HP OpenView Select Identity

Connector for Oracle® Internet Directory

Connector Version: 4.2

Installation and Configuration Guide

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Select Identity uses software from the Apache Jakarta Project including:

- 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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- Review information about available services

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1 Introduction

This chapter gives an overview of the HP OpenView Select Identity connector for Oracle Internet Directory. An HP OpenView Select Identity connector allows you to provision users and manage identities on Oracle Internet 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 Oracle Internet Directory

About HP OpenView Select Identity

HP OpenView Select Identity (OVSI) provides a new approach to identity management. It helps you manage the entire identity lifecycle of an enterprise application. By using OVSI, you can automate the process of provisioning and managing user accounts and access privileges across platforms, applications, and corporate boundaries. OVSI 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 OVSI by using a connector. A connector is resource specific. It is installed on the system where OVSI is installed. The combination of OVSI 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 OVSI, but if any change takes place in resource, it cannot communicate that back to OVSI. On the other hand, a bidirectional connector can reflect the changes made on resource back to OVSI. This property of bidirectional connectors is known as **reverse synchronization**.

About Oracle Internet Directory Connector

The connector for Oracle Internet Directory server version 5.2 — hereafter referred to as Oracle Internet Directory connector — enables you to perform the following tasks on Oracle Internet Directory by using OVSI.

- 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 Operating Units
- Change log retrieval

This connector can be used with OVSI version 4.0.

2 Installing the Connector

Oracle Internet Directory connector is packaged with the following files.

Table 1   Oracle Internet Directory Connector Files

Serial Number	File Name	Description
1.0	TALDAPv3.rar	It is the Resource Adapter Archive (RAR) file for the connector. It contains the connector binary files.
2.0	schema.jar	It contains the attribute mapping file (oid40.xml) for this system, which controls how the OVSI fields are mapped to Oracle Internet Directory server LDAP fields.

These files are located in the `LDAP Oracle Internet Directory` directory on the Select Identity Connector CD.

System Requirements

The Oracle Internet Directory connector is supported in the following environment:

Table 2   Platform Matrix for Oracle Internet Directory Connector

Select Identity Version	Application Server	Database
3.0.2	WebLogic 8.1.2 on Windows 2000	SQL Server 2000
	WebLogic 8.1.2 on Windows 2003	SQL Server 2000
	WebLogic 8.1.2 on Solaris 9	Oracle 9i
	WebSphere 5.1.1 on Windows 2000	DB2 8.2 (or DB2 8.1 Service Pack 7)

Table 2   Platform Matrix for Oracle Internet Directory Connector

Select Identity Version	Application Server	Database
3.3	WebLogic 8.1.4 on Windows 2003	SQL Server 2000
3.3.1	WebLogic 8.1.4 on Windows 2003	SQL Server 2000
	WebSphere 5.1.1 on HP-UX 11i	Oracle 9i
4.0	The Oracle Internet Directory connector is supported on all the platform configurations of Select Identity 4.0.	

This connector is supported with Oracle Internet Directory 9.0.2 on Windows 2000.

Installation Procedure

Perform the following tasks to install the Oracle Internet Directory connector on OVSI system.

1   Extract the Contents of Schema File

2   Deploy the Connector on Application Server

3   Configure the Connector with OVSI

Extract the Contents of Schema File

Create a subdirectory in the OVSI home directory on OVSI system. Extract the contents of schema.jar file to this subdirectory. Ensure that the CLASSPATH environment variable in the application server startup script references this Schema subdirectory.

Deploy the Connector on Application Server

You must deploy the RAR file (TALDAPv3.rar) of the connector on an application server. Before deploying the RAR file, you must copy it to a local directory from the connector CD. Refer to *HP OpenView Select Identity Connector Deployment Guide* for more information on deploying a connector on an application server.

Configure the Connector with OVSI

After deploying the connector to an application server, you must configure it with OVSI. Before configuring the connector with OVSI, connect to the Lightweight Directory Access Protocol (LDAP) server by using an LDAP browser or any other utility. This can ensure that the LDAP resource is available and the correct parameters are known before deploying the resource in OVSI.

To configure the connector with OVSI, perform the following steps.

1 Add a new connector – Add a new connector on OVSI. Refer to *HP OpenView Select Identity Connector Deployment Guide* for information on adding a new connector. While adding the connector, under Current Resource Connectors section in Manage Connectors page, do the following:

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

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

   — Under Mapper Available section, select **No.**

2 Add a resource — You must add a resource to OVSI that uses the newly added connector. Refer to *HP OpenView Select Identity Connector Deployment Guide* for the instructions to achieve this. While entering the resource parameters for Oracle Internet Directory connector, refer to the table below.

Table 3   Resource Configuration Parameters

Field Name	Sample Values	Description
Resource Name	*Oracle*	Name of the target resource.
Resource Type	*OID*	The connector that was deployed in step 1 on page 11.
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.
Associate to Group	*Selected*	Whether the system uses the concept of groups. For this LDAP connector, select this option.
Access URL	*ldap://server1:3060*	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-orcladmin*	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	*cn=users*	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, orclprivilegegroup, orcluser,orcluserV2*	Object class for the users.

Table 3   Resource Configuration Parameters

Field Name	Sample Values	Description
Group Suffix	*cn=groups*	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).
Group Object Class	*Top, groupofuniquenames*	Object class of user groups.
Mapping File	`oid40.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.

3   Map the attributes — You must map the OVSI attributes to the attributes of the resource. Refer to *HP OpenView Select Identity Connector Deployment Guide* for information on mapping attributes. While mapping the attributes, refer to the following table for resource specific mapping information.

Table 4   Oracle Internet Directory Mapping Information

Select Identity Resource Attribute	OID LDAP Attribute	Description
UserName	uid	Key field on the resource
Password	userpassword	Password
Email	mail	Mail ID
MailHost	mailHost	Mail host
FirstName	givenName	First name
LastName	sn	Last name
Common Name (FirstName+LastName)	cn	Common name
Employee ID	employeeNumber	Employee ID
Business Phone	telephoneNumber	Business phone
Address1	postalAddress	Postal address
Address2	roomNumber	Room number
City	l	City
State	st	State

Table 4   Oracle Internet Directory Mapping Information

Select Identity Resource Attribute	OID LDAP Attribute	Description
Zip	postalCode	Zip code
Title	title	Title
Business category	businessCategory	Business category
DepartmentNumber	departmentNumber	Departmant number
Description	description	Description
CarLicense	carLicense	Car license
FacsimileTelephoneNumber	facsimileTelephoneNumber	Fax telephone number
HomePhone	homePhone	Home phone
HomePostalAddress	homePostalAddress	Home postal address
Initials	initials	Initials
InternationaliSDN-Number	internationaliSDNNumber	International SDN number
LabeledURI	labeledURI	Labeled URI
Mobile	mobile	Mobile number
Pager	pager	Pager number
PhysicalDeliveryOffice-Name	physicalDeliveryOffice-Name	Physical delivery office name
PostOfficeBox	postOfficeBox	Post office box
PreferredDeliveryMethod	preferredDeliveryMethod	Preferred delivery method
PreferredLanguage	preferredLanguage	Preferred language
RegisteredAddress	registeredAddress	Registered address
Street	street	Street
TeletexTerminalIdentifier	teletexTerminalIdentifier	Teletex terminal identifier
TelexNumber	telexNumber	Telex number

4   Associate the newly added resource to a service. Refer to the chapter *Service Studio* of *HP OpenView Select Identity Administrator Guide* for more information on service.

3 Uninstalling the Connector

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

1 Remove all resource dependencies.

2 Delete the connector from OVSI.

3 Delete the connector from application server.

See *HP OpenView Select Identity Connector Deployment Guide* for more information on deleting the connector from OVSI and application server.