647

< number-start-service-events-received> —Number Of Start Service Tracking Events Received

**Value**—Integer in the range -2147483648–2147483647

< number-start-user-events-received> —Number Of Start User Tracking Events Received

**Value**—Integer in the range -2147483648–2147483647

< number-stop-user-events-received> —Number Of Stop User Tracking Events Received

**Value**—Integer in the range -2147483648–2147483647

< number-user-session> —Number Of User Sessions

**Value**—Integer in the range -2147483648–2147483647

< start-service-event-handleTime> —Time Handling Start Service Events

**Value**—Integer in the range -2147483648–2147483647

< start-user-event-handleTime> —Time Handling Start User Events

**Value**—Integer in the range -2147483648–2147483647

< stop-service-event-handleTime> —Time Handling Stop Service Events

**Value**—Integer in the range -2147483648–2147483647

< stop-user-event-handleTime> —Time Handling Stop User Events

**Value**—Integer in the range -2147483648–2147483647

< virtual-router-name> —Virtual Router Name

**Value**—Text

## Style

### brief

< virtual-router-name>

### detail

< interim-service-event-handleTime>  
 < number-backbone-service>  
 < number-deny-activation>  
 < number-grant-activation>  
 < number-interim-service-events-received>  
 < number-service-auth-events-received>  
 < number-service-session>  
 < number-start-service-events-received>  
 < number-start-user-events-received>  
 < number-stop-user-events-received>  
 < number-user-session>  
 < start-service-event-handleTime>  
 < start-user-event-handleTime>  
 < stop-service-event-handleTime>  
 < stop-user-event-handleTime>  
 < virtual-router-name>

## <b-b-service>

### Usage

```
< b-b-service xmlns= "http://xml.juniper.net/sdx/b-b-service">
  < congestion-point> congestion-point </congestion-point>
  < name> name </name>
  < provisioned-downstream-bandwidth> provisioned-downstream-bandwidth </provisioned-downstream-bandwidth>
  < provisioned-upstream-bandwidth> provisioned-upstream-bandwidth </provisioned-upstream-bandwidth>
  < service-session xmlns= "http://xml.juniper.net/sdx/service-session"> ... </service-session>
< /b-b-service>
```

### Description

#### Backbone Service Information

### Contents

< congestion-point> —Congestion Point

**Value**—Text

< name> —Backbone service name

**Value**—Text

< provisioned-downstream-bandwidth> —Provisioned downstream bandwidth [kbps]

**Value**—Integer in the range -2147483648–2147483647

< provisioned-upstream-bandwidth> —Provisioned upstream bandwidth [kbps]

**Value**—Integer in the range -2147483648–2147483647

< service-session>

Multiple tag: can occur zero or more times.

[service-session](#)

### Style

## **brief**

```
< name>  
< provisioned-downstream-bandwidth>  
< provisioned-upstream-bandwidth>
```

## **detail**

```
< congestion-point>  
< name>  
< provisioned-downstream-bandwidth>  
< provisioned-upstream-bandwidth>  
< service-session>
```

## <b-b-services>

### Usage

```
< b-b-services xmlns= "http://xml.juniper.net/sdx/b-b-services">
  < b-b-service xmlns= "http://xml.juniper.net/sdx/b-b-service"> ... < /b-b-service>
< /b-b-services>
```

### Contents

< b-b-service>

Multiple tag: can occur zero or more times.

[b-b-service](#)

### Style

#### **brief**

< b-b-service>

#### **detail**

< b-b-service>

## <congestion-point-context>

### Usage

```
< congestion-point-context xmlns= "http://xml.juniper.net/sdx/congestion-point-context">
  < current-downstream-bandwidth> current-downstream-bandwidth < /current-downstream-bandwidth>
  < current-upstream-bandwidth> current-upstream-bandwidth < /current-upstream-bandwidth>
  < device-name> device-name < /device-name>
  < dn> dn < /dn>
  < name> name < /name>
  < state> state < /state>
  < update-timestamp> update-timestamp < /update-timestamp>
< /congestion-point-context>
```

### Description

Congestion point remote update information

### Contents

< current-downstream-bandwidth> —Current downstream bandwidth [kpbs]

**Value**—Integer in the range -2147483648–2147483647

< current-upstream-bandwidth> —Current upstream bandwidth [kpbs]

**Value**—Integer in the range -2147483648–2147483647

< device-name> —Network device name

**Value**—Text

< dn> —Congestion point DN

**Value**—Text

< name> —Congestion point name

**Value**—Text

< state> —Congestion point state

**Value**—Text

< update-timestamp> —Update timestamp

**Value**—Text

## Style

### brief

< device-name>  
< dn>  
< name>

### detail

< current-downstream-bandwidth>  
< current-upstream-bandwidth>  
< device-name>  
< dn>  
< name>  
< state>  
< update-timestamp>

## <intf>

### Usage

```

< intf xmlns= "http://xml.juniper.net/sdx/intf">
  < background-downstream-bandwidth> background-downstream-bandwidth < /background-downstream-bandwidth>
  < background-upstream-bandwidth> background-upstream-bandwidth < /background-upstream-bandwidth>
  < current-downstream-bandwidth> current-downstream-bandwidth < /current-downstream-bandwidth>
  < current-upstream-bandwidth> current-upstream-bandwidth < /current-upstream-bandwidth>
  < dn> dn < /dn>
  < downstream-bandwidth-usage> downstream-bandwidth-usage < /downstream-bandwidth-usage>
  < instance-id> instance-id < /instance-id>
  < name> name < /name>
  < provisioned-downstream-bandwidth> provisioned-downstream-bandwidth < /provisioned-downstream-bandwidth>
  < provisioned-upstream-bandwidth> provisioned-upstream-bandwidth < /provisioned-upstream-bandwidth>
  < upstream-bandwidth-usage> upstream-bandwidth-usage < /upstream-bandwidth-usage>
< /intf>

```

### Description

#### Congestion Point Information

#### Contents

< background-downstream-bandwidth> —Downstream background bandwidth

**Value**—Text

< background-upstream-bandwidth> —Upstream background bandwidth

**Value**—Text

< current-downstream-bandwidth> —Downstream current bandwidth

**Value**—Text

< current-upstream-bandwidth> —Upstream current bandwidth

**Value**—Text

< dn> —DN

**Value**—Text



< downstream-bandwidth-usage> —Downstream bandwidth in use

**Value**—Text

< instance-id> —Instance ID

**Value**—Text

< name> —Congestion point name

**Value**—Text

< provisioned-downstream-bandwidth> —Downstream provisioned bandwidth

**Value**—Text

< provisioned-upstream-bandwidth> —Upstream provisioned bandwidth

**Value**—Text

< upstream-bandwidth-usage> —Upstream bandwidth in use

**Value**—Text

## Style

### brief

< dn>  
< instance-id>  
< name>

### detail

< background-downstream-bandwidth>  
< background-upstream-bandwidth>  
< current-downstream-bandwidth>  
< current-upstream-bandwidth>  
< dn>  
< downstream-bandwidth-usage>  
< instance-id>

< name>  
< provisioned-downstream-bandwidth>  
< provisioned-upstream-bandwidth>  
< upstream-bandwidth-usage>

## <intfs>

### Usage

```
< intfs xmlns= "http://xml.juniper.net/sdx/intfs">
  < intf xmlns= "http://xml.juniper.net/sdx/intf"> ... < /intf>
< /intfs>
```

### Contents

< intf>

Multiple tag: can occur zero or more times.  
[intf](#)

### Style

#### brief

< intf>

#### detail

< intf>

## <redundant-state>

### Usage

```
< redundant-state xmlns= "http://xml.juniper.net/sdx/redundant-state">
  < enabled> enabled < /enabled>
  < remote-ior> remote-ior < /remote-ior>
  < remote-state> remote-state < /remote-state>
  < state> state < /state>
  < sync-queue-size> sync-queue-size < /sync-queue-size>
  < vr-sync-states> vr-sync-states < /vr-sync-states>
< /redundant-state>
```

### Contents

< enabled> —Redundancy enabled

**Value**—Boolean

< remote-ior> —Remote ACP IOR

**Value**—Text

< remote-state> —Remote ACP state

**Value**—Text

< state> —Local ACP state

**Value**—Text

< sync-queue-size> —Synchronization queue size

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< vr-sync-states> —Synchronization state per virtual router

**Value**—Text

## <service-session>

### Usage

```
< service-session xmlns= "http://xml.juniper.net/sdx/service-session">
  < redundancy-state> redundancy-state < /redundancy-state>
  < required-downstream-bandwidth> required-downstream-bandwidth < /required-downstream-bandwidth>
  < required-upstream-bandwidth> required-upstream-bandwidth < /required-upstream-bandwidth>
  < session-id> session-id < /session-id>
< /service-session>
```

### Description

#### Service Session Information

### Contents

< redundancy-state> —State for redundancy

**Value**—Text

< required-downstream-bandwidth> —Required downstream bandwidth [kpbs]

**Value**—Integer in the range -2147483648–2147483647

< required-upstream-bandwidth> —Required upstream bandwidth [kbps]

**Value**—Integer in the range -2147483648–2147483647

< session-id> —Accounting session ID

**Value**—Text

## <user-info>

### Usage

```
< user-info xmlns= "http://xml.juniper.net/sdx/user-info">
  < nas-ip-address> nas-ip-address < /nas-ip-address>
  < nas-port-id> nas-port-id < /nas-port-id>
  < session-id> session-id < /session-id>
  < user-ip-address> user-ip-address < /user-ip-address>
  < virtual-router> virtual-router < /virtual-router>
< /user-info>
```

### Description

User Information from tracking event

### Contents

< nas-ip-address> —NAS IP address

**Value**—Text

< nas-port-id> —NAS port ID

**Value**—Text

< session-id> —User session ID

**Value**—Text

< user-ip-address> —User IP address

**Value**—Text

< virtual-router> —Virtual router name

**Value**—Text

## <user-profile>

### Usage

```
< user-profile xmlns= "http://xml.juniper.net/sdx/user-profile">
  < phone> phone < /phone>
  < provisioned-downstream-bandwidth> provisioned-downstream-bandwidth < /provisioned-downstream-bandwidth>
  < provisioned-upstream-bandwidth> provisioned-upstream-bandwidth < /provisioned-upstream-bandwidth>
< /user-profile>
```

### Description

#### User Information

#### Contents

< phone> —Phone in user profile

**Value**—Text

< provisioned-downstream-bandwidth> —Provisioned downstream bandwidth [kbps]

**Value**—Integer in the range -2147483648–2147483647

< provisioned-upstream-bandwidth> —Provisioned upstream bandwidth [kbps]

**Value**—Integer in the range -2147483648–2147483647

## <user-remote-update>

### Usage

```
< user-remote-update xmlns= "http://xml.juniper.net/sdx/user-remote-update">
  < current-downstream-bandwidth> current-downstream-bandwidth < /current-downstream-bandwidth>
  < current-upstream-bandwidth> current-upstream-bandwidth < /current-upstream-bandwidth>
  < device-name> device-name < /device-name>
  < nas-ip-address> nas-ip-address < /nas-ip-address>
  < nas-port-id> nas-port-id < /nas-port-id>
  < phone> phone < /phone>
  < update-timestamp> update-timestamp < /update-timestamp>
  < user-ip-address> user-ip-address < /user-ip-address>
< /user-remote-update>
```

### Description

User remote update information

### Contents

< current-downstream-bandwidth> —Current downstream bandwidth [kpbs]

**Value**—Integer in the range -2147483648–2147483647

< current-upstream-bandwidth> —Current upstream bandwidth [kpbs]

**Value**—Integer in the range -2147483648–2147483647

< device-name> —Network device name

**Value**—Text

< nas-ip-address> —NAS IP address

**Value**—Text

< nas-port-id> —NAS port ID

**Value**—Text

< phone> —Phone



**Value**—Text

< update-timestamp> —Update timestamp

**Value**—Text

< user-ip-address> —User IP address

**Value**—Text

## Style

### brief

< device-name>  
 < nas-ip-address>  
 < nas-port-id>  
 < phone>

### detail

< current-downstream-bandwidth>  
 < current-upstream-bandwidth>  
 < device-name>  
 < nas-ip-address>  
 < nas-port-id>  
 < phone>  
 < update-timestamp>

## <user>

### Usage

```

< user xmlns= "http://xml.juniper.net/sdx/user">
  < current-downstream-bandwidth> current-downstream-bandwidth < /current-downstream-bandwidth>
  < current-upstream-bandwidth> current-upstream-bandwidth < /current-upstream-bandwidth>
  < dn> dn < /dn>
  < downstream-bandwidth-usage> downstream-bandwidth-usage < /downstream-bandwidth-usage>
  < name> name < /name>
  < phone> phone < /phone>
  < redundancy-state> redundancy-state < /redundancy-state>
  < service-session xmlns= "http://xml.juniper.net/sdx/service-session"> ... < /service-session>
  < upstream-bandwidth-usage> upstream-bandwidth-usage < /upstream-bandwidth-usage>
  < user-info xmlns= "http://xml.juniper.net/sdx/user-info"> ... < /user-info>
  < user-profile xmlns= "http://xml.juniper.net/sdx/user-profile"> ... < /user-profile>
< /user>

```

### Description

#### User Session Information

#### Contents

< current-downstream-bandwidth> —Current downstream bandwidth [kpbs]

**Value**—Integer in the range -2147483648–2147483647

< current-upstream-bandwidth> —Current upstream bandwidth [kpbs]

**Value**—Integer in the range -2147483648–2147483647

< dn> —User DN

**Value**—Text

< downstream-bandwidth-usage> —Downstream bandwidth usage [kpbs]

**Value**—Integer in the range -2147483648–2147483647

< name> —User name

**Value**—Text

< phone> —User phone

**Value**—Text

< redundancy-state> —State for redundancy

**Value**—Text

< service-session>

Multiple tag: can occur zero or more times.  
[service-session](#)

< upstream-bandwidth-usage> —Upstream bandwidth usage [kpbs]

**Value**—Integer in the range -2147483648–2147483647

< user-info>

[user-info](#)

< user-profile>

[user-profile](#)

## Style

### brief

< dn>  
 < name>

### detail

< current-downstream-bandwidth>  
 < current-upstream-bandwidth>  
 < dn>  
 < downstream-bandwidth-usage>  
 < name>  
 < phone>

- < redundancy-state>
- < service-session>
- < upstream-bandwidth-usage>
- < user-info>
- < user-profile>

## External Subscriber Monitor Operational Tag Elements

[Table 25](#) lists the SRC CLI operational mode commands that have corresponding SRC XML request tag elements in the current version of the SRC software, and maps each command to its request tag element. CLI commands are listed in alphabetical order.

For a list of mappings organized alphabetically by request tag element name, see [Table 26](#). For more information about CLI commands, see the *SRC PE CLI Command Reference*.

For a list of response tag elements, see [Table 27](#).

Table 25: Mapping of External Subscriber Monitor CLI Commands to Operational Tag Elements

CLI Command	Request Tag Element
show external-subscriber-monitor statistics event-notifications	get-monAgent-statistics-event-notifications
show external-subscriber-monitor statistics process	get-monAgent-statistics-process
show external-subscriber-monitor statistics radius-accounting	get-radius
show external-subscriber-monitor statistics radius-authorization	get-radius-authorization

[Table 26](#) maps SRC XML operational request tag elements to SRC CLI commands. Tag elements are listed in alphabetical order.

Table 26: Mapping of External Subscriber Monitor Operational Tag Elements to CLI Commands

Request Tag Element	CLI Command
<a href="#">get-monAgent-statistics-event-notifications</a>	show external-subscriber-monitor statistics event-notifications
<a href="#">get-monAgent-statistics-process</a>	show external-subscriber-monitor statistics process
<a href="#">get-radius</a>	show external-subscriber-monitor statistics radius-accounting
<a href="#">get-radius-authorization</a>	show external-subscriber-monitor statistics radius-authorization

[Table 27](#) lists the SRC XML operational response tag elements. Tag elements are listed in alphabetical order.

Table 27: Operational Response Tag Elements

Response Tag Element
<a href="#">notification-stat</a>

<a href="#">process-stat</a>
<a href="#">radius-auth-client-stat</a>
<a href="#">radius-auth-stat</a>
<a href="#">radius-client-stat</a>
<a href="#">radius-stat</a>

## <get-monAgent-statistics-event-notifications>

### Usage

```
<rpc>  
  <get-monAgent-statistics-event-notifications>  
  </get-monAgent-statistics-event-notifications>  
</rpc>
```

### Release Information

Command introduced in SRC Release 3.0.0

### Description

Display statistics about event notifications, including the number of ipUp and ipDown notifications sent.

### Required Privilege Level

view

### Output Tag

[notification-stat](#)

## **<get-monAgent-statistics-process>**

### **Usage**

```
<rpc>  
  <get-monAgent-statistics-process>  
  </get-monAgent-statistics-process>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 3.0.0

### **Description**

Display process information for External Subscriber Monitor, including up time and memory usage.

### **Required Privilege Level**

view

### **Output Tag**

[process-stat](#)



## <get-radius>

### Usage

```
<rpc>
  <get-radius>
    <client-address> client-address </client-address>
    <style> style-choice </style>
  </get-radius>
</rpc>
```

### Release Information

Command introduced in SRC Release 3.0.0

### Description

Display RADIUS accounting statistics for External Subscriber Monitor.

### Contents

<client-address>— (Optional) IP address of a RADIUS accounting client. If you do not specify a valid client address, statistics for all clients are displayed.

**Value**—Text

**Default**— No value

<style>— (Optional) Output style

**Value**

- **brief**— Display only total number of RADIUS packets sent or received.

**Default**— Detail

### Required Privilege Level

view

### Output Tag

[radius-stat](#)

## <get-radius-authorization>

### Usage

```
<rpc>
  <get-radius-authorization>
    <client-address> client-address </client-address>
    <style> style-choice </style>
  </get-radius-authorization>
</rpc>
```

### Release Information

Command introduced in SRC Release 3.0.0

### Description

Display RADIUS authorization statistics for External Subscriber Monitor.

### Contents

<client-address>— (Optional) IP address of a RADIUS authorization client. If you do not specify a valid client address, statistics for all clients are displayed.

**Value**—Text

**Default**— No value

<style>— (Optional) Output style

**Value**

- **brief**— Display only total number of RADIUS packets sent or received.

**Default**— Detail

### Required Privilege Level

view

### Output Tag

[radius-auth-stat](#)

## <notification-stat>

### Usage

```
< notification-stat xmlns= "http://xml.juniper.net/sdx/notification-stat">
  < number-ip-down> number-ip-down < /number-ip-down>
  < number-ip-down-dropped> number-ip-down-dropped < /number-ip-down-dropped>
  < number-ip-down-queued> number-ip-down-queued < /number-ip-down-queued>
  < number-ip-down-retries> number-ip-down-retries < /number-ip-down-retries>
  < number-ip-down-sent> number-ip-down-sent < /number-ip-down-sent>
  < number-ip-up> number-ip-up < /number-ip-up>
  < number-ip-up-dropped> number-ip-up-dropped < /number-ip-up-dropped>
  < number-ip-up-queued> number-ip-up-queued < /number-ip-up-queued>
  < number-ip-up-retries> number-ip-up-retries < /number-ip-up-retries>
  < number-ip-up-sent> number-ip-up-sent < /number-ip-up-sent>
  < number-nic-lookup-retries> number-nic-lookup-retries < /number-nic-lookup-retries>
< /notification-stat>
```

### Contents

< number-ip-down> —Number of ipDown events

The total number of ipDown including ipDown sent and IpDown queued

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< number-ip-down-dropped> —Number of ipDown dropped

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< number-ip-down-queued> —Number of ipDown queued

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< number-ip-down-retries> —Number of ipDown retries

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< number-ip-down-sent> —Number of ipDown sent

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< number-ip-up> —Number of ipUp events

The total number of ipUp including ipUp sent and IpUp queued

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< number-ip-up-dropped> —Number of ipUp dropped

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< number-ip-up-queued> —Number of ipUp queued

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< number-ip-up-retries> —Number of ipUp retries

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< number-ip-up-sent> —Number of ipUp sent

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< number-nic-lookup-retries> —Number of Nic lookup retries

**Value**—Integer in the range -9223372036854775808–9223372036854775807

## <process-stat>

### Usage

```
< process-stat xmlns= "http://xml.juniper.net/sdx/process-stat">
  < heap-in-use> heap-in-use </heap-in-use>
  < heap-limit> heap-limit </heap-limit>
  < threads> threads </threads>
  < up-time> up-time </up-time>
< /process-stat>
```

### Contents

< heap-in-use> —Heap in use

**Value**—Text

< heap-limit> —heap Limit

**Value**—Text

< threads> —Threads

**Value**—Integer in the range -2147483648–2147483647

< up-time> —Up Time

**Value**—Text

## <radius-auth-client-stat>

### Usage

```
< radius-auth-client-stat xmlns= "http://xml.juniper.net/sdx/radius-auth-client-stat">
  < client-address> client-address </client-address>
  < num-request-per-s> num-request-per-s </num-request-per-s>
  < number-access-accept> number-access-accept </number-access-accept>
  < number-access-reject> number-access-reject </number-access-reject>
  < number-access-req> number-access-req </number-access-req>
  < number-access-req-dropped> number-access-req-dropped </number-access-req-dropped>
  < number-dropped-response> number-dropped-response </number-dropped-response>
</radius-auth-client-stat>
```

### Contents

< client-address> —Client Address

Client Address

**Value**—Text

< num-request-per-s> —Number of access request received per second

**Value**—Integer in the range -2147483648–2147483647

< number-access-accept> —Number of RADIUS access-accept sent

The total number of RADIUS access-accept sent

**Value**—Integer in the range -2147483648–2147483647

< number-access-reject> —Number of RADIUS access-reject sent

The total number of RADIUS access-reject sent

**Value**—Integer in the range -2147483648–2147483647

< number-access-req> —Number of RADIUS access-request received

The Number of received RADIUS access-request

**Value**—Integer in the range -2147483648–2147483647

< number-access-req-dropped> —Number of RADIUS access-request dropped



The total number of dropped RADIUS access-request

**Value**—Integer in the range -2147483648–2147483647

< number-dropped-response> —Number of RADIUS access responses dropped

The total number of dropped response

**Value**—Integer in the range -2147483648–2147483647

## <radius-auth-stat>

### Usage

```
< radius-auth-stat xmlns= "http://xml.juniper.net/sdx/radius-auth-stat">
  < dropped-access-req> dropped-access-req </dropped-access-req>
  < radius-auth-client-stat xmlns= "http://xml.juniper.net/sdx/radius-auth-client-stat"> ... </radius-auth-client-stat>
  < received-access-req> received-access-req </received-access-req>
  < response-discarded-packets> response-discarded-packets </response-discarded-packets>
  < response-sent> response-sent </response-sent>
</radius-auth-stat>
```

### Contents

< dropped-access-req> —Number of RADIUS access-request dropped

**Value**—Integer in the range -2147483648–2147483647

< radius-auth-client-stat>

Multiple tag: can occur zero or more times.

[radius-auth-client-stat](#)

< received-access-req> —Number of RADIUS access-request received

**Value**—Integer in the range -2147483648–2147483647

< response-discarded-packets> —Number of RADIUS access responses dropped

**Value**—Integer in the range -2147483648–2147483647

< response-sent> —Number of RADIUS access responses sent

**Value**—Integer in the range -2147483648–2147483647

### Style

#### brief

```
< dropped-access-req>
< received-access-req>
```

< response-discarded-packets>  
< response-sent>

**detail**

< radius-auth-client-stat>

## <radius-client-stat>

### Usage

```
< radius-client-stat xmlns= "http://xml.juniper.net/sdx/radius-client-stat">
  < client-ip> client-ip </client-ip>
  < num-acct-discarded> num-acct-discarded </num-acct-discarded>
  < number-acct-interim> number-acct-interim </number-acct-interim>
  < number-acct-start> number-acct-start </number-acct-start>
  < number-acct-stop> number-acct-stop </number-acct-stop>
</radius-client-stat>
```

### Contents

< client-ip> —Client Address

Client Address

**Value**—Text

< num-acct-discarded> —Number of accounting request discarded

The total number of discarded requests

**Value**—Integer in the range -2147483648–2147483647

< number-acct-interim> —Number of accounting interim received

The total number of accounting interim request for this client

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< number-acct-start> —Number of accounting start received

The total number of accounting start request for this client

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< number-acct-stop> —Number of accounting stop received

The total number of accounting stop request for this client

**Value**—Integer in the range -9223372036854775808–9223372036854775807

## <radius-stat>

### Usage

```
< radius-stat xmlns= "http://xml.juniper.net/sdx/radius-stat">
  < radius-client-stat xmlns= "http://xml.juniper.net/sdx/radius-client-stat"> ... </radius-client-stat>
  < received-radius-packet> received-radius-packet </received-radius-packet>
  < responded-packets> responded-packets </responded-packets>
< /radius-stat>
```

### Contents

< radius-client-stat>

Multiple tag: can occur zero or more times.  
[radius-client-stat](#)

< received-radius-packet> —Number of received accounting request

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< responded-packets> —Number of sent accounting response

**Value**—Integer in the range -9223372036854775808–9223372036854775807

### Style

#### brief

```
< received-radius-packet>
< responded-packets>
```

#### detail

```
< radius-client-stat>
```



# Dynamic Service Activator Operational Tag Elements

[Table 28](#) lists the SRC CLI operational mode commands that have corresponding SRC XML request tag elements in the current version of the SRC software, and maps each command to its request tag element. CLI commands are listed in alphabetical order.

For a list of mappings organized alphabetically by request tag element name, see [Table 29](#). For more information about CLI commands, see the *SRC PE CLI Command Reference*.

Table 28: Mapping of Dynamic Service Activator CLI Commands to Operational Tag Elements

| CLI Command  | Request Tag Element  |
|--|--|
| show dsa statistics general                                | get-dsa-statistics-general                                 |
| show dsa statistics nic-proxy                              | get-dsa-statistics-nic-proxy                               |
| show dsa statistics soap-operation                         | get-dsa-statistics-soap-operation                          |
| test dsa dsa-service environment clear                     | test-dsa-dsa-service-environment-clear                     |
| test dsa dsa-service environment clear client-id           | test-dsa-dsa-service-environment-clear-client-id           |
| test dsa dsa-service environment clear client-password     | test-dsa-dsa-service-environment-clear-client-password     |
| test dsa dsa-service environment clear subscriber-id       | test-dsa-dsa-service-environment-clear-subscriber-id       |
| test dsa dsa-service environment clear subscriber-password | test-dsa-dsa-service-environment-clear-subscriber-password |
| test dsa dsa-service environment clear subscriber-uri      | test-dsa-dsa-service-environment-clear-subscriber-uri      |
| test dsa dsa-service environment set                       | test-dsa-dsa-service-environment-set                       |
| test dsa dsa-service environment set subscriber-uri        | test-dsa-dsa-service-environment-set-subscriber-uri        |
| test dsa dsa-service environment show                      | test-dsa-dsa-service-environment-show                      |
| test dsa dsa-service environment show client-id            | test-dsa-dsa-service-environment-show-client-id            |
| test dsa dsa-service environment show client-password      | test-dsa-dsa-service-environment-show-client-password      |
| test dsa dsa-service environment show subscriber-id        | test-dsa-dsa-service-environment-show-subscriber-id        |
| test dsa dsa-service environment show subscriber-password  | test-dsa-dsa-service-environment-show-subscriber-password  |
| test dsa dsa-service environment show subscriber-uri       | test-dsa-dsa-service-environment-show-subscriber-uri       |

|  |  |
|--|--|
| test dsa dsa-service invoke-gateway-extension              | test-dsa-dsa-service-invoke-gateway-extension              |
| test dsa dsa-service invoke-script                         | test-dsa-dsa-service-invoke-script                         |
| test dsa dsa-service subscriber-activate-service           | test-dsa-dsa-service-subscriber-activate-service           |
| test dsa dsa-service subscriber-deactivate-service         | test-dsa-dsa-service-subscriber-deactivate-service         |
| test dsa dsa-service subscriber-login                      | test-dsa-dsa-service-subscriber-login                      |
| test dsa dsa-service subscriber-logout                     | test-dsa-dsa-service-subscriber-logout                     |
| test dsa dsa-service subscriber-modify-service             | test-dsa-dsa-service-subscriber-modify-service             |
| test dsa dsa-service subscriber-read-subscription          | test-dsa-dsa-service-subscriber-read-subscription          |
| test dsa dsa-service subscribers-read                      | test-dsa-dsa-service-subscribers-read                      |
| test dsa dsa-service subscribers-read-subscriber           | test-dsa-dsa-service-subscribers-read-subscriber           |
| test dsa pcmm-service commit-resources                     | test-dsa-pcmm-service-commit-resources                     |
| test dsa pcmm-service environment clear                    | test-dsa-pcmm-service-environment-clear                    |
| test dsa pcmm-service environment clear client-id          | test-dsa-pcmm-service-environment-clear-client-id          |
| test dsa pcmm-service environment clear client-password    | test-dsa-pcmm-service-environment-clear-client-password    |
| test dsa pcmm-service environment clear subscriber-address | test-dsa-pcmm-service-environment-clear-subscriber-address |
| test dsa pcmm-service environment clear subscriber-uri     | test-dsa-pcmm-service-environment-clear-subscriber-uri     |
| test dsa pcmm-service environment set                      | test-dsa-pcmm-service-environment-set                      |
| test dsa pcmm-service environment show                     | test-dsa-pcmm-service-environment-show                     |
| test dsa pcmm-service environment show client-id           | test-dsa-pcmm-service-environment-show-client-id           |
| test dsa pcmm-service environment show client-password     | test-dsa-pcmm-service-environment-show-client-password     |
| test dsa pcmm-service environment show subscriber-address  | test-dsa-pcmm-service-environment-show-subscriber-address  |
| test dsa pcmm-service environment show subscriber-uri      | test-dsa-pcmm-service-environment-show-subscriber-uri      |
| test dsa pcmm-service query-available-services             | test-dsa-pcmm-service-query-available-services             |
| test dsa pcmm-service query-contexts                       | test-dsa-pcmm-service-query-contexts                       |
| test dsa pcmm-service release-resources                    | test-dsa-pcmm-service-release-resources                    |



[Table 29](#) maps SRC XML operational request tag elements to SRC CLI commands. Tag elements are listed in alphabetical order.

Table 29: Mapping of Dynamic Service Activator Operational Tag Elements to CLI Commands

| <b>Request Tag Element</b>   | <b>CLI Command</b>   |
|--|--|
| <a href="#">get-dsa-statistics-general</a>                                 | show dsa statistics general                                |
| <a href="#">get-dsa-statistics-nic-proxy</a>                               | show dsa statistics nic-proxy                              |
| <a href="#">get-dsa-statistics-soap-operation</a>                          | show dsa statistics soap-operation                         |
| <a href="#">test-dsa-dsa-service-environment-clear</a>                     | test dsa dsa-service environment clear                     |
| <a href="#">test-dsa-dsa-service-environment-clear-client-id</a>           | test dsa dsa-service environment clear client-id           |
| <a href="#">test-dsa-dsa-service-environment-clear-client-password</a>     | test dsa dsa-service environment clear client-password     |
| <a href="#">test-dsa-dsa-service-environment-clear-subscriber-id</a>       | test dsa dsa-service environment clear subscriber-id       |
| <a href="#">test-dsa-dsa-service-environment-clear-subscriber-password</a> | test dsa dsa-service environment clear subscriber-password |
| <a href="#">test-dsa-dsa-service-environment-clear-subscriber-uri</a>      | test dsa dsa-service environment clear subscriber-uri      |
| <a href="#">test-dsa-dsa-service-environment-set</a>                       | test dsa dsa-service environment set                       |
| <a href="#">test-dsa-dsa-service-environment-set-subscriber-uri</a>        | test dsa dsa-service environment set subscriber-uri        |
| <a href="#">test-dsa-dsa-service-environment-show</a>                      | test dsa dsa-service environment show                      |
| <a href="#">test-dsa-dsa-service-environment-show-client-id</a>            | test dsa dsa-service environment show client-id            |
| <a href="#">test-dsa-dsa-service-environment-show-client-password</a>      | test dsa dsa-service environment show client-password      |
| <a href="#">test-dsa-dsa-service-environment-show-subscriber-id</a>        | test dsa dsa-service environment show subscriber-id        |
| <a href="#">test-dsa-dsa-service-environment-show-subscriber-password</a>  | test dsa dsa-service environment show subscriber-password  |
| <a href="#">test-dsa-dsa-service-environment-show-subscriber-uri</a>       | test dsa dsa-service environment show subscriber-uri       |
| <a href="#">test-dsa-dsa-service-invoke-gateway-extension</a>              | test dsa dsa-service invoke-gateway-extension              |
| <a href="#">test-dsa-dsa-service-invoke-script</a>                         | test dsa dsa-service invoke-script                         |
| <a href="#">test-dsa-dsa-service-subscriber-activate-service</a>           | test dsa dsa-service subscriber-activate-service           |

|  |  |
|--|--|
| <a href="#">test-dsa-dsa-service-subscriber-deactivate-service</a>         | test dsa dsa-service subscriber-deactivate-service         |
| <a href="#">test-dsa-dsa-service-subscriber-login</a>                      | test dsa dsa-service subscriber-login                      |
| <a href="#">test-dsa-dsa-service-subscriber-logout</a>                     | test dsa dsa-service subscriber-logout                     |
| <a href="#">test-dsa-dsa-service-subscriber-modify-service</a>             | test dsa dsa-service subscriber-modify-service             |
| <a href="#">test-dsa-dsa-service-subscriber-read-subscription</a>          | test dsa dsa-service subscriber-read-subscription          |
| <a href="#">test-dsa-dsa-service-subscribers-read</a>                      | test dsa dsa-service subscribers-read                      |
| <a href="#">test-dsa-dsa-service-subscribers-read-subscriber</a>           | test dsa dsa-service subscribers-read-subscriber           |
| <a href="#">test-dsa-pcmm-service-commit-resources</a>                     | test dsa pcmm-service commit-resources                     |
| <a href="#">test-dsa-pcmm-service-environment-clear</a>                    | test dsa pcmm-service environment clear                    |
| <a href="#">test-dsa-pcmm-service-environment-clear-client-id</a>          | test dsa pcmm-service environment clear client-id          |
| <a href="#">test-dsa-pcmm-service-environment-clear-client-password</a>    | test dsa pcmm-service environment clear client-password    |
| <a href="#">test-dsa-pcmm-service-environment-clear-subscriber-address</a> | test dsa pcmm-service environment clear subscriber-address |
| <a href="#">test-dsa-pcmm-service-environment-clear-subscriber-uri</a>     | test dsa pcmm-service environment clear subscriber-uri     |
| <a href="#">test-dsa-pcmm-service-environment-set</a>                      | test dsa pcmm-service environment set                      |
| <a href="#">test-dsa-pcmm-service-environment-show</a>                     | test dsa pcmm-service environment show                     |
| <a href="#">test-dsa-pcmm-service-environment-show-client-id</a>           | test dsa pcmm-service environment show client-id           |
| <a href="#">test-dsa-pcmm-service-environment-show-client-password</a>     | test dsa pcmm-service environment show client-password     |
| <a href="#">test-dsa-pcmm-service-environment-show-subscriber-address</a>  | test dsa pcmm-service environment show subscriber-address  |
| <a href="#">test-dsa-pcmm-service-environment-show-subscriber-uri</a>      | test dsa pcmm-service environment show subscriber-uri      |
| <a href="#">test-dsa-pcmm-service-query-available-services</a>             | test dsa pcmm-service query-available-services             |
| <a href="#">test-dsa-pcmm-service-query-contexts</a>                       | test dsa pcmm-service query-contexts                       |
| <a href="#">test-dsa-pcmm-service-release-resources</a>                    | test dsa pcmm-service release-resources                    |

## <get-dsa-statistics-general>

### Usage

```
<rpc>  
  <get-dsa-statistics-general>  
  </get-dsa-statistics-general>  
</rpc>
```

### Release Information

Command introduced in SRC Release 3.0.0

### Description

Display general information for Dynamic Service Activator.

### Required Privilege Level

view

### Output Tag

[dsa-general-stats](#)

## <get-dsa-statistics-nic-proxy>

### Usage

```
<rpc>  
  <get-dsa-statistics-nic-proxy>  
    <proxy-name> proxy-name </proxy-name>  
  </get-dsa-statistics-nic-proxy>  
</rpc>
```

### Release Information

Command introduced in SRC Release 3.0.0

### Description

Display information about the NIC proxies for Dynamic Service Activator.

### Contents

<proxy-name>— Name of the NIC proxy.

**Value**— NIC proxy name.

**Default**— No value

### Required Privilege Level

view

### Output Tag

[nic-proxy-stats](#)

## <get-dsa-statistics-soap-operation>

### Usage

```
<rpc>  
  <get-dsa-statistics-soap-operation>  
    <operation-name> operation-name </operation-name>  
  </get-dsa-statistics-soap-operation>  
</rpc>
```

### Release Information

Command introduced in SRC Release 3.0.0

### Description

Display information about the SOAP operations for Dynamic Service Activator.

### Contents

<operation-name>— Name of the SOAP operation.

**Value**—Text

### Required Privilege Level

view

### Output Tag

[soap-op-stats](#)

## **<test-dsa-dsa-service-environment-clear>**

### **Usage**

```
<rpc>  
  <test-dsa-dsa-service-environment-clear>  
  </test-dsa-dsa-service-environment-clear>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 3.0.0

### **Description**

Delete Dynamic Service Activator service test settings for the current subscriber session.

### **Required Privilege Level**

maintenance

## <test-dsa-dsa-service-environment-clear-client-id>

### Usage

```
<rpc>  
  <test-dsa-dsa-service-environment-clear-client-id>  
  </test-dsa-dsa-service-environment-clear-client-id>  
</rpc>
```

### Release Information

Command introduced in SRC Release 3.0.0

### Description

Delete test setting for the client ID.

### Required Privilege Level

maintenance

## **<test-dsa-dsa-service-environment-clear-client-password>**

### **Usage**

```
<rpc>  
  <test-dsa-dsa-service-environment-clear-client-password>  
  </test-dsa-dsa-service-environment-clear-client-password>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 3.0.0

### **Description**

Delete test setting for the client password.

### **Required Privilege Level**

maintenance



## **<test-dsa-dsa-service-environment-clear-subscriber-id>**

### **Usage**

```
<rpc>  
  <test-dsa-dsa-service-environment-clear-subscriber-id>  
  </test-dsa-dsa-service-environment-clear-subscriber-id>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 3.0.0

### **Description**

Delete test setting for the subscriber ID.

### **Required Privilege Level**

maintenance

## **<test-dsa-dsa-service-environment-clear-subscriber-password>**

### **Usage**

```
<rpc>  
  <test-dsa-dsa-service-environment-clear-subscriber-password>  
  </test-dsa-dsa-service-environment-clear-subscriber-password>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 3.0.0

### **Description**

Delete test setting for the subscriber password.

### **Required Privilege Level**

maintenance

## <test-dsa-dsa-service-environment-clear-subscriber-uri>

### Usage

```
<rpc>  
  <test-dsa-dsa-service-environment-clear-subscriber-uri>  
  </test-dsa-dsa-service-environment-clear-subscriber-uri>  
</rpc>
```

### Release Information

Command introduced in SRC Release 3.0.0

### Description

Delete test setting for the subscriber type.

### Required Privilege Level

maintenance

## <test-dsa-dsa-service-environment-set>

### Usage

```
<rpc>
  <test-dsa-dsa-service-environment-set>
    <client-id> client-id </client-id>
    <client-password> client-password </client-password>
    <subscriber-id> subscriber-id </subscriber-id>
    <subscriber-password> subscriber-password </subscriber-password>
  </test-dsa-dsa-service-environment-set>
</rpc>
```

### Release Information

Command introduced in SRC Release 3.0.0

### Description

Create Dynamic Service Activator service test settings for the current subscriber session.

### Contents

<client-id>— (Optional) Username for Dynamic Service Activator client.

**Value**—Text

<client-password>— (Optional) Password for Dynamic Service Activator client.

**Value**—Text

<subscriber-id>— (Optional) Username for SAE subscriber.

**Value**—Text

<subscriber-password>— (Optional) Password for SAE subscriber.

**Value**—Text

**Required Privilege Level**

maintenance

## <test-dsa-dsa-service-environment-set-subscriber-uri>

### Usage

```
<rpc>
  <test-dsa-dsa-service-environment-set-subscriber-uri>
    <subscriber-uri> subscriber-uri </subscriber-uri>
    <subscriber-type> subscriber-type </subscriber-type>
    <subscriber-address> subscriber-address </subscriber-address>
    <login-name> login-name </login-name>
    <dn> dn </dn>
    <virtual-router> virtual-router </virtual-router>
    <interface-name> interface-name </interface-name>
    <interface-index> interface-index </interface-index>
    <primary-user-name> primary-user-name </primary-user-name>
    <external-id> external-id </external-id>
    <session-handle> session-handle </session-handle>
    <namespace> namespace </namespace>
    <tunnel-session-id> tunnel-session-id </tunnel-session-id>
    <tunnel-id> tunnel-id </tunnel-id>
    <lac-ip-address> lac-ip-address </lac-ip-address>
    <subscriber-constraints> subscriber-constraints </subscriber-constraints>
  </test-dsa-dsa-service-environment-set-subscriber-uri>
</rpc>
```

### Description

Set SAE subscriber URI for the current session.

### Contents

<subscriber-uri>— (Optional)

**Value**—Text

<subscriber-type>— (Optional) Subscriber type defined in current shared dsa group configuration.

**Value**—Text

<subscriber-address>— (Optional) IP address of the subscriber.

**Value**—Text

<login-name>— (Optional) Login name of the subscriber.

**Value**—Text

<dn>— (Optional) DN of the subscriber profile.

**Value**—Text

<virtual-router>— (Optional) Name of the virtual router.

**Value**—Text

<interface-name>— (Optional) Name of the interface.

**Value**—Text

<interface-index>— (Optional) SNMP index of the interface.

**Value**—Text

<primary-user-name>— (Optional) Primary username.

**Value**—Text

<external-id>— (Optional) Client external ID.

**Value**—Text

<session-handle>— (Optional) Subscriber session handle

**Value**—Text

<namespace>— (Optional) Namespace in subscriber's external ID.

**Value**—Text

<tunnel-session-id>— (Optional) Subscriber's L2TP tunnel session ID

**Value**—Integer in the range 1–2147483647

<tunnel-id>— (Optional) Subscriber's L2TP tunnel ID.

**Value**—Integer in the range 1–2147483647

<lac-ip-address>— (Optional) IP address of subscriber's L2TP Access Concentrator

**Value**—Text

<subscriber-constraints>— (Optional) The constraint for the NIC key, in the format "< constraint name> = < constraint value>".

**Value**—Text

## Required Privilege Level

maintenance



## **<test-dsa-dsa-service-environment-show>**

### **Usage**

```
<rpc>  
  <test-dsa-dsa-service-environment-show>  
  </test-dsa-dsa-service-environment-show>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 3.0.0

### **Description**

Display Dynamic Service Activator service test settings for the current subscriber session.

### **Required Privilege Level**

maintenance

## **<test-dsa-dsa-service-environment-show-client-id>**

### **Usage**

```
<rpc>  
  <test-dsa-dsa-service-environment-show-client-id>  
  </test-dsa-dsa-service-environment-show-client-id>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 3.0.0

### **Description**

Display test setting for client username.

### **Required Privilege Level**

maintenance

## **<test-dsa-dsa-service-environment-show-client-password>**

### **Usage**

```
<rpc>  
  <test-dsa-dsa-service-environment-show-client-password>  
  </test-dsa-dsa-service-environment-show-client-password>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 3.0.0

### **Description**

Display test setting for client password.

### **Required Privilege Level**

maintenance

## **<test-dsa-dsa-service-environment-show-subscriber-id>**

### **Usage**

```
<rpc>  
  <test-dsa-dsa-service-environment-show-subscriber-id>  
  </test-dsa-dsa-service-environment-show-subscriber-id>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 3.0.0

### **Description**

Display test setting for username that the SAE uses to authenticate the subscriber.

### **Required Privilege Level**

maintenance

## **<test-dsa-dsa-service-environment-show-subscriber-password>**

### **Usage**

```
<rpc>  
  <test-dsa-dsa-service-environment-show-subscriber-password>  
  </test-dsa-dsa-service-environment-show-subscriber-password>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 3.0.0

### **Description**

Display test setting for the password that the SAE uses to authenticate the subscriber.

### **Required Privilege Level**

maintenance

## **<test-dsa-dsa-service-environment-show-subscriber-uri>**

### **Usage**

```
<rpc>  
  <test-dsa-dsa-service-environment-show-subscriber-uri>  
  </test-dsa-dsa-service-environment-show-subscriber-uri>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 3.0.0

### **Description**

Display test setting for subscriber type.

### **Required Privilege Level**

maintenance

## <test-dsa-dsa-service-invoke-gateway-extension>

### Usage

```
<rpc>
  <test-dsa-dsa-service-invoke-gateway-extension>
    <gateway-extension-name> gateway-extension-name </gateway-extension-name>
    <gateway-extension-arguments> gateway-extension-arguments </gateway-
extension-arguments>
    <client-id> client-id </client-id>
    <client-password> client-password </client-password>
  </test-dsa-dsa-service-invoke-gateway-extension>
</rpc>
```

### Release Information

Command introduced in SRC Release 3.0.0

### Description

Test gateway extension invocation.

### Contents

<gateway-extension-name>— Name of the servlet that the gateway client invokes.

**Value**—Text

<gateway-extension-arguments>— Arguments that the gateway client passes to the servlet.

**Value**—Text

<client-id>— (Optional) Username for Dynamic Service Activator client.

**Value**—Text

<client-password>— (Optional) Password for Dynamic Service Activator client.

**Value**—Text

## **Required Privilege Level**

maintenance



## <test-dsa-dsa-service-invoke-script>

### Usage

```
<rpc>
  <test-dsa-dsa-service-invoke-script>
    <sae-script-name> sae-script-name </sae-script-name>
    <sae-script-arguments> sae-script-arguments </sae-script-arguments>
    <client-id> client-id </client-id>
    <client-password> client-password </client-password>
  </test-dsa-dsa-service-invoke-script>
</rpc>
```

### Release Information

Command introduced in SRC Release 3.0.0

### Description

Test script invocation.

### Contents

<sae-script-name>— Name of the script that Dynamic Service Activator starts.

**Value**—Text

<sae-script-arguments>— Arguments that the script requires.

**Value**—Text

<client-id>— (Optional) Username for Dynamic Service Activator client.

**Value**—Text

<client-password>— (Optional) Password for Dynamic Service Activator client.

**Value**—Text

## **Required Privilege Level**

maintenance

## <test-dsa-dsa-service-subscriber-activate-service>

### Usage

```
<rpc>
  <test-dsa-dsa-service-subscriber-activate-service>
    <subscriber-uri> subscriber-uri </subscriber-uri>
    <service-name> service-name </service-name>
    <service-session> service-session </service-session>
    <accounting-tag> accounting-tag </accounting-tag>
    <downstream-bandwidth> downstream-bandwidth </downstream-bandwidth>
    <upstream-bandwidth> upstream-bandwidth </upstream-bandwidth>
    <session-timeout> session-timeout </session-timeout>
    <subscription-user> subscription-user </subscription-user>
    <subscription-password> subscription-password </subscription-password>
    <substitutions> substitutions </substitutions>
    <client-id> client-id </client-id>
    <client-password> client-password </client-password>
  </test-dsa-dsa-service-subscriber-activate-service>
</rpc>
```

### Release Information

Command introduced in SRC Release 3.0.0

### Description

Test subscriber service activation.

### Contents

<subscriber-uri>— (Optional) Subscriber URI to locate SAE.

**Value**—Text

<service-name>— Name of the subscription.

**Value**—Text

<service-session>— (Optional) Name of the service session.

**Value**—Text

`<accounting-tag>`— (Optional) Tag used to track a session for accounting purposes.

**Value**—Text

`<downstream-bandwidth>`— (Optional) Traffic rate between the subscriber and the network.

**Value**—Text

`<upstream-bandwidth>`— (Optional) Traffic rate between the network and the subscriber.

**Value**—Text

`<session-timeout>`— (Optional) Timeout for the service.

**Value**—Text

`<subscription-user>`— (Optional) Name of the subscriber to the service.

**Value**—Text

`<subscription-password>`— (Optional) Password of the subscriber to the service.

**Value**—Text

`<substitutions>`— (Optional) Attributes and values that the method should substitute for existing settings.

**Value**—Text

`<client-id>`— (Optional) Username for Dynamic Service Activator client.

**Value**—Text

`<client-password>`— (Optional) Password for Dynamic Service Activator client.

**Value**—Text

**Required Privilege Level**

maintenance

## <test-dsa-dsa-service-subscriber-deactivate-service>

### Usage

```
<rpc>
  <test-dsa-dsa-service-subscriber-deactivate-service>
    <subscriber-uri> subscriber-uri </subscriber-uri>
    <service-name> service-name </service-name>
    <service-session> service-session </service-session>
    <client-id> client-id </client-id>
    <client-password> client-password </client-password>
  </test-dsa-dsa-service-subscriber-deactivate-service>
</rpc>
```

### Release Information

Command introduced in SRC Release 3.0.0

### Description

Test subscriber service deactivation.

### Contents

<subscriber-uri>— (Optional) Subscriber URI to locate SAE.

**Value**—Text

<service-name>— Name of the subscription.

**Value**—Text

<service-session>— (Optional) Name of the service session.

**Value**—Text

<client-id>— (Optional) Username for Dynamic Service Activator client.

**Value**—Text

<client-password>— (Optional) Password for Dynamic Service Activator client.

**Value**—Text

**Required Privilege Level**

maintenance

## <test-dsa-dsa-service-subscriber-login>

### Usage

```
<rpc>
  <test-dsa-dsa-service-subscriber-login>
    <subscriber-uri> subscriber-uri </subscriber-uri>
    <subscriber-id> subscriber-id </subscriber-id>
    <subscriber-password> subscriber-password </subscriber-password>
    <client-id> client-id </client-id>
    <client-password> client-password </client-password>
  </test-dsa-dsa-service-subscriber-login>
</rpc>
```

### Release Information

Command introduced in SRC Release 3.0.0

### Description

Test subscriber login.

### Contents

<subscriber-uri>— (Optional) Subscriber URI to locate SAE.

**Value**—Text

<subscriber-id>— (Optional) Username for the SAE subscriber.

**Value**—Text

<subscriber-password>— (Optional) Password for the SAE subscriber.

**Value**—Text

<client-id>— (Optional) Username for Dynamic Service Activator client.

**Value**—Text

<client-password>— (Optional) Password for Dynamic Service Activator client.



**Value**—Text

**Required Privilege Level**

maintenance

## <test-dsa-dsa-service-subscriber-logout>

### Usage

```
<rpc>
  <test-dsa-dsa-service-subscriber-logout>
    <subscriber-uri> subscriber-uri </subscriber-uri>
    <client-id> client-id </client-id>
    <client-password> client-password </client-password>
  </test-dsa-dsa-service-subscriber-logout>
</rpc>
```

### Release Information

Command introduced in SRC Release 3.0.0

### Description

Test subscriber logout.

### Contents

<subscriber-uri>— (Optional) Subscriber URI to locate SAE.

**Value**—Text

<client-id>— (Optional) Username for Dynamic Service Activator client.

**Value**—Text

<client-password>— (Optional) Password for Dynamic Service Activator client.

**Value**—Text

### Required Privilege Level

maintenance

## <test-dsa-dsa-service-subscriber-modify-service>

### Usage

```
<rpc>
  <test-dsa-dsa-service-subscriber-modify-service>
    <subscriber-uri> subscriber-uri </subscriber-uri>
    <service-name> service-name </service-name>
    <service-session> service-session </service-session>
    <accounting-tag> accounting-tag </accounting-tag>
    <downstream-bandwidth> downstream-bandwidth </downstream-bandwidth>
    <upstream-bandwidth> upstream-bandwidth </upstream-bandwidth>
    <session-timeout> session-timeout </session-timeout>
    <subscription-user> subscription-user </subscription-user>
    <subscription-password> subscription-password </subscription-password>
    <substitutions> substitutions </substitutions>
    <client-id> client-id </client-id>
    <client-password> client-password </client-password>
  </test-dsa-dsa-service-subscriber-modify-service>
</rpc>
```

### Release Information

Command introduced in SRC Release 3.0.0

### Description

Test subscriber service modifications.

### Contents

<subscriber-uri>— (Optional) Subscriber URI to locate SAE.

**Value**—Text

<service-name>— Name of the subscription.

**Value**—Text

<service-session>— (Optional) Name of the service session.

**Value**—Text

`<accounting-tag>`— (Optional) Tag used to track a session for accounting purposes.

**Value**—Text

`<downstream-bandwidth>`— (Optional) Traffic rate between the subscriber and the network.

**Value**—Text

`<upstream-bandwidth>`— (Optional) Traffic rate between the network and the subscriber.

**Value**—Text

`<session-timeout>`— (Optional) Timeout for the service.

**Value**—Text

`<subscription-user>`— (Optional) Name of the subscriber to the service.

**Value**—Text

`<subscription-password>`— (Optional) Password of the subscriber to the service.

**Value**—Text

`<substitutions>`— (Optional) Attributes and values that the method should substitute for existing settings.

**Value**—Text

`<client-id>`— (Optional) Username for Dynamic Service Activator client.

**Value**—Text

`<client-password>`— (Optional) Password for Dynamic Service Activator client.

**Value**—Text

**Required Privilege Level**

maintenance

## <test-dsa-dsa-service-subscriber-read-subscription>

### Usage

```
<rpc>
  <test-dsa-dsa-service-subscriber-read-subscription>
    <subscriber-uri> subscriber-uri </subscriber-uri>
    <attributes> attributes </attributes>
    <filter> filter </filter>
    <client-id> client-id </client-id>
    <client-password> client-password </client-password>
  </test-dsa-dsa-service-subscriber-read-subscription>
</rpc>
```

### Release Information

Command introduced in SRC Release 3.0.0

### Description

Test subscriber's access to subscriptions.

### Contents

<subscriber-uri>— (Optional) Subscriber URI to locate SAE.

**Value**—Text

<attributes>— (Optional) Attribute field in a select argument that indicates subscription attributes.

**Value**—Text

**Default**—serviceName

<filter>— (Optional) Filter field in a select argument that indicates subscriptions.

**Value**—Text

**Default**—\*

<client-id>— (Optional) Username for Dynamic Service Activator client.

**Value**—Text

<client-password>— (Optional) Password for Dynamic Service Activator client.

**Value**—Text

**Required Privilege Level**

maintenance

## <test-dsa-dsa-service-subscribers-read>

### Usage

```
<rpc>
  <test-dsa-dsa-service-subscribers-read>
    <subscriber-uri> subscriber-uri </subscriber-uri>
    <subscription-attributes> subscription-attributes </subscription-attributes>
    <subscription-filter> subscription-filter </subscription-filter>
    <service-attributes> service-attributes </service-attributes>
    <service-filter> service-filter </service-filter>
    <subscriber-attributes> subscriber-attributes </subscriber-attributes>
    <client-id> client-id </client-id>
    <client-password> client-password </client-password>
  </test-dsa-dsa-service-subscribers-read>
</rpc>
```

### Description

Test read all subscriber sessions.

### Contents

<subscriber-uri>— (Optional) Subscriber URI to locate SAE.

**Value**—Text

<subscription-attributes>— (Optional) Attributes names for subscription.

**Value**—Text

<subscription-filter>— (Optional) Filter for subscription.

**Value**—Text

<service-attributes>— (Optional) Attributes names for service.

**Value**—Text

<service-filter>— (Optional) Filter for service.



**Value**—Text

<subscriber-attributes>— (Optional) Attributes for subscriber.

**Value**—Text

<client-id>— (Optional) Username for Dynamic Service Activator client.

**Value**—Text

<client-password>— (Optional) Password for Dynamic Service Activator client.

**Value**—Text

### Required Privilege Level

maintenance

## <test-dsa-dsa-service-subscribers-read-subscriber>

### Usage

```
<rpc>
  <test-dsa-dsa-service-subscribers-read-subscriber>
    <subscriber-uri> subscriber-uri </subscriber-uri>
    <subscriber-attributes> subscriber-attributes </subscriber-attributes>
    <client-id> client-id </client-id>
    <client-password> client-password </client-password>
  </test-dsa-dsa-service-subscribers-read-subscriber>
</rpc>
```

### Description

Test read a subscriber session.

### Contents

<subscriber-uri>— (Optional) Subscriber URI to locate SAE.

**Value**—Text

<subscriber-attributes>— (Optional) Attributes for subscriber.

**Value**—Text

<client-id>— (Optional) Username for Dynamic Service Activator client.

**Value**—Text

<client-password>— (Optional) Password for Dynamic Service Activator client.

**Value**—Text

### Required Privilege Level

maintenance

## <test-dsa-pcmm-service-commit-resources>

### Usage

```
<rpc>
  <test-dsa-pcmm-service-commit-resources>
    <subscriber-address> subscriber-address </subscriber-address>
    <subscriber-uri> subscriber-uri </subscriber-uri>
    <service-name> service-name </service-name>
    <context-id> context-id </context-id>
    <time-usage-limit> time-usage-limit </time-usage-limit>
    <classifier> classifier </classifier>
    <traffic-profile> traffic-profile </traffic-profile>
    <flow-spec> flow-spec </flow-spec>
    <client-id> client-id </client-id>
    <client-password> client-password </client-password>
  </test-dsa-pcmm-service-commit-resources>
</rpc>
```

### Release Information

Command introduced in SRC Release 3.0.0

### Description

Specifies the resources that are being requested in the CommitResource message.

### Contents

<subscriber-address>— (Optional) IP address for PCMM service client.

**Value**—Text

<subscriber-uri>— (Optional) Subscriber URI for PCMM service.

**Value**—Text

<service-name>— Name of the SRC service.

**Value**—Text

<context-id>— (Optional) Context ID; globally unique identifier that the application manager uses as the SRC session name.

**Value—Text**

`<time-usage-limit>`— (Optional) Limit on the lifetime of a context.

**Value—Text**

`<classifier>`— (Optional) Object that identifies the traffic flow for which the application server is requesting services. In the format: `< parameter name> = < parameter value> .`

**Value—Text**

`<traffic-profile>`— (Optional) The bandwidth and QoS characteristics desired for a request. In the format: `< parameter name> = < parameter value> .`

**Value—Text**

`<flow-spec>`— (Optional) FlowSpec action to specify the traffic profile. In the format: `< parameter name> = < parameter value> .`

**Value—Text**

`<client-id>`— (Optional) ID for PCMM service client.

**Value—Text**

`<client-password>`— (Optional) Password for PCMM service client.

**Value—Text****Required Privilege Level**

maintenance

## **<test-dsa-pcmm-service-environment-clear>**

### **Usage**

```
<rpc>  
  <test-dsa-pcmm-service-environment-clear>  
  </test-dsa-pcmm-service-environment-clear>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 3.0.0

### **Description**

Delete PCMM service test settings for the current subscriber session.

### **Required Privilege Level**

maintenance

## **<test-dsa-pcmm-service-environment-clear-client-id>**

### **Usage**

```
<rpc>  
  <test-dsa-pcmm-service-environment-clear-client-id>  
  </test-dsa-pcmm-service-environment-clear-client-id>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 3.0.0

### **Description**

Delete test setting for PCMM service client ID.

### **Required Privilege Level**

maintenance

## <test-dsa-pcmm-service-environment-clear-client-password>

### Usage

```
<rpc>  
  <test-dsa-pcmm-service-environment-clear-client-password>  
  </test-dsa-pcmm-service-environment-clear-client-password>  
</rpc>
```

### Release Information

Command introduced in SRC Release 3.0.0

### Description

Delete test setting for PCMM service client password.

### Required Privilege Level

maintenance

## **<test-dsa-pcmm-service-environment-clear-subscriber-address>**

### **Usage**

```
<rpc>  
  <test-dsa-pcmm-service-environment-clear-subscriber-address>  
  </test-dsa-pcmm-service-environment-clear-subscriber-address>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 3.0.0

### **Description**

Delete test setting for PCMM service subscriber IP address.

### **Required Privilege Level**

maintenance



## **<test-dsa-pcmm-service-environment-clear-subscriber-uri>**

### **Usage**

```
<rpc>  
  <test-dsa-pcmm-service-environment-clear-subscriber-uri>  
  </test-dsa-pcmm-service-environment-clear-subscriber-uri>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 3.0.0

### **Description**

Delete test setting for PCMM service subscriber URI.

### **Required Privilege Level**

maintenance

## <test-dsa-pcmm-service-environment-set>

### Usage

```
<rpc>
  <test-dsa-pcmm-service-environment-set>
    <client-id> client-id </client-id>
    <client-password> client-password </client-password>
    <subscriber-address> subscriber-address </subscriber-address>
    <subscriber-uri> subscriber-uri </subscriber-uri>
  </test-dsa-pcmm-service-environment-set>
</rpc>
```

### Release Information

Command introduced in SRC Release 3.0.0

### Description

Create PCMM service test settings for the current subscriber session.

### Contents

<client-id>— (Optional) ID for PCMM service client.

**Value**—Text

<client-password>— (Optional) Password for PCMM service client.

**Value**—Text

<subscriber-address>— (Optional) IP for PCMM service client.

**Value**—Text

<subscriber-uri>— (Optional) Subscriber URI for PCMM service. In the following format:  
 < subscriber-type> :< subscriber-comp> [< subscriber-comp> ]\*['< constraint>  
 [< constraint> ]\*> ']

**Value**—Text

**Required Privilege Level**

maintenance

## **<test-dsa-pcmm-service-environment-show>**

### **Usage**

```
<rpc>  
  <test-dsa-pcmm-service-environment-show>  
  </test-dsa-pcmm-service-environment-show>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 3.0.0

### **Description**

Display PCMM service test settings for the current subscriber session.

### **Required Privilege Level**

maintenance

## **<test-dsa-pcmm-service-environment-show-client-id>**

### **Usage**

```
<rpc>  
  <test-dsa-pcmm-service-environment-show-client-id>  
  </test-dsa-pcmm-service-environment-show-client-id>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 3.0.0

### **Description**

Display PCMM service test setting for the client username.

### **Required Privilege Level**

maintenance

## **<test-dsa-pcmm-service-environment-show-client-password>**

### **Usage**

```
<rpc>  
  <test-dsa-pcmm-service-environment-show-client-password>  
  </test-dsa-pcmm-service-environment-show-client-password>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 3.0.0

### **Description**

Display PCMM service test setting for the client password.

### **Required Privilege Level**

maintenance

## **<test-dsa-pcmm-service-environment-show-subscriber-address>**

### **Usage**

```
<rpc>  
  <test-dsa-pcmm-service-environment-show-subscriber-address>  
  </test-dsa-pcmm-service-environment-show-subscriber-address>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 3.0.0

### **Description**

Display PCMM service test setting for the IP address of the subscriber.

### **Required Privilege Level**

maintenance

## **<test-dsa-pcmm-service-environment-show-subscriber-uri>**

### **Usage**

```
<rpc>  
  <test-dsa-pcmm-service-environment-show-subscriber-uri>  
  </test-dsa-pcmm-service-environment-show-subscriber-uri>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 3.0.0

### **Description**

Display PCMM service test setting for the subscriber URL.

### **Required Privilege Level**

maintenance



## <test-dsa-pcmm-service-query-available-services>

### Usage

```
<rpc>
  <test-dsa-pcmm-service-query-available-services>
    <client-id> client-id </client-id>
    <client-password> client-password </client-password>
  </test-dsa-pcmm-service-query-available-services>
</rpc>
```

### Release Information

Command introduced in SRC Release 3.0.0

### Description

Searches for the services that are available for a specified subscriber.

### Contents

<client-id>— (Optional) ID for PCMM service client.

**Value**—Text

<client-password>— (Optional) Password for PCMM service client.

**Value**—Text

### Required Privilege Level

maintenance

## <test-dsa-pcmm-service-query-contexts>

### Usage

```
<rpc>
  <test-dsa-pcmm-service-query-contexts>
    <subscriber-address> subscriber-address </subscriber-address>
    <subscriber-uri> subscriber-uri </subscriber-uri>
    <service-name> service-name </service-name>
    <context-id> context-id </context-id>
    <client-id> client-id </client-id>
    <client-password> client-password </client-password>
  </test-dsa-pcmm-service-query-contexts>
</rpc>
```

### Release Information

Command introduced in SRC Release 3.0.0

### Description

Searches for the context ID and context status for a subscriber.

### Contents

<subscriber-address>— (Optional) IP address for PCMM service client.

**Value**—Text

<subscriber-uri>— (Optional) Subscriber URI for PCMM service.

**Value**—Text

<service-name>— (Optional) Name of the SRC service.

**Value**—Text

<context-id>— (Optional) Context ID; globally unique identifier that the application manager uses as the SRC session name.

**Value**—Text

<client-id>— (Optional) ID for PCMM service client.

**Value**—Text

<client-password>— (Optional) Password for PCMM service client.

**Value**—Text

### Required Privilege Level

maintenance

## <test-dsa-pcmm-service-release-resources>

### Usage

```
<rpc>
  <test-dsa-pcmm-service-release-resources>
    <subscriber-address> subscriber-address </subscriber-address>
    <subscriber-uri> subscriber-uri </subscriber-uri>
    <service-name> service-name </service-name>
    <context-id> context-id </context-id>
    <client-id> client-id </client-id>
    <client-password> client-password </client-password>
  </test-dsa-pcmm-service-release-resources>
</rpc>
```

### Release Information

Command introduced in SRC Release 3.0.0

### Description

Specifies the resources that are being requested to be released in the ReleaseResources message.

### Contents

<subscriber-address>— (Optional) IP address for PCMM service client.

**Value**—Text

<subscriber-uri>— (Optional) Subscriber URI for PCMM service.

**Value**—Text

<service-name>— Name of the SRC service.

**Value**—Text

<context-id>— (Optional) Context ID; globally unique identifier that the application manager uses as the SRC session name.

**Value**—Text

<client-id>— (Optional) ID for PCMM service client.

**Value**—Text

<client-password>— (Optional) Password for PCMM service client.

**Value**—Text

### Required Privilege Level

maintenance



# Diameter Operational Tag Elements

[Table 30](#) lists the SRC CLI operational mode commands that have corresponding SRC XML request tag elements in the current version of the SRC software, and maps each command to its request tag element. CLI commands are listed in alphabetical order.

For a list of mappings organized alphabetically by request tag element name, see [Table 31](#). For more information about CLI commands, see the *SRC PE CLI Command Reference*.

For a list of response tag elements, see [Table 32](#).

Table 30: Mapping of Diameter CLI Commands to Operational Tag Elements

| CLI Command   | Request Tag Element                                  |
|---|--|
| show diameter statistics                              | get-diameter-statistics                              |
| show diameter statistics message-handler              | get-diameter-statistics-message-handler              |
| show diameter statistics message-handler message-flow | get-diameter-statistics-message-handler-message-flow |
| show diameter statistics process                      | get-diameter-statistics-process                      |
| show diameter statistics requests                     | get-diameter-statistics-requests                     |
| show diameter status                                  | get-diameter-status                                  |
| show diameter status clients                          | get-diameter-status-clients                          |
| show diameter status peers                            | get-diameter-status-peers                            |

[Table 31](#) maps SRC XML operational request tag elements to SRC CLI commands. Tag elements are listed in alphabetical order.

Table 31: Mapping of Diameter Operational Tag Elements to CLI Commands

| Request Tag Element  | CLI Command   |
|--|---|
| <a href="#">get-diameter-statistics</a>                              | show diameter statistics                              |
| <a href="#">get-diameter-statistics-message-handler</a>              | show diameter statistics message-handler              |
| <a href="#">get-diameter-statistics-message-handler-message-flow</a> | show diameter statistics message-handler message-flow |
| <a href="#">get-diameter-statistics-process</a>                      | show diameter statistics process                      |
| <a href="#">get-diameter-statistics-requests</a>                     | show diameter statistics requests                     |

|   |                              |
|---|------------------------------|
| <a href="#">get-diameter-status</a>         | show diameter status         |
| <a href="#">get-diameter-status-clients</a> | show diameter status clients |
| <a href="#">get-diameter-status-peers</a>   | show diameter status peers   |

[Table 32](#) lists the SRC XML operational response tag elements. Tag elements are listed in alphabetical order.

Table 32: Operational Response Tag Elements

| <b>Response Tag Element</b>             |
|---|
| <a href="#">client-diameter-message</a> |
| <a href="#">client</a>                  |
| <a href="#">clients</a>                 |
| <a href="#">forwarder</a>               |
| <a href="#">jvm-stats</a>               |
| <a href="#">msg-flow</a>                |
| <a href="#">msg-handler</a>             |
| <a href="#">peer-diameter-message</a>   |
| <a href="#">peer</a>                    |
| <a href="#">peers</a>                   |
| <a href="#">request</a>                 |
| <a href="#">statistics</a>              |
| <a href="#">status</a>                  |



## **<get-diameter-statistics>**

### **Usage**

```
<rpc>  
  <get-diameter-statistics>  
  </get-diameter-statistics>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 3.0.0

### **Description**

Display Diameter statistics, including information about the server process and the current state of the Diameter server.

### **Required Privilege Level**

view

### **Output Tag**

[statistics](#)

## **<get-diameter-statistics-message-handler>**

### **Usage**

```
<rpc>  
  <get-diameter-statistics-message-handler>  
  </get-diameter-statistics-message-handler>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 3.0.0

### **Description**

Display statistics for the Diameter message handler.

### **Required Privilege Level**

view

### **Output Tag**

[msg-handler](#)

## <get-diameter-statistics-message-handler-message-flow>

### Usage

```
<rpc>
  <get-diameter-statistics-message-handler-message-flow>
    <id> id </id>
  </get-diameter-statistics-message-handler-message-flow>
</rpc>
```

### Release Information

Command introduced in SRC Release 3.0.0

### Description

Display statistics for Diameter message flows.

### Contents

<id>— (Optional) Message flow ID filter.

**Value**— Substring of the message flow ID. If the message flow ID filter is not specified, all message flows are selected.

**Default**— No value

### Required Privilege Level

view

### Output Tag

[msg-flow](#)

## **<get-diameter-statistics-process>**

### **Usage**

```
<rpc>  
  <get-diameter-statistics-process>  
  </get-diameter-statistics-process>  
</rpc>
```

### **Release Information**

Command introduced in SRC Release 3.0.0

### **Description**

Display information about the Diameter server process.

### **Required Privilege Level**

view

### **Output Tag**

[jvm-stats](#)

## <get-diameter-statistics-requests>

### Usage

```
<rpc>  
  <get-diameter-statistics-requests>  
  </get-diameter-statistics-requests>  
</rpc>
```

### Release Information

Command introduced in SRC Release 3.0.0

### Description

Display information about the Diameter server requests.

### Required Privilege Level

view

### Output Tag

[request](#)

## <get-diameter-status>

### Usage

```
<rpc>  
  <get-diameter-status>  
    <style> style-choice </style>  
  </get-diameter-status>  
</rpc>
```

### Release Information

Command introduced in SRC Release 3.0.0

### Description

Display Diameter status.

### Contents

<style>— (Optional) Output style.

#### Value

- brief— Display only peer and client names.

**Default**— Detail

### Required Privilege Level

view

### Output Tag

[status](#)

## <get-diameter-status-clients>

### Usage

```
<rpc>
  <get-diameter-status-clients>
    <client-name> client-name </client-name>
  </get-diameter-status-clients>
</rpc>
```

### Release Information

Command introduced in SRC Release 3.0.0

### Description

Display information for a client instance.

### Contents

<client-name>— (Optional) Name of a client.

**Value**— All or part of the client name.

**Default**— No value

### Required Privilege Level

view

### Output Tag

[clients](#)

## <get-diameter-status-peers>

### Usage

```
<rpc>  
  <get-diameter-status-peers>  
    <peer-name> peer-name </peer-name>  
  </get-diameter-status-peers>  
</rpc>
```

### Release Information

Command introduced in SRC Release 3.0.0

### Description

Display information for a peer instance.

### Contents

<peer-name>— (Optional) Name of a peer.

**Value**— All or part of the peer name.

**Default**— No value

### Required Privilege Level

view

### Output Tag

[peers](#)



## <client-diameter-message>

### Usage

```
< client-diameter-message xmlns= "http://xml.juniper.net/sdx/client-diameter-message">
  < asr-sent-requests> asr-sent-requests < /asr-sent-requests>
  < avg-latency> avg-latency < /avg-latency>
  < avg-ps-processing-time> avg-ps-processing-time < /avg-ps-processing-time>
  < ppr-sent-requests> ppr-sent-requests < /ppr-sent-requests>
  < sent-requests> sent-requests < /sent-requests>
  < srq-sent-requests> srq-sent-requests < /srq-sent-requests>
< /client-diameter-message>
```

### Contents

< asr-sent-requests> —Abort-Session requests (ASR)

**Value**—Integer in the range -2147483648–2147483647

< avg-latency> —Average diameter server processing time (last 5000 sent rqs, ms)

**Value**—Integer in the range -2147483648–2147483647

< avg-ps-processing-time> —Average PS processing time (last 5000 rcv rqs, ms)

**Value**—Integer in the range -2147483648–2147483647

< ppr-sent-requests> —Push-Profile requests (PPR)

**Value**—Integer in the range -2147483648–2147483647

< sent-requests> —Total of sent requests

**Value**—Integer in the range -2147483648–2147483647

< srq-sent-requests> —Session resource (SRQ)

**Value**—Integer in the range -2147483648–2147483647

## <client>

### Usage

```
< client xmlns= "http://xml.juniper.net/sdx/client">
  < jsrc-id> jsrc-id </jsrc-id>
  < nas-group> nas-group </nas-group>
  < origin-host> origin-host </origin-host>
  < send-failed> send-failed </send-failed>
  < solicited-requests> solicited-requests </solicited-requests>
  < src-id> src-id </src-id>
  < unsolicited-requests> unsolicited-requests </unsolicited-requests>
< /client>
```

### Contents

< jsrc-id> —Jsrc ID

< nas-group> —NAS group

< origin-host> —Origin host

< send-failed> —Number of message failures

**Value**—Integer in the range -2147483648–2147483647

< solicited-requests> —Number of messages forwarded to client

**Value**—Integer in the range -2147483648–2147483647

< src-id> —SRC id

< unsolicited-requests> —Number of messages sent from client

**Value**—Integer in the range -2147483648–2147483647

### Style

#### brief

< src-id>

**detail**

< jsrc-id>

< nas-group>

< origin-host>

< send-failed>

< solicited-requests>

< src-id>

< unsolicited-requests>

## <clients>

### Usage

```
< clients xmlns= "http://xml.juniper.net/sdx/clients">  
  < client xmlns= "http://xml.juniper.net/sdx/client"> ... < /client>  
< /clients>
```

### Contents

< client>

Multiple tag: can occur zero or more times.  
[client](#)

### Style

#### **brief**

< client>

#### **detail**

< client>

# <forwarder>

## Usage

```
< forwarder xmlns= "http://xml.juniper.net/sdx/forwarder">  
  < jvm-stats xmlns= "http://xml.juniper.net/sdx/jvm-stats"> ... < /jvm-stats>  
  < msg-handler xmlns= "http://xml.juniper.net/sdx/msg-handler"> ... < /msg-handler>  
< /forwarder>
```

## Description

Diameter Server Statistics

## Contents

< jvm-stats>

[jvm-stats](#)

< msg-handler>

[msg-handler](#)

## Style

### detail

```
< jvm-stats>  
< msg-handler>
```

## <jvm-stats>

### Usage

```
< jvm-stats xmlns= "http://xml.juniper.net/sdx/jvm-stats">
  < heap-limit> heap-limit </heap-limit>
  < heap-used> heap-used </heap-used>
  < number-threads> number-threads </number-threads>
  < up-since> up-since </up-since>
  < up-time> up-time </up-time>
< /jvm-stats>
```

### Description

Diameter Server Process Statistics

### Contents

< heap-limit> —Heap limit (bytes)

**Value**—Integer in the range -9223372036854775808–9223372036854775807

< heap-used> —Heap used (bytes)

**Value**—Text

< number-threads> —Diameter server threads

**Value**—Integer in the range -2147483648–2147483647

< up-since> —Diameter server up since

**Value**—Text

< up-time> —Diameter server up time (seconds)

**Value**—Integer in the range -2147483648–2147483647

## <msg-flow>

### Usage

```
< msg-flow xmlns= "http://xml.juniper.net/sdx/msg-flow">
  < avg-latency> avg-latency < /avg-latency>
  < avg-throughput> avg-throughput < /avg-throughput>
  < creation-time> creation-time < /creation-time>
  < id> id < /id>
  < msg-drop> msg-drop < /msg-drop>
  < msg-fwd> msg-fwd < /msg-fwd>
  < msg-rcvd> msg-rcvd < /msg-rcvd>
  < msgflow-size> msgflow-size < /msgflow-size>
  < up-time> up-time < /up-time>
< /msg-flow>
```

### Description

Diameter Message Flow

### Contents

< avg-latency> —Average non-decoding time (last 5000 messages, ms)

**Value**—Integer in the range -2147483648–2147483647

< avg-throughput> —Throughput (last 60s, msgs/s)

**Value**—Text

< creation-time> —Creation time

**Value**—Text

< id> —Flow id

**Value**—Text

< msg-drop> —Message dropped

**Value**—Integer in the range -2147483648–2147483647

< msg-fwd> —Message forwarded

**Value**—Integer in the range -2147483648–2147483647

< msg-rcvd> —Message received

**Value**—Integer in the range -2147483648–2147483647

< msgflow-size> —Message flow size

**Value**—Integer in the range -2147483648–2147483647

< up-time> —Up time (s)

**Value**—Integer in the range -9223372036854775808–9223372036854775807



## <msg-handler>

### Usage

```
< msg-handler xmlns= "http://xml.juniper.net/sdx/msg-handler">
  < avg-latency> avg-latency < /avg-latency>
  < avg-throughput> avg-throughput < /avg-throughput>
  < msg-drop> msg-drop < /msg-drop>
  < msg-forward> msg-forward < /msg-forward>
  < msg-rcvd> msg-rcvd < /msg-rcvd>
< /msg-handler>
```

### Description

Diameter Message Handler

### Contents

< avg-latency> —Average non-decoding time (last 5000 msgs, ms)

**Value**—Integer in the range -2147483648–2147483647

< avg-throughput> —Throughput (last 60s, msgs/s)

**Value**—Text

< msg-drop> —Messages dropped

**Value**—Integer in the range -2147483648–2147483647

< msg-forward> —Messages handled

**Value**—Integer in the range -2147483648–2147483647

< msg-rcvd> —Messages received

**Value**—Integer in the range -2147483648–2147483647

## <peer-diameter-message>

### Usage

```
< peer-diameter-message xmlns= "http://xml.juniper.net/sdx/peer-diameter-message">
  < aar-received-requests> aar-received-requests < /aar-received-requests>
  < acr-received-requests> acr-received-requests < /acr-received-requests>
  < avg-latency> avg-latency < /avg-latency>
  < avg-src-processing-time> avg-src-processing-time < /avg-src-processing-time>
  < received-requests> received-requests < /received-requests>
  < srq-received-requests> srq-received-requests < /srq-received-requests>
  < str-received-requests> str-received-requests < /str-received-requests>
< /peer-diameter-message>
```

### Contents

< aar-received-requests> —Authorization-Authentication requests (AAR)

**Value**—Integer in the range -2147483648–2147483647

< acr-received-requests> —Accounting requests (ACR)

**Value**—Integer in the range -2147483648–2147483647

< avg-latency> —Average diameter server processing time (last 5000 rcv rqs, ms)

**Value**—Integer in the range -2147483648–2147483647

< avg-src-processing-time> —Average SRC processing time (last 5000 rcv rqs, ms)

**Value**—Integer in the range -2147483648–2147483647

< received-requests> —Total of received requests

**Value**—Integer in the range -2147483648–2147483647

< srq-received-requests> —Session resource (SRQ)

**Value**—Integer in the range -2147483648–2147483647

< str-received-requests> —Session-Termination requests (STR)

**Value**—Integer in the range -2147483648–2147483647

## <peer>

### Usage

```
< peer xmlns= "http://xml.juniper.net/sdx/peer">
  < connection-time> connection-time </connection-time>
  < function> function </function>
  < ip-addresses> ip-addresses </ip-addresses>
  < message-failures> message-failures </message-failures>
  < name> name </name>
  < origin-host> origin-host </origin-host>
  < pointing-containers> pointing-containers </pointing-containers>
  < protocol> protocol </protocol>
  < received-requests> received-requests </received-requests>
  < received-responses> received-responses </received-responses>
  < sent-requests> sent-requests </sent-requests>
  < sent-responses> sent-responses </sent-responses>
  < status> status </status>
< /peer>
```

### Contents

< connection-time> —Connection Time

< function> —Function

< ip-addresses> —IP addresses

**Value**—Text

< message-failures> —Number of message failures

**Value**—Integer in the range -2147483648–2147483647

< name> —Name

< origin-host> —Origin Host

< pointing-containers> —Device or NAS group names

< protocol> —Protocol

**Value**—Text

< received-requests> —Number of received requests

**Value**—Integer in the range -2147483648–2147483647

< received-responses> —Number of received responses

**Value**—Integer in the range -2147483648–2147483647

< sent-requests> —Number of sent requests

**Value**—Integer in the range -2147483648–2147483647

< sent-responses> —Number of sent responses

**Value**—Integer in the range -2147483648–2147483647

< status> —Status

## Style

### brief

< name>

### detail

< connection-time>  
 < function>  
 < ip-addresses>  
 < message-failures>  
 < name>  
 < origin-host>  
 < pointing-containers>  
 < protocol>  
 < received-requests>  
 < received-responses>  
 < sent-requests>  
 < sent-responses>  
 < status>

## <peers>

### Usage

```
< peers xmlns= "http://xml.juniper.net/sdx/peers">  
  < peer xmlns= "http://xml.juniper.net/sdx/peer"> ... </peer>  
< /peers>
```

### Contents

< peer>

Multiple tag: can occur zero or more times.  
[peer](#)

### Style

#### **brief**

< peer>

#### **detail**

< peer>

## <request>

### Usage

```
< request xmlns= "http://xml.juniper.net/sdx/request">  
  < client-diameter-message xmlns= "http://xml.juniper.net/sdx/client-diameter-message"> ... </client-diameter-message>  
  < peer-diameter-message xmlns= "http://xml.juniper.net/sdx/peer-diameter-message"> ... </peer-diameter-message>  
< /request>
```

### Contents

< client-diameter-message>

[client-diameter-message](#)

< peer-diameter-message>

[peer-diameter-message](#)

## <statistics>

### Usage

```
< statistics xmlns= "http://xml.juniper.net/sdx/statistics">  
  < jvm-stats xmlns= "http://xml.juniper.net/sdx/jvm-stats"> ... < /jvm-stats>  
  < msg-handler xmlns= "http://xml.juniper.net/sdx/msg-handler"> ... < /msg-handler>  
  < request xmlns= "http://xml.juniper.net/sdx/request"> ... < /request>  
< /statistics>
```

### Contents

< jvm-stats>

[jvm-stats](#)

< msg-handler>

[msg-handler](#)

< request>

[request](#)



## <status>

### Usage

```
< status xmlns= "http://xml.juniper.net/sdx/status">  
  < client xmlns= "http://xml.juniper.net/sdx/client"> ... </client>  
  < peer xmlns= "http://xml.juniper.net/sdx/peer"> ... </peer>  
< /status>
```

### Contents

< client>

Multiple tag: can occur zero or more times.  
[client](#)

< peer>

Multiple tag: can occur zero or more times.  
[peer](#)

### Style

#### brief

```
< client>  
< peer>
```

#### detail

```
< client>  
< peer>
```



# License Management Operational Tag Elements

[Table 33](#) lists the SRC CLI operational mode commands that have corresponding SRC XML request tag elements in the current version of the SRC software, and maps each command to its request tag element. CLI commands are listed in alphabetical order.

For a list of mappings organized alphabetically by request tag element name, see [Table 34](#). For more information about CLI commands, see the *SRC PE CLI Command Reference*.

For a list of response tag elements, see [Table 35](#).

Table 33: Mapping of License Management CLI Commands to Operational Tag Elements

| CLI Command                  | Request Tag Element          |
|------------------------------|------------------------------|
| request license import       | request-license-import       |
| request license remove       | request-license-remove       |
| request license usage-report | request-license-usage-report |
| show license allocated       | show-license-allocated       |

[Table 34](#) maps SRC XML operational request tag elements to SRC CLI commands. Tag elements are listed in alphabetical order.

Table 34: Mapping of License Management Operational Tag Elements to CLI Commands

| Request Tag Element                          | CLI Command                  |
|--|------------------------------|
| <a href="#">request-license-import</a>       | request license import       |
| <a href="#">request-license-remove</a>       | request license remove       |
| <a href="#">request-license-usage-report</a> | request license usage-report |
| <a href="#">show-license-allocated</a>       | show license allocated       |

[Table 35](#) lists the SRC XML operational response tag elements. Tag elements are listed in alphabetical order.

Table 35: Operational Response Tag Elements

| Response Tag Element               |
|------------------------------------|
| <a href="#">allocated-license</a>  |
| <a href="#">allocated-licenses</a> |
|                                    |

[allocated-licenses-vr](#)

## <request-license-import>

### Usage

```
<rpc>
  <request-license-import>
    <file-name> file-name </file-name>
    <server-address> server-address </server-address>
    <name-space> name-space </name-space>
    <authentication-dn> authentication-dn </authentication-dn>
    <password> password </password>
    <master-license/>
  </request-license-import>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Import an SRC license into the directory. The license can be either a pilot license or a server license. Use the `master-license` option to install a server, or master, license.

### Contents

`<file-name>`— Name of the file that contains the SRC license information.

**Value**— Filename

**Default**— No value

`<server-address>`— (Optional) IP address for the primary directory server. For C-series platforms, this is the platform that has the Juniper Networks database configured to have a primary role.

**Value**— IP address

**Default**— No value

`<name-space>`— (Optional) Base distinguished name (DN) for the directory. In most cases you can use the default `< base>` .

**Value**— Base DN

**Default**— `< base>`

`<authentication-dn>`— (Optional) DN used for directory authentication.

**Value**— DN

**Default**— No value

`<password>`— (Optional) Password used for directory authentication.

**Value**— Password

**Default**— No value

`<master-license>`— (Optional) License is a server, or master, license.

### Required Privilege Level

maintenance

## <request-license-remove>

### Usage

```
<rpc>
  <request-license-remove>
    <license-id> license-id </license-id>
    <server-address> server-address </server-address>
    <name-space> name-space </name-space>
    <authentication-dn> authentication-dn </authentication-dn>
    <password> password </password>
    <master-license/>
    <all/>
  </request-license-remove>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Remove an SRC license from the directory. Use the `master-license` option to remove a server, or master, license.

### Contents

`<license-id>`— (Optional) License ID identifying the license to be removed.

**Value**— license ID

**Default**— No value

`<server-address>`— (Optional) IP address for the primary directory server. For C-series platforms, this is the platform that has the Juniper Networks database configured to have a primary role.

**Value**— IP address

**Default**— No value

`<name-space>`— (Optional) Base distinguished name (DN) for the directory. In most cases you can use the default `< base>` .

**Value**— Base DN

**Default**— `< base>`

<authentication-dn>— (Optional) DN used for directory authentication.

**Value**— DN

**Default**— No value

<password>— (Optional) Password used for directory authentication.

**Value**— Password

**Default**— No value

<master-license>— (Optional) Remove the master license.

<all>— (Optional) Remove all licenses.

## Required Privilege Level

maintenance



## <request-license-usage-report>

### Usage

```
<rpc>
  <request-license-usage-report>
    <slot> slot </slot>
  </request-license-usage-report>
</rpc>
```

### Release Information

Command introduced in SRC Release 1.0.0

### Description

Create a license usage report. The report lists the date the report was created, and for each license the customer identification information, the license serial number, and the number of licenses installed. It also lists the number of concurrent active SAE service sessions (maximum number of license units) that can be allocated, and the maximum number of concurrent active SAE service sessions allocated since the license was installed or since the last license usage report was created.

### Contents

**<slot>**— (Optional) Number of the slot for which you want to request a license report.

**Value**— Currently the chassis has only one slot. The valid value is 0.

**Default**— 0

### Required Privilege Level

maintenance

## <show-license-allocated>

### Usage

```
<rpc>
  <show-license-allocated>
    <virtual-router> virtual-router </virtual-router>
    <slot> slot </slot>
  </show-license-allocated>
</rpc>
```

### Release Information

Command introduced in SRC Release 3.1.0

### Description

Display information stored in the most recent usage report for the license server. The usage report provides information about the maximum number of concurrent service sessions in use per virtual router since the last time a usage report was generated, and compares this number with the maximum number of sessions allowed by the SRC server license.

### Contents

**<virtual-router>**— (Optional) Name of virtual router for which to display license usage information.

**Value**— VR name

**Default**— No value

**<slot>**— (Optional) Number of the slot for which you want to display license usage information.

**Value**— Currently the chassis has only one slot. The valid value is 0.

**Default**— 0

### Required Privilege Level

No specific privilege required.

### Output Tag

[allocated-licenses](#)

## <allocated-license>

### Usage

```
< allocated-license xmlns= "http://xml.juniper.net/sdx/allocated-license">  
  < enforcement-type> enforcement-type < /enforcement-type>  
  < expiry> expiry < /expiry>  
  < granted> granted < /granted>  
  < last-granted> last-granted < /last-granted>  
< /allocated-license>
```

### Contents

< enforcement-type> —Enforcement type

< expiry> —Expiry

< granted> —Granted

< last-granted> —Last Granted

## <allocated-licenses>

### Usage

```
< allocated-licenses xmlns= "http://xml.juniper.net/sdx/allocated-licenses">  
  < allocated-licenses-vr xmlns= "http://xml.juniper.net/sdx/allocated-licenses-vr"> ... < /allocated-licenses-vr>  
< /allocated-licenses>
```

### Contents

< allocated-licenses-vr>

Multiple tag: can occur zero or more times.

[allocated-licenses-vr](#)

## <allocated-licenses-vr>

### Usage

```
< allocated-licenses-vr xmlns= "http://xml.juniper.net/sdx/allocated-licenses-vr">
  < allocated-license xmlns= "http://xml.juniper.net/sdx/allocated-license"> ... </allocated-license>
  < vr-name> vr-name </vr-name>
< /allocated-licenses-vr>
```

### Contents

< allocated-license>

Multiple tag: can occur zero or more times.  
[allocated-license](#)

< vr-name> —Virtual router name

