HP OpenView Select Identity

Connector for CA eTrust LDAP Servers Installation 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.
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Installing the Connector

The eTrust LDAP connector enables HP OpenView Select Identity to manage user data in LDAP on eTrust servers. It is a one-way connector and pushes changes made to user data in the Select Identity database to a target LDAP server. The mapping file controls how Select Identity fields are mapped to LDAP fields.

The eTrust LDAP connector is packaged in the following files:

- schema.jar contains the attribute mapping files for this system
- TALDAPv3.rar contains the connector's binary files

These files are located in the LDAP eTrust directory on the Select Identity Connector CD.

To install the eTrust LDAP connector on the Select Identity server, complete these steps.



Perform this procedure after the Select Identity product installation. The application server in this example is WebLogic 8.1, therefore you must be familiar with the WebLogic platform.

- 1 A Select_Identity directory was created on the application server during the product installation. Create a connector folder in this directory.
- 2 Copy the TALDAPv3.rar file to the connector folder in the Select _Identity directory.
- 3 Copy schema.jar file from the Select Identity Connector CD to a temporary directory.
- **4** Extract the schema.jar contents to the Select_Identity directory.
- 5 Ensure that the CLASSPATH environment variable in the WebLogic server startup script references the Select_Identity directory.
- 6 Modify the mapping file, if necessary. See Understanding the Mapping File on page 9 for details.
- **7** Start the application server if it is not currently running.
- **8** Log on to the WebLogic Server Console.
- 9 Navigate to My_domain -> Deployments -> Connector Modules.
- 10 Click Deploy a New Connector Module.
- 11 Locate and select the TALDAPv3.rar file from the list. It is stored in the Select_Identity\connector directory.
- 12 Click Target Module.
- 13 Select the My Server (your server instance) check box.
- 14 Click Continue. Review your settings.
- 15 Keep all default settings and click **Deploy**.

The Status of Last Action column should display Success.

After installing the connector, log on to the Select Identity client and deploy the connector using the Connector pages. Then, create a resource that represents the connector, and configure a Service that relies on the eTrust LDAP resource. See the *HP OpenView Select Identity Administrator Guide* for procedures. The Resource Access Information appendix provides detailed information about creating an eTrust LDAP resource.

Understanding the Mapping File

The eTrust LDAP connector is deployed with the CAEtrust.xml mapping file, which describes the attributes required by the system. The file is created in XML, according to SPML standards, and is bundled in a JAR file called schema.jar. The mapping file is used to map user account additions and modifications from Select Identity to the system resource. When you deploy a resource using the Resources page of the Select Identity client, you can review this file.

You can create attributes that are specific to Select Identity using the Attributes page in the Select Identity client. These attributes can be used to associate Select Identity user accounts with system resources by editing the connector mapping file described in this chapter. This process becomes necessary because, for example, a single attribute "username" can have a different name on different resources, such as "login" for UNIX, "UID" for a database, and "userID" on a Windows server.

This file does not need to be edited unless you want to map additional attributes to your resource. If attributes and values are not defined in this mapping file, they cannot be saved to the resource through Select Identity.

General Information

The following operations can be performed in the mapping file:

- Add a new attribute mapping
- Delete an existing attribute mapping
- Modify attribute mappings

Here is an explanation of the elements in the XML mapping files provided by the eTrust LDAP connector:

<Schema>, <providerID>, and <schemaID>

Provides standard elements for header information.

<objectClassDefinition>

<properties>

Defines the operations that are supported on the object. This can be used to control the operations that are performed through Select Identity. The following operations can be controlled:

- Create (CREATE)
- Read (READ)
- Update (UPDATE)
- Delete (DELETE)
- Enable (ENABLE)
- Disable (DISABLE)
- Reset password (RESET_PASSWORD)
- Expire password (EXPIRE_PASSWORD)
- Change password (CHANGE_PASSWORD)

The operation is assigned as the name of the <attr> element and access to the operation is assigned to a corresponding <value> element. You can set the values as follows:

- true the operation is supported by the connector
- false the operation is not supported by the connector and will throw a permission exception
- bypass the operation is not supported by the connector but will not throw any exception; the operation is simply bypassed

Here is an example:

<memberAttributes>

Defines the attribute mappings. This element contains <attributeDefinitionReference> elements that describe the mapping for each attribute. Each <attributeDefinitionReference> must be followed by an <attributeDefinition> element that specifies details such as minimum length, maximum length, and so on.

Each <attributeDefinitionReference> element contains the following attributes:

- Name the name of the reference.
- Required— if this attribute is required in the provisioning (set to true or false).
- Concero:tafield the name of the Select Identity resource attribute.
- Concero:resfield the name of the physical resource attribute from the resource schema. If the resource does not support an explicit schema (such as UNIX), this can be a tag field that indicates a resource attribute mapping.

- Concero:isKey An optional attribute that, when set to true, specifies that this is the key field to identify the object on the resource. Only one <attributeDefinitionReference> can be specified where isKey="true". This key field does not need to be the same as the key field of the identity object in Select Identity.
- Concero:init An optional attribute that identifies that the attribute is initialized with the value of the attribute passed in from Select Identity.

Here is an example:

```
<memberAttributes>
  <attributeDefinitionReference name="User Name"
   required="true" concero:tafield="[User Name]"
   concero:resfield="cn" concero:isKey="true"
   concero:init="true" />
```

The interpretation of the mapping between the connector field (as specified by the Concero:tafield attribute) and the resource field (as specified by the Concero:resfield attribute) is determined by the connector. The eTrust LDAP connector has code to interpret the mappings in one way, as follows:

- The connector attribute names are specified in square braces, like this: [xyz]. The value of attribute xyz is taken from the UserModel during provisioning.
- Composite attributes can be specified in the eTrust LDAP connector mapping file. To do this, specify [attr1] xxxx [attr2] as the connector attribute. This specifies that the value of the attr1 and attr2 attributes should be combined with the string xxxx to form a mapping for the specified resource field. eTrust LDAP connector has code to handle these composite mappings.

<attributeDefinition>

Defines the properties of each object's attribute. For example, the attribute definition for the HomeDir attribute defines that it must be between zero and 100 characters in length and can contain the following letters, numbers, and characters: a-z, A-Z, 0-9, @, +, and a space.

Here is an excerpt from the CAetrust.xml file:

```
<attributeDefinition name="HomeDir" description="User Home
directory" type="xsd:string" >
  properties>
```

<concero:entitlementMappingDefinition>

Defines how entitlements are mapped to users.

<concero:objectStatus>

Defines how to assign status to a user.

<concero:relationshipDefinition>

Defines how to create relationships between users.

eTrust LDAP Mapping Information

The following are the attribute mappings supported for CA eTrust. These are listed in the CAEtrust.xml mapping file. You can add, modify, or delete attributes once you are familiar with the contents of this file. You can edit the Select Identity resource attributes; they reflect the identity information as seen in Select Identity. The physical resource attributes are literal attributes of user accounts on the eTrust LDAP server. These attributes cannot be changed. See the *HP OpenView Select Identity Connector Developer Guide* for more information about attributes and mapping information.

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Select Identity Resource Attribute	CA eTrust LDAP Attribute	Description
UserName	cn	Key field on the resource
Password	userpassword	
First Name	givenname	
Last Name	sn	
Middle Name	initials	
FirstName + LastName	uid	
Last Name + First Name	displayName	
Email	mail	
Address1	postalAddress	
Address2	street	
City	1	
State	st	
Zip	postalCode	
Title	title	
Business Phone	telephoneNumber	
Home Phone	homePhone	
Mobile Phone	mobile	
Disable Function	Description="Disabled"	Marks the user as disabled
Enable Function	Description="Active"	Marks the user as enabled

Uninstalling the Connector

If you need to uninstall a connector from Select Identity, make sure that the following are performed:

- All resource dependencies are removed.
- The connector is deleted using the Select Identity client Connectors pages.

Perform the following to delete a connector:

- 1 Log on to the WebLogic Server Console.
- 2 Navigate to $My_Domain \rightarrow Deployments \rightarrow Connector Modules$.
- 3 Click the delete icon next to the connector that you want to uninstall.
- 4 Click **Yes** to confirm the deletion.
- 5 Click Continue.