

# HP OpenView Select Identity

Software Version: 4.0/4.01.000

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## Connector Deployment Guide

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Software Release Date: July 2006



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

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

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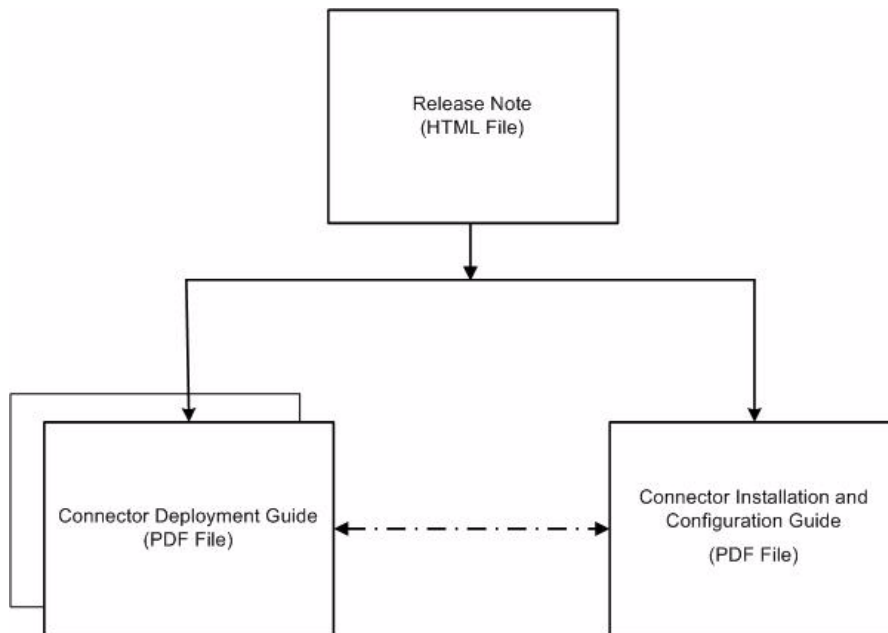


# 1 Documentation Map

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**

<b>Document Title and Filename</b>	<b>Contents</b>	<b>Location</b>
<i>Release Note</i>	This file contains necessary information on new features of the connector, enhancements, known problems or limitations, and support information.	/Docs/ subdirectory under connector directory.
<i>Connector Deployment Guide (for Select Identity 4.01.000/4.0)</i> connector_deploy_SI4.pdf	Connector deployment guides provide detailed information on: <ul style="list-style-type: none"> <li>• Deploying a connector on an application server.</li> <li>• Configuring a connector with Select Identity.</li> </ul> Refer to these guides when you need detailed and generic information on connector installation.	/Docs/ subdirectory under connector directory.
<i>Connector Deployment Guide (for Select Identity 3.3.1)</i> connector_deploy_SI3.3.1.pdf		
<i>Connector Installation and Configuration Guide</i> <connector_name>_install.pdf	Connector installation and configuration guide provides installation instructions for a specific connector.	/Docs/ subdirectory under connector directory.



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## 2 Introduction

This chapter gives an overview of the HP OpenView Select Identity connector. An HP OpenView Select Identity connector enables you to provision users and manage identities on an enterprise information system. 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.

### About this Guide

The *HP OpenView Select Identity Connector Deployment Guide* gives you an overview of generic installation and configuration tasks to be performed to install a connector on the Select Identity server. The guide elaborates the following instructions:

- Instructions to deploy a connector on an application server.
- Instructions to configure the connector on Select Identity.

The instructions explained in this guide are common for all the connectors. For additional connector specific or resource specific installation instruction, refer to the specific connector's Installation and Configuration Guide.

### 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. By using Select Identity, you can 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**.

## Features and Capabilities

A connector enables Select Identity to access a resource to manage users, groups, and entitlements. Select Identity can typically perform the following tasks by using a connector.

- Add, update, and remove users
- Retrieve user attributes
- Enable and disable users
- Verify a user's existence
- Change user passwords
- Reset user passwords

The set of tasks, which can be performed by the connector on resource, varies from connector to connector.

A connector usually consists of:

- A **Resource Adapter Archive (RAR)** file— this file contains connector binaries.
- A **Schema** file — this contains the mapping file for the connector. A mapping file contains resource attribute information of the connector, which must be linked to Select Identity attributes.

A connector may not contain a schema file. In that case, the mapping file for the connector can be generated by using attribute mapping utility of Select Identity. Refer to *Appendix C: Attribute Mapping* chapter of *HP OpenView Select Identity Administrator Guide* for information on attribute mapping utility.

In addition to above two files, there could be other files packaged with the connector, such as an agent file, a script file, and so on.

## About Deploying a Connector

In order to use a connector with Select Identity, you must deploy it on an application server, and then configure it with Select Identity. The RAR file of the connector, which contains the binaries, must be deployed on an application server. You must perform the following tasks to deploy and configure a connector.


- 1 [Extracting Contents of the Schema File](#)
- 2 [Deploying the Connector on Application Server](#)
- 3 [Configuring the Connector with Select Identity](#)

## 3 Extracting Contents of the Schema File

Most of the connectors contain at least one schema file. This file contains the mapping information of the connector. Some of the connectors do not have a schema file packaged with it, and the mapping files are generated with the help of attribute mapping utility of Select Identity. If the connector that you are deploying does not contain a schema file packaged with it, skip to the next chapter.

You must extract contents of the Schema file to a location on the Select Identity server. Perform one of the procedures explained below depending on the application server ([WebLogic](#) or [WebSphere](#)) on which the connector will be deployed.

### WebLogic

- 1 Create a subdirectory in Select Identity home directory where you can store the connector's mapping files and XSL files.  
For example, you can create `<OVSI_HOME_DIR>/Schema` where  
`<OVSI_HOME_DIR> = /opt/si401/weblogic/` for Select Identity installed on UNIX  
and `<OVSI_HOME_DIR> = C:\si401\weblogic\` for Select Identity installed on Windows.
  - 2 Extract contents of the schema JAR or ZIP file to the Schema directory. Some connectors may contain more than one schema file. Refer to the connector's Installation and Configuration Guide to find out the right schema file to be used.
  - 3 To ensure that the CLASSPATH environment variable in WebLogic startup script references the Schema directory created above, perform the following steps:
    - a Open the `myStartWL.cmd/.sh` file from the location `<OVSI_HOME_DIR>/weblogic/scripts` with a text editor.
    - b Add the directory path of the Schema directory to the CLASSPATH variable in the script.
-  If you install more than one connector, you can extract the Schema file (JAR/ZIP) of all the connectors to the same location.

## WebSphere

On WebSphere, `<WebSphere_Install_Directory>/AppServer/lib/ext` folder is present in WAS CLASSPATH by default. Extract contents of the Schema file (JAR/ZIP) to the location `<WebSphere_Install_Directory>/AppServer/lib/ext`.



- The XML files should be placed in the path `com\trulogica\truaccess\connector\schema\spml` under the Schema directory.
- The XSL files must be available directly under the Schema directory.
- For the connectors which do not have an XML schema mapping file but have `properties` file, you must place the `properties` file directly under the Schema directory.

## 4 Deploying the Connector on Application Server

To install the connector on Select Identity, you must deploy the connector on the application server. To deploy the connector on an application server, perform the following steps:

- 1 Create a subdirectory in Select Identity home directory where you can store the connector's Resource Adapter Archive (RAR) file.  
For example, you can create `<OVSI_HOME_DIR>/connectors` where `<OVSI_HOME_DIR> = /opt/Select_Identity` in UNIX and `<OVSI_HOME_DIR> = C:\Select_Identity` in Windows (A connector subdirectory may already exist.)
- 2 Copy the RAR file from the Select Identity Connector CD to the connector subdirectory.
- 3 Perform the following steps to deploy the connector on WebLogic. If deploying on WebSphere, skip to [step 4](#) on page 13.
  - c Start the application server in the domain for Select Identity, if it is not currently running, and log on to the WebLogic Server Console.
  - d In the left pane, expand Deployments folder, and then right click on Connector Modules, and select **Deploy a New Connector Module**.  
  
Alternatively, at the right panel of the Server Console homepage, click on **Connector Modules** link, which is under Your Deployed Resources column of Domain Configurations section. Resource Connectors page appears. Click on **Deploy a New Connector Module** link on this page.
  - e Click the link in the Location field, locate, and select the RAR file from the list. It is stored in the connector subdirectory.
  - f Click **Target Module**.
  - g If only one server is configured, skip to next step. If more than one server is configured, the next page prompts you to select the servers on which you want to deploy the connector. Select the server instance, and then click **Continue**.
  - h Review the settings. Keep all the default settings and click **Deploy**. The Status of Last Action column should display Success.
- 4 If you want to deploy the connector on WebSphere, perform the following steps:
  - a Start the application server, if necessary.
  - b Log on to the WebSphere Application Server Console.
  - c Navigate to **Resources** → **Resource Adapters**.
  - d Click **Install RAR**. The Install RAR File page appears.
  - e If it is a cluster setup, select a WebSphere node from the Node drop-down box.
  - f In the Server path field, enter the path to the connector's RAR file. It is stored in the subdirectory created in the beginning.
  - g Click **Next**.
  - h In the Name field, enter a name for the connector.





































