

Chapter 4

Integrating Oracle Internet Directory

Oracle Internet Directory is a software component in the Oracle Application Server 10g by Oracle Corporation. Use the information in this chapter to integrate Oracle Internet 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 Oracle Internet Directory.

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Overview of Oracle Internet Directory Integration

You can integrate Oracle Internet Directory into your SDX environment by installing the directory software and selecting configuration values to support integration with the SDX software. After you install the Oracle Internet Directory, you run a **load** script that is installed from the SDX add-on package for Oracle Internet Directory. Oracle Internet Directory supports LDAP v3 and provides scalability, reliability, and flexibility.

If you use a RADIUS server and use Oracle Internet Directory in your environment, you can use a supported RADIUS server other than Merit AAA Server. Merit AAA Server requires that passwords be stored as clear text; however, the installation for Oracle Internet Directory recommended for integration with the SDX software uses password encryption.

About the Oracle Internet Directory Add-On Package

The Oracle Internet Directory add-on package for the SDX software is named UMCOIDa. This package provides a **load** script and files in LDAP Data Interchange Format (LDIF) to integrate Oracle Internet Directory with the SDX software. The */opt/UMC/conf/OID* directory contains these files. If you try to run the **load** script for Oracle Internet Directory and the directory software is not installed, you receive a message to indicate that the directory is not installed on your host.

The **load** script performs the following tasks:

- Defines access permission to Oracle Internet Directory by using the following values:
 - Root DN—cn = oracladmin
 - Root password—admin123
 - LDAP port number—389



You configure access controls within Oracle Internet Directory. See the documentation for Oracle Internet Directory.

- Sets password encryption to Secure Hash Algorithm (SHA)
- Disables checking of the password syntax to make syntax compatible with the length of passwords in the sample data
- Extends the LDAP schema to:
 - Add classes and attribute types
 - Index SDX attributes
 - Create the directory infrastructure for SDX entries
- Lets you load sample data

Integrating the Oracle Internet Directory with the SDX Software

The tasks to integrate the Oracle Internet Directory software with the SDX software are:

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Installing Oracle Internet Directory to Integrate with the SDX Software

For information about the Oracle Internet Directory component of Oracle Application Server 10g, see the Oracle Web site at:

<http://www.oracle.com/appserver/index.html>

Before You Install Oracle Internet Directory

Before you install Oracle Internet Directory, complete the following tasks from Solaris Management Console. You can start Solaris Management Console by using the command **usr/sadm/bin/smc**.

1. Create a new group **oinstall** to identify users who have privileges to install Oracle Internet Directory.
2. Create a new user named **oracle** with the password **admin123** who belongs to the oinstall group.

Specifying Configuration Values During Installation

To install and configure Oracle Internet Directory, see the documentation for the product. During the installation, enter values in the installation program for the configuration fields described in the following list. Complete values for other fields as required for your environment.

- Components to install—Component group that includes the Internet Directory and the metadata repository; for example, Identity Management and Metadata Repository.
- NameSpace in the Oracle Internet Directory—UMC
- Database naming values for the global database name and the Oracle System Identifier (SID)—Values that comply with a domain name. For example, for a Juniper domain you could specify a global database name of sdxdb.juniper, and an SID of sdxdb.
- Database character set—Unicode (UTF-8)
- Database schema passwords for SYS, SYSTEM, SYSMAN, and DBSNMP—admin123
- Instance name and password:
 - Instance name—sdx
 - ias_admin password—admin123

If you are setting up a redundant configuration, see the documentation for Oracle Internet Directory.

Verifying Directory Settings

After you install Oracle Internet Directory, the LDAP server and the database instance are running. Verify the configuration values for port that the directory uses, the superadministrator DN, and the password.

To verify configuration information:

1. Open the `<ORACLE_HOME>/OraHome1/install/portlist.ini` file.
2. Verify that the following values are set in the file:
 - Oracle Internet Directory port—389
 - DN for superadministrator—cn = orcladmin
 - Password for superadministrator—admin123

Running the Load Script for the Oracle Internet Directory Integration

You integrate Oracle Internet Directory with the SDX software by running the **load** command for the Oracle Internet Directory add-on package. Before you run this command the add-on package must be installed on the system on which Oracle Internet Directory runs. For information about installing the package, see *SDX Getting Started Guide, Chapter 5, Installing the SDX-300 Software*.

To run the **load** script:

1. Enter the following command:

```
/opt/UMC/conf/OID/load
```

If the **load** script does not encounter any errors, you receive a message that indicates that the script set the Oracle Internet Directory home directory. This message also lists the DN for superadministrator, password for superadministrator, and Oracle Internet Directory port. Otherwise, messages notify you of errors detected.

2. Select sample data to load when prompted.

For information about the tasks that the script completes, see *About the Oracle Internet Directory Add-On Package* on page 50.

Starting and Stopping Oracle Internet Directory

For information about how to start and stop an instance of Oracle Internet Directory, see the documentation for that product.

Setting Up Local Configuration for SDX Components

When you set up the local configuration for SDX components, such as license server, the SAE, and NIC, as well as RADIUS and Web applications, you specify information for the directory configuration. For components to use Oracle Internet Directory, you specify the configuration directory password as admin123.

Backing Up and Restoring the Oracle Internet Directory

For information about how to backup and restore an Oracle Internet Directory, see the product documentation for the directory. Refer to the Oracle Web site at:

<http://www.oracle.com/appserver/index.html>

