HP OpenView Select Identity

Connector for IBM Directory

Connector Version: 4.2

Installation and Configuration Guide

Document Release Date: March 2006
Software Release Date: March 2006

Legal Notices

Warranty

The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

The information contained herein is subject to change without notice.

Restricted Rights Legend

Confidential computer software. Valid license from HP required for possession, use or copying. Consistent with FAR 12.211 and 12.212, Commercial Computer Software, Computer Software Documentation, and Technical Data for Commercial Items are licensed to the U.S. Government under vendor's standard commercial license.

Copyright Notices

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

Trademark Notices

Support

Please visit the HP OpenView support web site at:

http://www.hp.com/managementsoftware/support

This web site provides contact information and details about the products, services, and support that HP OpenView offers.

HP OpenView online software support provides customer self-solve capabilities. It provides a fast and efficient way to access interactive technical support tools needed to manage your business. As a valuable support customer, you can benefit by using the support site to:

- Search for knowledge documents of interest

- Submit enhancement requests online

- Download software patches

- Submit and track progress on support cases

- Manage a support contract

- Look up HP support contacts

- Review information about available services

- Enter discussions with other software customers

- Research and register for software training

Most of the support areas require that you register as an HP Passport user and log in. Many also require a support contract.

To find more information about access levels, go to:

http://www.hp.com/managementsoftware/access_level

To register for an HP Passport ID, go to:

http://www.managementsoftware.hp.com/passport-registration.html

Contents

1 Introduction

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

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 IBM Directory Connector

The connector for IBM Directory server version 5.2 — hereafter referred to as IBM Directory connector — enables you to perform the following tasks on IBM Directory server 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

IBM Directory connector is packaged with the following files.

Table 1   IBM 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 (`IBMDirServer40.xml`) for this system, which controls how the OVSI fields are mapped to IBM Directory Server LDAP fields.

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

System Requirements

The IBM Directory connector is supported in the following environment:

Table 2   Platform Matrix for IBM Directory Connector

Select Identity Version	Application Server	Database
3.3.1	WebLogic 8.1.4 on Windows 2003	SQL Server 2000
4.0	The IBM Directory connector is supported on all the platform configurations of Select Identity 4.0.	

This connector is supported with IBM Directory server 5.2 on Windows 2000.

Installation Procedure

Perform the following tasks to install the IBM 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 IBM Directory connector, refer to the table below.

Table 3   Resource Configuration Parameters

Field Name	Sample Values	Description
Resource Name	IBMDirResource	Name of the target resource.
Resource Type	IBMDirectoryServer	The connector that was deployed in step 1 on page 10.
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://nt1315:389	URL to access the resource.
Suffix	c=hp,cn=localhost	The domain(s) to which the users will be provisioned.
Login Name	cn=root	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=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	IBMDirServer40.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   IBM Directory Mapping Information

Select Identity Resource Attribute	IBM Directory Server Attribute	Description
UserName	uid	Key field on the resource
Password	userpassword	Password
Email	mail	Mail ID
FirstName	givenname	First name
LastName	sn	Last name
FirstName + LastName	cn	Common name
Address1	postalAddress	Postal address
Address2	roomNumber	Room number
City	l	City
State	st	State
Zip	postalCode	Zip code
Title	Title	Title
Employee ID	employeenumber	Employee ID
Business Phone	telephoneNumber	Business phone
Disable Function	Description="disabled"	Marks the user as disabled
Enable Function	Description="enabled"	Marks the user as enabled
Initials	Initials	
InternationaliSDNNumber	internationaliSDNNumber	International SDN number
LabeledURI	labeledURI	
Mobile	mobile	
Pager	Pager	
PhysicalDeliveryOffice-Name	physicalDeliveryOffice-Name	Physical delivery office name
PostOfficeBox	postOfficeBox	
PreferredDeliveryMethod	preferredDeliveryMethod	
PreferredLanguage	preferredLanguage	
RegisteredAddress	registeredAddress	

Table 4   IBM Directory Mapping Information

Select Identity Resource Attribute	IBM Directory Server Attribute	Description
Street	street	
TeletexTerminalIdentifier	teletexTerminalIdentifier	
TelexNumber	telexNumber	

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.