

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 SDX software. See the *SDX Release Notes* for information about the compatibility of this SDX release with versions of eTrust Directory.

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Overview of Integration with eTrust Directory

You can integrate eTrust Directory into your SDX environment by installing the directory software; and then running scripts that are installed from the SDX 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 SDX 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 SDX 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 SDX 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 SDX 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 SDX Software

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

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Installing eTrust Directory to Integrate with the SDX Software

To install eTrust Directory:

- Use the eTrust express installation to install eTrust Directory on your Solaris system. 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

You integrate eTrust Directory with the SDX 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 *SDX Getting Started Guide, Chapter 5, Installing the SDX-300 Software*.

To integrate eTrust Directory:

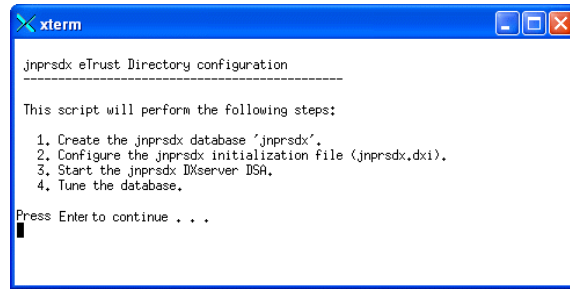
1. Navigate to the following directory:

`/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
-----
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 DSA server DSA.
4. Tune the database.
Press Enter to continue . . .
```

3. Log in 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 43.

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

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

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

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

