HP OpenView Select Identity

Connector for Sun ONE Directory Server (One-Way LDAP Based)

Software Version: 4.3

Installation and Configuration Guide

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- Commons-beanutils
- Commons-collections
- Commons-logging
- Commons-digester
- Commons-httpclient
- Element Construction Set (ecs)
- Jakarta-poi
- Jakarta-regexp
- Logging Services (log4j)

Additional third party software used by Select Identity includes:

- JasperReports developed by SourceForge
- iText (for JasperReports) developed by SourceForge
- BeanShell
- Xalan from the Apache XML Project
- Xerces from the Apache XML Project
- Java API for XML Processing from the Apache XML Project
- SOAP developed by the Apache Software Foundation
- JavaMail from SUN Reference Implementation
- Java Secure Socket Extension (JSSE) from SUN Reference Implementation
- Java Cryptography Extension (JCE) from SUN Reference Implementation
- JavaBeans Activation Framework (JAF) from SUN Reference Implementation

- OpenSPML Toolkit from OpenSPML.org

- JGraph developed by JGraph

- Hibernate from Hibernate.org

- BouncyCastle engine for keystore management, bouncycastle.org

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- Manage a support contract

- Look up HP support contacts

- Review information about available services

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Contents

1 Documentation Map

This chapter describes the organization of HP OpenView Select Identity connector documentation and provides necessary information on how to use the documentation set to install and configure the connectors.

Figure 1 illustrates the documentation map for HP OpenView Select Identity connector. For a list of available product documentation, refer to the Table 1.
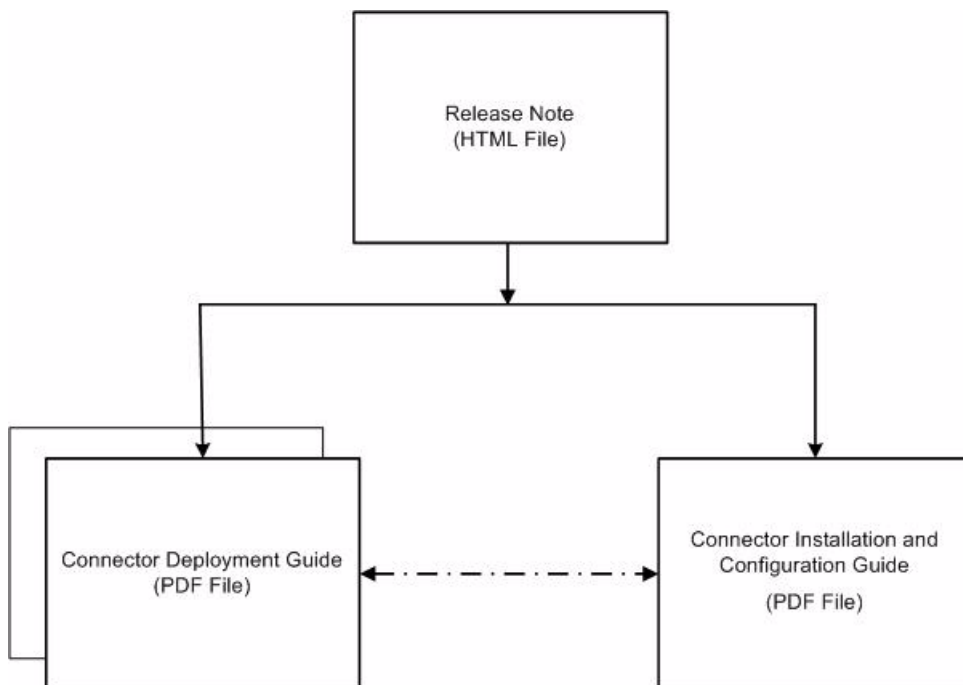
Figure 1   Documentation Map

Table 1   Connector Documentation

Document Title and Filename	Contents	Location
Release Note `Sun ONE LDAP Connector v4.3 Release Note.htm`	This file contains necessary information on new features of the connector, enhancements, known problems or limitations, and support information.	`/Docs/` subdirectory under the connector directory.
Connector Deployment Guide (for Select Identity 4.0/4.01.000) `connector_deploy_SI4.pdf`	Connector deployment guides provide detailed information on: • Deploying a connector on an application server. • Configuring a connector with Select Identity. Refer to these guides when you need generic information on connector installation.	`/Docs/` subdirectory under the connector directory.
Connector Installation and Configuration Guide `Sun ONE LDAP_install.pdf`	Connector installation and configuration guide provides installation instructions for a specific connector. It contains resource specific configuration details.	`/Docs/` subdirectory under the connector directory.

2 Introduction

This chapter gives an overview of the HP OpenView Select Identity connector for Sun ONE Directory Server. An HP OpenView Select Identity connector enables you to provision users and manage identities on Sun ONE Directory Server. At the end of this chapter, you will be able to know about:

- The benefits of HP OpenView Select Identity.
- The role of a connector.
- The connector for Sun ONE Directory Server.

About HP OpenView Select Identity

HP OpenView Select Identity provides a new approach to identity management. It helps you manage the entire identity lifecycle of an enterprise application. Select Identity helps you automate the process of provisioning and managing user accounts and access privileges across platforms, applications, and corporate boundaries. Select Identity communicates with the enterprise information system through connectors, and automates the tasks of identity management. The enterprise information system, which is also referred to as **resource**, can be a database, a directory service, or an ERP package, among many others.

About Connectors

You can establish a connection between a resource and Select Identity by using a connector. A connector is resource specific. It is installed on the system where Select Identity is installed. The combination of Select Identity and connector helps you perform a set of tasks on the resource to manage identity. A connector can be **unidirectional** or **bidirectional**. A unidirectional connector helps you manage identities from Select Identity, but if any change takes place in resource, it cannot communicate that back to Select Identity. On the other hand, a bidirectional connector can reflect the changes made on resource back to Select Identity. This property of bidirectional connectors is known as **reverse synchronization**.

About Sun ONE LDAP Connector

The one-way LDAP based connector for Sun ONE Directory Server — hereafter referred to as Sun ONE LDAP connector — enables HP OpenView Select Identity to Select Identity to perform the following operations on Sun ONE Directory Server server:

- Add, update, and remove users

- Retrieve user attributes

- Enable and disable users

- Verify a user's existence

- Change user passwords

- Reset user passwords

- Retrieve all entitlements

- Retrieve a list of supported user attributes

- Grant and revoke entitlements to and from users, including the addition of users to multiple OUs.

The Sun ONE LDAP connector is a one-way connector that pushes changes made to user data in the Select Identity database to a target Sun ONE Directory Server server. The mapping file controls how Select Identity fields are mapped to LDAP fields..

This connector can be used with Select Identity 4.01.000 and 4.0.

Overview of Installation Tasks

Before you start installing the connector, you must ensure that system requirements and all the installation prerequisites are met. Refer to the Table 2 for an overview of installation tasks.

Table 2   Organization of Tasks

Task Number	Task Name	Reference
1	Install the connector on the Select Identity server.	See Installing the Connector on page 13.
	— Meet the system requirements.	See System Requirements on page 13.
	— Extract contents of the Schema file (file that contains the mapping files for the connector) to location on the Select Identity server.	See Extracting Contents of the Schema File on page 14.
	— Install the Resource Adapter Archive (RAR) of the connector on an application server.	See Installing the Connector RAR on page 14.
2	Configure the connector with the Select Identity server.	See Configuring the Connector with Select Identity on page 15.

3 Installing the Connector

This chapter elaborates the procedure to install Sun ONE LDAP on Select Identity server and agent on Sun ONE Directory Server. At the end of this chapter, you will know about

- Software requirements to install the Sun ONE LDAP connector.
- Prerequisite conditions to install Sun ONE LDAP connector.
- Procedure to install Sun ONE LDAP connector.

Sun ONE LDAP Connector Files

Sun ONE LDAP connector is packaged with the following files.

Table 3   Sun ONE LDAP Connector Files

Serial Number	File Name	Description
1	TALDAPv3.rar	The connector RAR file (the binaries).
2	schema.jar	It contains the attribute mapping file (SunOne40.xml) for this system, which control how Select Identity fields are mapped to Sun ONE Directory Server LDAP fields.

These files are located in the LDAP Sun ONE directory on the Select Identity Connector CD.

System Requirements

The Sun ONE LDAP connector is supported in the following environment:

Table 4   Platform Matrix for the Sun ONE LDAP Connector

Select Identity Version	Application Server	Database
4.0/4.01.000	The Sun ONE LDAP connector is supported on all the platform configurations of Select Identity 4.0 and 4.01.000.	

This connector is supported with Sun ONE Directory Server 5.0 and Sun ONE Directory Server 5.2 on Windows 2000, Solaris 9, and HP-UX 11i.

The Sun ONE LDAP connector is internationalized and able to operate with languages that are supported by the Java Unicode specification. If you wish to use the connector on non-English platforms, make sure that the following prerequisites are met:

- The Select Identity server should be configured for internationalization. Refer to the *HP OpenView Select Identity Installation and Configuration Guide* for more information.

- The resource should be configured to support local language characters.

Extracting Contents of the Schema File

The Schema file of the connector contains necessary mapping information to map resource attributes to Select Identity. Extract contents of the `schema.jar` file to a directory that is in the application server `CLASSPATH`. Refer to the *HP OpenView Select Identity Connector Deployment Guide* for detailed instruction to extract contents of the Schema file.

Installing the Connector RAR

To install the RAR file of the connector (`TALDAPv3.rar`) on the Select Identity server, you must copy the file to a local subdirectory on the Select Identity server, and then deploy on the application server. Refer to the *HP OpenView Select Identity Connector Deployment Guide* for detailed information on deploying a RAR file on an application server.

While deploying the RAR on WebSphere, enter the JNDI Pool Name as **eis/LDAPv3**.

After deploying the connector RAR on application server, you must configure Sun ONE LDAP connector with Select Identity. Refer to Configuring the Connector with Select Identity on page 15 for configuration steps.

4 Configuring the Connector with Select Identity

This chapter describes the procedure to configure the Sun ONE LDAP connector with Select Identity. At the end of this chapter, you will know the procedure to configure the Sun ONE LDAP connector with Select Identity.

Configuration Procedure

After you deploy the connector RAR on application server, you must configure the connector with Select Identity. Perform the following steps to configure the Sun ONE LDAP connector with Select Identity.

1 Add a New Connector

2 Add a New Resource

3 Map Attributes

Add a New Connector

Add a new connector in Select Identity by using the user interface. While adding the connector, do the following:

- In the Connector Name text box, specify a name for the connector.

- In the Pool Name text box, enter **eis/LDAPv3**.

- Select No for the Mapper Available section.

Refer to the *HP OpenView Select Identity Connector Deployment Guide* for detailed information on adding a new connector in Select Identity.

Add a New Resource

Add a new resource in Select Identity that uses the newly added connector. Refer to the *HP OpenView Select Identity Connector Deployment Guide* for detailed instructions on adding a resource in Select Identity.

Refer to the following table while entering the parameters in the Basic Information and the Access Information pages:

Table 5   Resource Configuration Parameters

Field Name	Sample Values	Description
Resource Name	local_sunONE	Name of the target resource.
Connector Name	Sun ONE	The newly deployed connector.
Authoritative Source	No	Whether this resource is a system that is considered to be the authoritative source for user data in your environment. You must specify **No** because the connector cannot synchronize account data with the Select Identity server.
Delete User	No	Specifies whether the user should be deleted from the resource when a DeleteServiceMembership operation is performed for the user in Select Identity.
Access URL	ldap://136.168.1.20:389	URL to access the resource.
Suffix	dc=qa, dc=hp, dc=com	The domain(s) to which the users will be provisioned.
Login Name	cn=Administrator, cn=Users, dc=qa, dc=hp, dc=com	Login account with administrative privileges to add and delete users. This is required to log in to the resource.
Password	Password123	Password corresponding to the login account.
User Suffix	ou=people	Suffix of user's distinguished name. This is the location in the tree where the users will be provisioned.
User Object Class	top,person,organizationalperson,inetorgperson	Object class for the users.
Group Suffix	ou=people	Suffix part of group's distinguished name. This is the location in the tree where the user groups will be provisioned. This parameter is optional (you can leave this field blank).

Table 5   Resource Configuration Parameters

Field Name	Sample Values	Description
Group Object Class	top, groupofuniquenames	Object class of user groups.
Mapping File	SunOne40.xml	Location of the connector mapping file, which is used to map resource attributes to Select Identity attributes.
Cleanup Groups	Selected	Whether to delete the user's entitlements when the user is deleted from Select Identity.

*Instead of creating an authoritative resource, you can create authoritative attributes (in the next step) for the attributes that will be synchronized. Entitlements are authoritative by default in a non-authoritative resource but other attributes are not.

Map Attributes

After successfully adding a resource for the Sun ONE LDAP connector, you must map the resource attributes to Select Identity attributes. Refer to the *HP OpenView Select Identity Connector Deployment Guide* for information on mapping and creating attributes. While mapping attributes, refer to the following table for resource specific mapping information.

Table 6   Sun ONE LDAP Mapping Information

Select Identity Resource Attribute	Sun ONE LDAP Attribute	Description
UserName	uid	Key field on the resource
Password	userpassword	
Email	mail	
FirstName	givenname	
LastName	sn	
FirstName + LastName	cn	
Address 1	postalAddress	
Address 2	roomNumber	
City	l	
State	st	
Zip	postalCode	
Title	title	
Employee ID	employeenumber	
Business Phone	telephoneNumber	

Table 6   Sun ONE LDAP Mapping Information

Select Identity Resource Attribute	Sun ONE LDAP Attribute	Description
Disable Function	Description="disabled"	Marks the user as disabled
Enable Function	Description="enabled"	Marks the user as enabled
mailHost	mailHost	Mail-related attributes
maildeliveryoption	mailDeliveryOption	
mailQuota	mailQuota	
nslicensedfor	nslicensedfor	
mailAlternateAddress	mailAlternateAddress	
mailForwardingAddress	mailForwardingAddress	
nscalorgunit2	nscalorgunit2	Calendar-related attributes
nscalpasswordrequired	nscalpasswordrequired	
nscalxitemid	nscalxitemid	
nscalflags	nscalflags	
nscallanguageid	nscallanguageid	
nscalsysopcanwrite password	nscalsysopcanwrite password	
nscaldefaultnotereminder	nscaldefaultnotereminder	

After mapping the attributes, you can use the connector to create a service, or you can associate the connector with an existing service. Refer to the *Service Studio* chapter of the *HP OpenView Select Identity Administrator Guide* for information on Select Identity services.

5 Uninstalling the Connector

If you want to uninstall a connector from Select Identity, perform the following steps:

- Remove all resource dependencies.
- Delete the connector from Select Identity.
- Delete the connector from application server.

See *HP OpenView Select Identity Deployment Guide* to for information on deleting a connector from Select Identity and application server.