

## Chapter 3

# Integrating eTrust Directory

Computer Associates International, Inc provides eTrust Directory, a directory server. Use the information in this chapter to integrate eTrust Directory with Juniper Networks routers and the SRC software. See the *SRC-PE Release Notes* for information about the compatibility of this SRC release with versions of eTrust Directory.

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## Overview of Integration with eTrust Directory

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You can integrate eTrust Directory into your SRC environment by installing the directory software; and then running scripts that are installed from the SRC add-on package for eTrust Directory. eTrust Directory supports LDAP v3 and is designed to provide performance, scalability, and security.

### About the eTrust Directory Add-On Package

The eTrust Directory add-on package for the SRC software is named UMCedsa. This package includes two scripts:

- **setup.sh**—Creates and configures SDX eTrust Directory Server Agent (jnprsdx).
- **load**—Customizes SDX eTrust Directory Server Agent by loading files in LDAP Data Interchange Format (LDIF). The `/opt/UMC/conf/etrust/sdx_ldif` directory contains these files.

The **setup.sh** script performs the following tasks:

- Creates the initialization file for SDX eTrust Directory Agent in the following directory:
  - < eTrust\_home\_directory > /dxserver/config/servers
- Specifies that SDX eTrust Directory Agent use the following schema configuration files located in the file
  - < eTrust\_home\_directory > /dxserver/config/schema/jnprsdx.dxc. This file defines the groups of schema definition files that the SRC software requires:
    - *x500.dxc*—Defined and required by eTrust.
    - *cosine.dxc*—Defined and required by eTrust.
    - *umich.dxc*—Defined and required by eTrust.
    - *inetop.dxc*—Defined and required by eTrust.
    - *dxserver.dxc*—Defined and required by eTrust.
    - *jnprsdx\_schema.dxc*—Defined and required by the SRC software. This file contains all SDX attribute and object class definitions.
- Creates the following configuration files and defines configuration settings for SDX eTrust Directory Agent in each file.
  - < eTrust\_home\_directory > /dxserver/config/access/jnprsdx.dxc—Specifies access control parameters.
  - < eTrust\_home\_directory > /dxserver/config/database/jnprsdx\_index.dxc—Specifies index configuration.
  - < eTrust\_home\_directory > /dxserver/config/database/jnprsdx.dxc—Specifies jnprsdx as the database name.
  - < eTrust\_home\_directory > /dxserver/config/knowledge/jnprsdx.dxc—Specifies information about connectivity, protocols used, authentication, and the root entry for the directory.
  - < eTrust\_home\_directory > /dxserver/config/limits/jnprsdx.dxc— Specifies operational parameters for the database.
  - < eTrust\_home\_directory > /dxserver/config/logging/jnprsdx.dxc— Specifies logging parameters.
  - < eTrust\_home\_directory > /dxserver/config/settings/jnprsdx.dxc— Specifies default settings for the database. These entries include parameters specific to the SRC software.

- Specifies operating parameters that include size and time limits and default settings for SDX eTrust Directory Agent.



**NOTE:** You configure replication within eTrust Directory. See the documentation for eTrust Directory.

## Integrating the eTrust Directory with the SRC Software

The tasks to integrate the eTrust Directory software with the SRC software are:

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2. Configuring the SDX eTrust Directory Server Agent with the SRC Software on page 35

### Installing eTrust Directory to Integrate with the SRC Software

To install eTrust Directory:

- Use the eTrust express installation to install eTrust Directory on your Solaris platform. See the documentation for eTrust Directory.

The installation process creates a user ID named `dsa` that is the administrator user ID for eTrust Directory. Assign a password to this user ID.

### Configuring the SDX eTrust Directory Server Agent with the SRC Software

You integrate eTrust Directory with the SRC software by running commands provided by the eTrust Directory add-on package.

Before you run these commands, ensure that the add-on package is installed on the system on which the eTrust Directory is installed. For information about installing the package, see *SRC-PE Getting Started Guide, Chapter 33, Installing the SRC Software on a Solaris Platform*.

To integrate eTrust Directory:

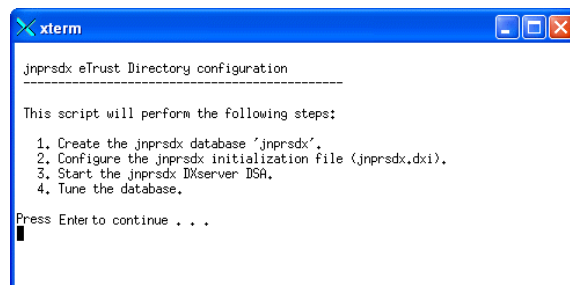
1. Navigate to the following directory:

**`/opt/UMC/conf/etrust`**

2. Log in using the **`dsa`** user ID and the associated password, and run the **`setup.sh`** script by entering the following command:

**`./setup.sh`**

When the script starts, you see the following information on the screen:



```

xterm
jnprsdX eTrust Directory configuration
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This script will perform the following steps:
1. Create the jnprsdX database 'jnprsdX'.
2. Configure the jnprsdX initialization file (jnprsdX.dxi).
3. Start the jnprsdX IDserver DSA.
4. Tune the database.
Press Enter to continue . . .

```

3. Login as **root** and run the **load** script by entering the following command:

**./load**

4. Select sample data to load when prompted.

When the sample data is loading, you may see messages that indicate that some entries are already present. The **load** script generates these messages for different LDIF files that contain the same data. You can ignore these messages.

For information about the tasks that the script completes, see *About the eTrust Directory Add-On Package* on page 33.

## Starting SDX eTrust Directory

To start SDX eTrust Directory:

1. Navigate to the SDX eTrust installation directory (*/opt/UMC/conf/etrust* by default).
2. Log in using the **dsa** user ID and the associated password.
3. Start the SDX eTrust Directory Agent from its installation directory.

**/opt/UMC/conf/etrust/ldap start**

For more information about starting an instance of eTrust Directory, see the product documentation for the directory.

## Stopping SDX eTrust Directory

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To stop SDX eTrust Directory:

1. Navigate to the SDX eTrust installation directory (*/opt/UMC/conf/etrust* by default).
2. Log in using the **dsa** user ID and the associated password.
3. Stop the SDX eTrust Directory Agent from its installation directory.

**`/opt/UMC/conf/etrust/ldap stop`**

For more information about stopping an instance of eTrust Directory, see the product documentation for the directory.

## Displaying the Status of SDX eTrust Directory

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To display the status of SDX eTrust Directory:

1. Navigate to the SDX eTrust installation directory (*/opt/UMC/conf/etrust* by default).
2. Log in using the **dsa** user ID and the associated password.
3. Display the status of the SDX eTrust Directory Agent from its installation directory.

**`/opt/UMC/conf/etrust/ldap status`**

## Backing Up and Restoring eTrust Directory

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For information about how to backup and restore an eTrust Directory, see the product documentation for the directory.

We recommend that you restart SRC components after restoring directory data from a backup, to ensure that the restored database is used.

