

# About This Guide

This preface provides the following guidelines for using *SDX-300 Software for Juniper Networks Routing Platforms Components Guide, Vol. 1*.

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## Objectives

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This guide provides an overview of the service activation engine (SAE) and describes how to use it. The guide also describes how to use the license server and SNMP agent and how to configure logging and the directory eventing system.



**NOTE:** If the information in the latest *SDX Release Notes* differs from the information in this guide, follow the *SDX Release Notes*.

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The SDX-300 software is the current implementation of the Service Deployment System software. We refer to the product throughout the documentation simply as the SDX software.

## Audience

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This guide is intended for experienced system and network specialists working with JUNOS routers and JUNOS routing platforms in an Internet access environment. We assume that readers are familiar with Lightweight Directory Access Protocol (LDAP) and the UNIX operating system. We also assume that readers know how to use the routing platforms, directories, and RADIUS servers that they will deploy in their SDX networks.

If you are using the SDX 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

The sample screens used throughout this guide are representations of the screens you will see when you install and configure the SDX software. The actual screens may differ.

For convenience and clarity, the installation and configuration examples show default file paths. If you do not accept the installation defaults, your paths will vary from the examples.

Table 1 defines notice icons used in this guide. Table 2 defines text conventions used throughout the 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.

**Table 2: Text Conventions**

Convention	Description	Examples
<b>Bold typeface</b>	Represents commands, keywords, scripts, options, and tools in text.	<ul style="list-style-type: none"> <li>■ Use the <b>pkgadd</b> tool.</li> <li>■ Specify the keyword <b>exp-msg</b>.</li> <li>■ Run the <b>install.sh</b> script with the <b>-unconfig</b> option.</li> </ul>
<b>Bold sans serif typeface</b>	Represents text that the user must type.	<b>user input</b>
Plain sans serif typeface	Represents information as displayed on your terminal's screen.	<pre>struct DirectoryAccessInfo {     sequence&lt;string&gt; ldapHost;     string baseDN; };</pre>
Angle brackets	Indicate variables.	Another runtime variable is <gfwif>.
Key name	Indicates the name of a key on the keyboard.	Press Enter.
Key names linked with a plus sign (+).	Indicates that you must press two or more keys simultaneously.	Press Ctrl + b.

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

Convention	Description	Examples
<i>Italics</i>	<ul style="list-style-type: none"> <li>■ Emphasize words.</li> <li>■ Identify chapter, appendix, and book names.</li> <li>■ Identify distinguished names.</li> <li>■ Identify 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>Chapter 2, Services</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.smgmt.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

## Related Juniper Networks Documentation

With each SDX-300 software release, we provide the *SDX-300 Documentation CD* (referred to as the SDX documentation CD), which contains the documentation described in Table 3.

With each SDX Application Library release, we provide the *SDX Application Library CD* (referred to as the application library CD). This CD contains both the software applications and the *SDX Application Library Guide*.

A complete list of abbreviations used in this document set, along with their spelled-out terms, is provided in the *SDX Software Basics Guide*.

**Table 3: Juniper Networks SDX Technical Publications**

Document	Description
<b>Core Documentation Set</b>	
<i>SDX Software Basics Guide</i>	Provides an overview of the SDX software, the installation procedures for the SDX software, and high-level instructions for SDX implementations. The guide also describes how to use the SDX configuration tools, and includes reference material for the SDX documentation.
<i>SDX Components Guide, Vol. 1</i>	Describes how to use the SAE, the License Manager, and the SNMP agent. For each SDX component, the guide provides an overview, installation details, configuration procedures, management information, and, if appropriate, API information. This guide also covers logging utilities and directory events for SDX components.
<i>SDX Components Guide, Vol. 2</i>	Describes how to use the residential portal, the enterprise portals, and the NIC. For each SDX component, the guide provides an overview, installation details, configuration procedures, management information, and, if appropriate, API information.
<i>SDX Integration Guide</i>	Describes how to integrate external components—routers, directories, and RADIUS servers—into the SDX network. The guide provides detailed information for integrating specific models of the external components, such as JUNOSe routers and JUNOS routing platforms.

**Table 3: Juniper Networks SDX Technical Publications (continued)**

Document	Description
<i>SDX Objects Guide</i>	Describes how to work with SDX objects such as subscribers, services, subscriptions, and policies. For each type of object, the guide provides an overview, information about creating the object, and information about managing the object. The guide also provides information about the SDX tools for configuring policies.
<i>SDX Comprehensive Index</i>	Provides a complete index of the SDX core documentation set.
<b>Application Library</b>	
<i>SDX Application Library Guide</i>	Describes how to install and work with applications that you can use to extend the capabilities of the SDX software. The guide documents the following applications: Advanced Services Gateway (ASG) Web applications, applications to integrate the Juniper Networks Intrusion Detection and Protection (IDP) software into an SDX-managed environment, an application to provide endpoint security by integrating Juniper Networks Instant Virtual Extranet (IVE) Host Checker, a traffic-mirroring Web application, an application to integrate IP address managers with the SAE, an application to provide tracking and QoS control at the application level by integrating the SDX software with the Ellacoya deep packet inspection (DPI) platform, a sample application to provide IP television (IPTV) services in the SDX network, an application to control volume usage, the Workflow application, Admission Control Plug-In, and a demonstration prepaid services application.
<b>Release Notes</b>	
<i>SDX Release Notes</i> <i>SDX Application Library Release Notes</i>	In the <i>Release Notes</i> , you will find the latest information about features, changes, known problems, resolved problems, and system maximum values. If the information in the <i>Release Notes</i> differs from the information found in the documentation set, follow the <i>Release Notes</i> .  Release notes are included in the corresponding software distribution and are available on the Web.

## Obtaining Documentation

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

To order printed copies of this manual and other Juniper Networks technical documents, or to order a documentation CD, which contains this manual, contact your sales representative.

## Documentation Feedback

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We encourage you to provide feedback, comments, and suggestions so that we can improve the documentation to better meet your needs. You can send your comments to [techpubs-comments@juniper.net](mailto:techpubs-comments@juniper.net), or fill out the documentation feedback form at <http://www.juniper.net/techpubs/docbug/docbugreport.html>.

If you are using e-mail, be sure to include the following information with your comments:

- Document name
- Document part number
- Page number
- Software release version

## Requesting Support

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For technical support, open a support case using the Case Manager link at <http://www.juniper.net/support/> or call 1-888-314-JTAC (from the United States, Canada, or Mexico) or 1-408-745-9500 (from elsewhere).

