

HP OpenView Select Identity

Connector for SAP Central User Administration (CUA)

Connector Version: 1.0

Installation and Configuration Guide

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Software Release Date: November 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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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

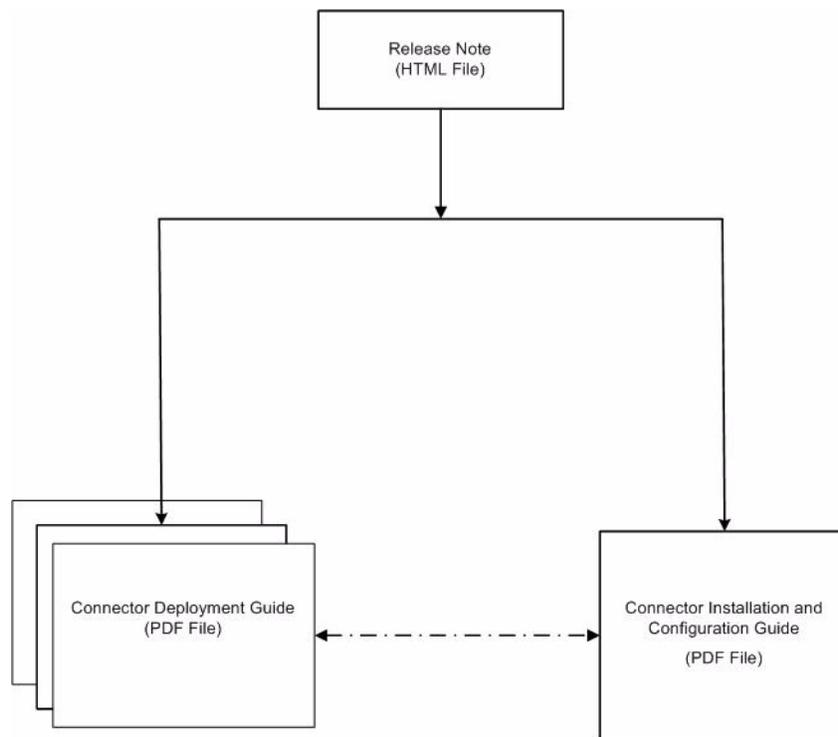


Table 1 Connector Documentation

Document Title and Filename	Contents	Location
<i>Release Note</i> SAP CUA Connector v1.0 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.
<i>Connector Deployment Guide (for Select Identity 4.10)</i> connector_deploy_SI4.1.pdf	Connector deployment guides provide detailed information on: <ul style="list-style-type: none">• 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.
<i>Connector Installation and Configuration Guide</i> SAP_CUA_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 SAP Central User Administration (CUA). An HP OpenView Select Identity connector for SAP CUA enables you to provision users and manage identities on SAP CUA system. At the end of this chapter, you will be able to know about:

- The benefits of the HP OpenView Select Identity.
- The role of a connector.
- The connector for SAP CUA.

About HP OpenView Select Identity

HP OpenView Select Identity provides a new approach to identity management. 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. 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 SAP CUA Connector

The connector for SAP CUA— hereafter referred to as SAP CUA connector — communicates with the CUA system of the SAP deployment to provision users. The SAP CUA connector is a unidirectional connector and can perform the following tasks from Select Identity to SAP CUA:

- 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 (profiles and roles)
- Grant and revoke entitlements (profiles and roles) to users



This connector can be used with Select Identity version 4.10

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 Overview of Installation Tasks

Task Number	Task Name	Reference
1	Install the connector on the Select Identity server.	See Installing the Connector on page 11.
	— Meet the system requirements.	See System Requirements on page 12.
	— Ensure all the prerequisites are met.	See Prerequisite on page 12.
	— Extract contents of the Schema file.	See Extracting Contents of the Schema File on page 12.
	— Install the Resource Adapter Archive (RAR) file of the connector.	See Installing the Connector RAR on page 12.
2	Configure the connector with Select Identity.	See Configuring the Connector with Select Identity on page 13.

3 Installing the Connector

This chapter elaborates the procedure to install the SAP CUA connector on the Select Identity server. At the end of this chapter, you will know about

- Software requirements to install the SAP CUA connector.
- Pre-installation tasks.
- Procedure to install the SAP CUA connector.

SAP CUA Connector Files

The SAP CUA connector is packaged in the following files, which are located in the SAP_CUA directory of the Select Identity Connector CD:

Table 3 SAP CUA Connector Files

Serial Number	File Name	Description
1	SAPR3CUAConnector.rar	This is the Resource Adapter Archive (RAR) file of the connector. It contains a collection of binary files.
2	SAPR3CUASchema.zip	This JAR file contains of the following file: SAPCUA.xml – the mapping file to map attributes from SAP CUA to Select Identity.

System Requirements

The SAP connector is supported in the following environment:

Table 4 Platform Matrix for SAP CUA connector

Select Identity Version	Application Server	Database
4.10	The SAP CUA connector is supported on all the platform configurations of Select Identity 4.10.	

This connector is supported with SAP R/3 version 4.7 (enterprise portal must be configured as central system of CUA and SAP R/3 must be configured as a child system) with Oracle 9.2.0.6.

Prerequisite

Before you start installing the connector, you must download the SAP Java Connector (JCo) API (version 1.2 or above) from <http://service.sap.com> and install the API on the application server.

Also, add `<sapjco-install-path>\sapjco.jar` to the CLASSPATH environment variable where `<sapjco-install-path>` is the installation directory of the SAP Java Connector (JCo) API.

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 `SAPR3CUASchema.zip` 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 (`SAPR3CUAConnector.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/SAPCUAConnector`.

4 Configuring the Connector with Select Identity

This chapter describes the procedure to configure the SAP CUA connector with Select Identity and the connector specific parameters that you must provide while configuring the 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 SAP CUA 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/SAPCUAConnector**.
- 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	sap_server	Name given to the resource.
Connector Name	SAP_CUA	
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.
User Name	admin	User name of an SAP R/3 user with privileges to add other users, and also execute Remote Function Calls (RFCs). If this user does not have RFC authorization, the connector will throw exceptions.
Password	password123	Password of the above user.
Client ID	00	Server client ID.
Language	EN	Language for the system.
Host Address	server.company.com	The address of the server.
System Number	00	The system number.
Mapping File	SAPCUA.xml	Name of the resource mapping file.
IsEmployee	Yes — if the resource being created for SAP HR No — if the resource is being created for SAP R/3 users.	
IsCUA	Yes - If the resource is SAP CUA system. No - If the resource is SAP R/3 System	

Map Attributes

After successfully adding a resource for SAP CUA connector, you must map the resource attributes to Select Identity attributes. Add new attributes to Select Identity if necessary. Refer to the *HP OpenView Select Identity Connector Deployment Guide* for more information on mapping and creating attributes.

While mapping the attributes, refer to the following table for resource specific mapping information.

Table 6 SAP Mapping Information

Select Identity Resource Attribute	SAP Attribute	Description
Username	Username	Key field on the resource.
Password	Password	This is a mandatory attribute.
Firstname	Firstname	
Lastname	Lastname	This is a mandatory attribute.
Email	E_Mail	
Costcenter	Kostl	

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 Administration Online Help* for information on Select Identity services.

5 Uninstalling the Connector

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

