

Chapter 1

Installing the Sample SRC Applications

This chapter provides the installation instructions for the sample SRC applications. Topics include:

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SRC Software CDs

Juniper Networks provides the SRC applications and associated documentation on the *SRC Application Library CD*. This CD contains the component software, supporting applications, and *Release Notes* needed to install and operate the SRC application library. This CD also contains sample applications. We refer to this CD throughout this book as the application library CD.

The sample applications on the CD are distributed either as Solaris packages or Web applications in the */Demos + Sample_Applications* directory. Table 4 lists the sample applications provided on the CD.

Table 4: Sample Applications on the Application Library CD

Application	Type of Application	File on Application Library CD
IDP integration	Solaris package	UMCidp
Host Checker	Web application	/webapp/hostcheckPortal.war
IPTV application	Solaris package	UMCiptv
Monitoring Agent application	Solaris package	UMCmagt
Traffic Mirroring	Web application	/webapp/tmPortal.war

Table 4: Sample Applications on the Application Library CD (continued)

Application	Type of Application	File on Application Library CD
Prepaid services demonstration application	Solaris package	UMCpddemo
Sample residential portal	Web application	/webapp/ssportal.war

The SRC core software is distributed on *SRC-PE Software CDs*, referred to as the SRC software distribution. The SRC software distribution includes components that you will need for proper operation of the SRC applications, such as Java Runtime Environment (JRE). See the *SRC-PE Getting Started Guide* for complete information about installing the SRC core software.

Before You Install the Sample SRC Applications

Before you install any SRC application, read *SRC-PE Getting Started Guide, Chapter 33, Installing the SRC Software on a Solaris Platform*. The information in that chapter provides a useful background for installing the SRC applications. It includes information about installing necessary Solaris patches to the installation host, root versus nonroot users, establishing users and groups for software administration, and other topics you should consider before installing an SRC application.

The SRC sample applications are distributed as Solaris packages or Web application archive (WAR) files.

Table 5 lists the components for each sample application, their Solaris package names, and the directories where each component is installed by default. In Table 5, the directories listed are all subordinate to */opt/UMC*.

Table 5: Solaris Packages and Installation Folders for Sample Applications

Application	Components Supplied with SRC	Package	Installation Directory
IDP Integration	■ IDP Integration components	■ UMCidp	■ idp
IPTV application	■ Sample IPTV application	■ UMCiptv	■ iptv
	■ Java Runtime Environment	■ UMCjre	■ jre
	■ Python Runtime Environment (includes Python additional libraries)	■ SMCpython and UMCpyadd	■ python
Monitoring Agent	■ Packet capture event integration	■ UMCmagt	■ monAgent
Prepaid services demonstration application	■ Prepaid services demonstration application	■ UMCpddemo	■ prepaid

Installation Prerequisites

Consider the following information before you begin installation of the SRC sample applications.

Solaris Patches

Be sure that the installation host is up to date with Sun's recommended patches for the Solaris operating system. See *SRC-PE Getting Started Guide, Chapter 32, Before You Install the SRC Software on a Solaris Platform* for information about installing patches.

Installing SRC Application Packages

To install an application library package:

1. On the UNIX host where you will install the application library software, log in as `root`.
2. Place the application library CD in the CD drive.
3. Launch the `pkgadd` tool.

`pkgadd -d /cdrom/cdrom0/Demos+Sample_Applications`

The tool displays the available Solaris packages.

4. Enter the desired package(s).

You can enter the name or number for a single package, multiple packages separated by spaces, or the keyword **all** to select all the packages.

The tool displays the license agreement.

5. Press Enter to move through the agreement, and then enter **y** to accept the license agreement when prompted by the tool.
6. Follow the prompt directions to accept the installation directory for the package, to permit the use of superuser scripts required for the package, and so on.



NOTE: You can use the UNIX `swmtool` command to install the application packages, but this method requires that you install each application separately. If you use `admintool` directly, you can install multiple applications at the same time.

Uninstalling SRC Packages

Use the `pkgrm` command to uninstall application library components. For example, to remove the Monitoring Agent package, issue the following command, and respond as prompted by the process:

`pkgrm UMCmagt`

Installing Sample SRC Data

After you have installed the SRC software, you can load sample data for the following sample applications on the application library CD:

- Intrusion Detection and Prevention (IDP) integration application
- Instant Virtual Extremity (IVE) Host Checker integration application
- Traffic-Mirroring Application

To install the sample data from the application library CD:

1. From the application library CD, run the following command from the `/conf` directory, and specify the absolute pathname for the location of the sample configuration files:

```
./load_app_conf.sh <pathname>
```

For example, the following command specifies that the sample files are located in the same directory as the command on the application library CD:

```
./load_app_conf.sh /cdrom/cdrom0/conf
```

The list of applications for which you can install sample data appears.

2. Select the number(s) that identify the sample data to install.
3. When you finish installing sample data, select **5** to exit from the script.

You can also load sample data with the SRC CLI for all the sample applications, including the following sample residential portal applications:

- Equipment registration mode
- Internet service provider (ISP) mode

For more information about loading sample data with the SRC CLI, see *SRC-PE Getting Started Guide, Chapter 20, Managing the Juniper Networks Database with the SRC CLI*.

Installing SRC Web Applications

We supply one WAR file for each Web application on the application library CD. Web applications must be deployed in a Web application server. For more information about Web applications, see *SRC-PE Getting Started Guide, Chapter 38, Installing Web Applications*.

The exact way you install Web applications depends on the Web application server you are using and the particular Web application.

The following procedure provides general steps for installing a Web application:

1. Install the Web application server on the host.
2. If the Web application requires configuration of a properties file, complete the following procedure:
 - a. Copy the WAR file from the application library CD to a temporary folder on the host.
 - b. Unpack the WAR file.

For information about unpacking and packing WAR files, see

<http://java.sun.com/j2se/1.4/docs/guide/jar/>

- c. Edit the properties file for the Web application.
 - d. Repack the WAR file.
3. Deploy the WAR file by using the procedure appropriate for your Web application server.

For information about deploying WAR files, see the documentation for your Web application software.

Installing Web Applications Inside JBoss

We provide the JBoss Web application server in the SRC software distribution. JBoss is an open-source Java application server that provides full support for J2EE application programming interfaces (APIs). To deploy a Web application inside JBoss:

1. Install the *UMCjboss* package from the SRC software distribution.

See *SRC-PE Getting Started Guide, Chapter 33, Installing the SRC Software on a Solaris Platform* for information about using the Solaris **pkgadd** utility to install the package.
2. During the installation, choose a JBoss configuration when prompted; typically choose the default configuration.
3. Customize the properties file for the Web application.
4. Deploy the WAR file by copying it into the JBoss *default/deploy* directory.

cp <filename>.war /opt/UMC/jboss/server/default/deploy

JBoss automatically starts the Web application when a new WAR file is copied into the deploy directory.

Removing SRC Web Applications

The way you remove a Web application depends on the Web application server that you are using. Refer to the documentation on removing Web applications for your server.

Removing a Web Application from JBoss

To undeploy a Web application from JBoss, remove the WAR file from the JBoss *default/deploy* directory.

Reviewing Port Settings for Sample SRC Applications

If you use firewall software within your internal network, ensure that firewall settings allow traffic to and from the following ports for the sample applications that you implement in your environment. Table 6 lists the default port settings for the sample SRC applications.

Table 6: Default Port Settings for Sample SRC Applications

Component	Type of Communication	Default Port Setting
Prepaid services application	Communication between the prepaid services Web application and an account server	TCP 8803