

# HP OpenView Select Identity

Connector for Novell eDirectory

Connector Version: 4.2

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## 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
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- BouncyCastle engine for keystore management, bouncycastle.org

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# 1 Introduction

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

## 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 eDirectory Connector

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

eDirectory connector is packaged with the following files.

**Table 1 eDirectory 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 (edir40.xml) for this system, which controls how the OVSI fields are mapped to Novell eDirectory server LDAP fields.

These files are located in the LDAP Novell E-Directory directory on the Select Identity Connector CD.

## System Requirements

The eDirectory connector is supported in the following environment:

**Table 2 Platform Matrix for eDirectory Connector**

Select Identity Version	Application Server	Database
3.0.2	WebLogic 8.1.2 on Windows 2003	SQL Server 2000
	WebLogic 8.1.2 on HP-UX 11i	Oracle 9i
	WebSphere 5.1.1 on Solaris 9	DB2 8.2 (or DB2 8.1 Service Pack 7)
3.3	WebLogic 8.1.4 on Windows 2003	SQL Server 2000

**Table 2 Platform Matrix for eDirectory Connector**

Select Identity Version	Application Server	Database
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 Novell eDirectory connector is supported on all the platform configurations of Select Identity 4.0.	

The connector is supported with eDirectory 8.7.3 on Windows 2000, Windows 2003, and Solaris 9.

## Installation Procedure

The eDirectory 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.

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

**Table 3 Resource Configuration Parameters**

Field Name	Sample Values	Description
Resource Name	eDir	Name of the target resource.
Resource Type	EDIR	The connector that was deployed in <a href="#">step 1</a> 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 <b>No</b> 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://tlnt1:389	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.

**Table 3 Resource Configuration Parameters**

Field Name	Sample Values	Description
User Suffix	o=stsd	Suffix of user's distinguished name. This is the location in the tree where the users will be provisioned.
User Object Class	<i>top, person, organizationalperson, user</i>	Object class for the users.
Group Suffix	o=stsd	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	<i>Top, group</i>	Object class of user groups.
Mapping File	edir40.xml	Location of the connector mapping file, which is used to map resource attributes to Select Identity attributes.
Cleanup Groups	<i>Selected</i>	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 eDirectory Mapping Information**

Select Identity Resource Attribute	eDirectory Attribute	Description
UserName	uid	Key on the resource
Password	userpassword	User's password
Email	mail	Mail ID
FirstName	givenname	First name
LastName	sn	Last name
[FirstName] [LastName]	cn	Common name
Employee ID	employeenumber	Employee ID
PhBus	telephoneNumber	Business phone
Address 1	postalAddress	Postal address
Address 2	roomNumber	Room number

**Table 4 eDirectory Mapping Information**

Select Identity Resource Attribute	eDirectory Attribute	Description
City	l	City
State	st	State
Zip	postalCode	Zip code
Title	title	Title
Company	company	Company
CostCenter	costCenter	Cost center
CostCenterDescription	costCenterDescription	Cost center description
DepartmentNumber	departmentNumber	Department number
Description	description	Description
EmployeeStatus	employeeStatus	Employee status
EmployeeType	employeeType	Employee type
PhHome	homePhone	Home phone
HomePostalAddress	homePostalAddress	Home postal address
instantMessagingID	instantMessagingID	Instant messaging ID
Language	Language	Language
Country	co	Country
LoginDisabled	loginDisabled	Login disable field

- 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.



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## 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.

