

About This Guide

This *SDX Administration Guide* provides information about the administration and operations functions of the Service Deployment System (SDX) software.

For information on creating, customizing, and publishing active Web pages with SAE's application programming interface (API), see the *SDX Developer's Guide*.

The SDX-300 software is the current implementation of the Service Deployment System software. For simplicity throughout the documentation, the product is referred to as the SDX software.



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

Audience

This guide is intended for experienced system and network specialists working with E-series routers in an Internet access environment. Knowledge of Lightweight Directory Access Protocol (LDAP) directories and the UNIX operating system is a requirement.

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, and Table 2 defines text conventions used throughout the book.

Table 1 Notice icons




Icon	Meaning	Description
	Informational note	Indicates important features or instructions.
	Caution	Indicates that you may risk losing data or damaging your hardware.
	Warning	Alerts you to the risk of personal injury.

Table 2 Text conventions

Convention	Description	Examples
Bold typeface	Represents commands, keywords, scripts, options, and tools in text.	<ul style="list-style-type: none"> • Use the pkgadd command. • Specify the keyword exp-msg. • Run the install.sh script with the -unconfig option. • Use the pkgadd tool.
Courier typeface	Represents text that the user must type, code examples, and information as displayed on your terminal's screen.	<ul style="list-style-type: none"> • <code>user input</code> • <code>Server.AccessDenied</code> • <code>!Cops, /debug</code>
Angle brackets	Indicates variables or the name of a key on the keyboard.	<ul style="list-style-type: none"> • Another run-time variable is <code><gfwlf></code>. • Press <code><Enter></code>.
Key names linked with a plus sign (+) in angle brackets.	Indicates that you must press two or more keys simultaneously.	<ul style="list-style-type: none"> • Press <code><Ctrl+B></code>.
<i>Italics</i>	<ul style="list-style-type: none"> • Emphasize words. • Identify chapter, appendix, and book names. • Identify distinguished names • Identify files, directories, and paths 	<ul style="list-style-type: none"> • There are two levels of access: <i>user</i> and <i>privileged</i>. • <i>Chapter 2, Services</i>. • <i>o=Users, o=UMC</i> • The <i>/etc/default.properties</i> file.
Backslash	At the end of a line, indicates that the text wraps to the next line.	<code>Plugin.radiusAcct-1.class=\net.juniper.sgmt.sae.plugin\RADIUSTrackingPluginEvent</code>
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.)	<code>diagnostic line</code>

Interface Attribute Terminology

When an IP interface becomes active on the E-series router, a COPS message is sent to the SAE with the attributes of the interface, including its CLI name, description, and alias. These attributes can be seen on the SAE Web administration pages. See *Appendix B, COPS REQ Data on the SAE* for examples. The SAE uses interface attributes in both interface and user classifications rules and in the targets for next interface policy actions. Because of various de facto and IETF standards, the terminology for these attributes is somewhat confusing. The SAE uses the terminology of the IETF Interfaces MIB group (RFC 2863). Table 3 shows the mapping between the names of these attributes and the places where they are used.

Table 3 Interface attribute terminology

Attribute	Interfaces MIB group	JUNOSe CLI	SAE Web Admin	User and Interface Classifiers	Next Interface Policies	Sample Values in SAE
Interface name	ifName	Name used to reference the interface (for example, interface fastEthernet 4/7)	interface Name	interfaceName	name	FastEthernet4/7 (no space between type and slot)
Interface description	ifDescr	Automatically generated based on location and type of interface	ifDesc	ifDesc	description	IP4/7
Interface alias	ifAlias	Description of interface (for example, description access)	ifAlias	ifAlias	alias	Whatever is configured

Documentation

With each SDX-300 software release, we provide the *SDX-300 Documentation CD* (referred to as the SDX documentation CD), which contains the following documentation:

- *SDX Product Overview Guide* – Provides a complete overview of the SDX software. This guide contains general information about SDX components, subscriber registration, service definitions, service subscriptions, open interfaces, accounting capabilities, and customized enterprise access portals.
- *SDX Installation and Configuration Guide* – Provides installation and preliminary configuration procedures for the SDX software.
- *SDX Administration Guide* – Describes how to administer and operate the SDX software. This guide contains information about managing subscribers and subscriptions, portal configurations, policy management, and system management.
- *SDX Integration Guide* – Provides basic procedures for integrating RADIUS AAA and directory server solutions with the SDX software.
- *SDX Developer's Guide* – Describes how to develop residential and enterprise portals, how to work with the LDAP schema, how to work with NIC configurations, and how to use SDX interfaces.

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*. The *SDX Application Library Guide* describes how to install and work with the SDX gateway Web applications, the Workflow application, the Admission Control Plug-in, Inventory Importer, and the volume-tracking applications.

The documentation is also available on the Web. You can order a set of printed documents from your Juniper Networks sales representative.

Release Notes

The *SDX Release Notes* are included on the *SDX-300 Service Deployment System Software CD* and are available on the Web. In the *Release Notes*, you will find the latest information about features, changes, known problems, resolved problems, and system maximum values.

Abbreviations

A complete list of abbreviations used in this document set, along with their spelled-out terms, is provided in *SDX Product Overview Guide, Appendix A, Abbreviations*.

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To view the documentation on the Web, go to:

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