Oracle® Identity Manager

Connector Guide for Sun Java System Directory Release 9.0.1

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Contents

Pr	efaceeface	v
	Audience	. v
	Documentation Accessibility	. v
	Related Documents	. v
	Documentation Updates	. v
	Conventions	. v
1	About the Connector	
	Supported Functionality	1-1
	Reconciliation Module	1-2
	Lookup Fields Reconciliation	1-2
	User Reconciliation	1-2
	Reconciled Resource Object Fields	1-2
	Reconciled Xellerate User Fields	1-3
	Provisioning Module	1-3
	Files and Directories That Comprise the Connector	1-4
2	Deploying the Connector	
	Step 1: Verifying Deployment Requirements	2-1
	Step 2: Copying the Connector Files and External Code	2-1
	Step 3: Importing the Connector XML Files	2-2
	Defining IT Resources	2-3
	Step 4: Configuring Reconciliation	2-4
	Specifying Values for the Scheduled Task Attributes	2-5
	Lookup Fields Reconciliation Scheduled Task	
	User Reconciliation Scheduled Task	2-6
	Step 5: Compiling Adapters	2-6
	Step 6: Configuring SSL	2-7
3	Testing the Connector	
	Running Test Cases	3-1
	Troubleshooting	3-2

4 Known Issues

Index

Preface

Oracle Identity Manager Connector Guide for Sun Java System Directory provides information about integrating Oracle Identity Manager with Sun Java System Directory.

Note: This is a transitional release following Oracle's acquisition of Thor Technologies. Some parts of the product and documentation still refer to the original Thor company name and Xellerate product name and will be rebranded in future releases.

Audience

This guide is intended for users who want to deploy the Oracle Identity Manager connector for Sun Java System Directory.

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Related Documents

For more information, refer to the following documents in the Oracle Identity Manager documentation set:

- Oracle Identity Manager Release Notes
- Oracle Identity Manager Installation and Upgrade Guide for JBoss
- Oracle Identity Manager Installation and Upgrade Guide for WebLogic
- Oracle Identity Manager Installation and Upgrade Guide for WebSphere
- Oracle Identity Manager Administrative and User Console Guide
- Oracle Identity Manager Administrative and User Console Customization Guide
- Oracle Identity Manager Design Console Guide
- Oracle Identity Manager Tools Reference Guide
- Oracle Identity Manager Audit Report Developer Guide
- Oracle Identity Manager Best Practices Guide
- Oracle Identity Manager Connector Framework Guide
- Connector guides for various third-party applications

Documentation Updates

Oracle is committed to delivering the best and most recent information available. For information about updates to the Oracle Identity Manager 9.0.1 connector documentation set, visit Oracle Technology Network at

http://www.oracle.com/technology/documentation/index.html

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

About the Connector

Oracle Identity Manager automates access rights management, security, and provisioning of IT resources. Oracle Identity Manager connectors are used to integrate Oracle Identity Manager with third-party applications. The connector for Sun Java system directory is used to integrate Oracle Identity Manager with Sun Java System Directory.

Note: Oracle Identity Manager connectors were referred to as resource adapters prior to the acquisition of Thor Technologies by Oracle.

This chapter contains the following sections:

- Supported Functionality
- Reconciliation Module
- Provisioning Module
- Files and Directories That Comprise the Connector

Supported Functionality

The following table lists the functions that are available with this connector.

Process Task	Туре	Description
Create User	Provisioning	Creates a user
Delete User	Provisioning	Deletes a user
Enable User	Provisioning	Enables a user
Disable User	Provisioning	Disables a user
Move User	Provisioning	Moves a user from one container to another
Password Updated	Provisioning	Updates the password of a user
First Name Updated	Provisioning	Updates the first name of a user
Last Name Updated	Provisioning	Updates the last name of a user
Department Updated	Provisioning	Updates the password of a user
Email ID Updated	Provisioning	Updates the e-mail address of a user
Location Updated	Provisioning	Updates the location of a user

Process Task	Туре	Description
Middle Name Updated	Provisioning	Updates the middle name of a user
Communication Language Updated	Provisioning	Updates the language of a user
Telephone Updated	Provisioning	Updates the telephone number of a user
Title Updated	Provisioning	Updates the title of the user
Organization DN Updated	Provisioning	Updates the organization DN of a user
Add User to Group	Provisioning	Adds a user to a group
Remove User from Group	Provisioning	Removes a user from a group
Add User to Role	Provisioning	Adds a user to a role
Remove User from Role	Provisioning	Removes a user from a role
Reconciliation Delete Received	Reconciliation	Deletes a user in Oracle Identity Manager if the user is deleted from Sun Java System Directory
Reconciliation Insert Received	Reconciliation	Inserts a user in Oracle Identity Manager
Reconciliation Update Received	Reconciliation	Updates user attributes, such as the first name or last name, in Oracle Identity Manager

Reconciliation Module

This section discusses the elements that the reconciliation module extracts from the target system to construct reconciliation event records.

Reconciliation can be divided into the following types:

- Lookup Fields Reconciliation
- User Reconciliation

Lookup Fields Reconciliation

Lookup fields reconciliation involves reconciling the fields for groups, roles, and organization.

User Reconciliation

User reconciliation involves reconciling the fields discussed in this section.

Reconciled Resource Object Fields

The following fields are reconciled:

- User ID
- First Name
- Last Name
- Middle Name
- Department

- Location
- Telephone
- **Email**
- Communication Language
- Title
- Organization Unit
- Server Name (IT resource)
- Group
- Role

Reconciled Xellerate User Fields

The following fields are reconciled only if reconciliation is implemented in trusted mode:

- UserID
- Password
- Organization
- FirstName
- LastName
- Xellerate Type
- Xellerate
- Role

Provisioning Module

The following fields are provisioned:

- User ID
- First Name
- Last Name
- Middle Name
- Department
- Location
- Telephone
- **Email**
- Communication Language
- Organization Unit
- Server Name (IT resource)
- Group
- Role

Files and Directories That Comprise the Connector

The files and directories that comprise this connector are compressed in the following ZIP file on the installation media:

Directory Servers\Sun Java System Directory Server\Sun Java System Directory Server Rev 4.1.0.zip

These files and directories are listed in the following table.

File Name with Path	Description		
xml\iPlanetResourceObject.xml	This XML file contains all the components of the connector. These components include the following:		
	■ IT resource type		
	 Custom process form 		
	 Process task and rule-generator adapters (along with their mappings) 		
	 Resource object 		
	 Provisioning process 		
	 Pre-populate rules 		
	 Reconciliation process 		
	 Lookup definitions 		
xml\iPlanetXLResourceObject.xml	This XML file contains the configuration for the Xellerate User. You must import this file only if you plan to use the connector in trusted source reconciliation mode.		
lib\xliIPlanet.jar	This JAR file contains the class files required for provisioning and reconciliation.		
troubleshoot\log.properties	This file contains the settings required to create a log file for output generated by the troubleshooting utility.		
troubleshoot\TroubleShootingUtili tyIPlanet.class	This is the standalone class that interacts with the target system. This is the class that has the code required to run the test cases.		
troubleshoot\TroubleShootIPlanet. properties	This file contains the connection details that are required to connect to the target system and user details. It also contains details about the commands to be run.		
docs\B31139_01.pdf docs\html	These are PDF and HTML versions of this guide, which provides instructions to deploy the connector.		

The "Step 2: Copying the Connector Files and External Code" section on page 2-1 provides instructions to copy these files into the required directories.

Deploying the Connector

Deploying the connector involves the following steps:

- Step 1: Verifying Deployment Requirements
- Step 2: Copying the Connector Files and External Code
- Step 3: Importing the Connector XML Files
- Step 4: Configuring Reconciliation
- Step 5: Compiling Adapters
- Step 6: Configuring SSL

Step 1: Verifying Deployment Requirements

The following table lists the deployment requirements for the connector.

Item	Requirement
Oracle Identity Manager	Oracle Identity Manager release 8.5.2 or later
Target systems	Sun ONE Directory Server 5.2
Target system host platforms	Microsoft Windows 2000

Step 2: Copying the Connector Files and External Code

The connector files to be copied and the directories to which you must copy them are given in the following table.

Note: The directory paths given in the first column of this table correspond to the location of the connector files in the following ZIP file on the installation media:

Directory Servers\Sun Java System Directory Server\Sun Java System Directory Server Rev 4.1.0.zip

Refer to "Files and Directories That Comprise the Connector" on page 1-4 for more information about these files.

Files in the Installation Media Directory	Destination Directory
xml\iPlanetResourceObject.xml	<pre>xellerate_home\xellerate\iPlanet-ve rsionno\xml</pre>
xml\iPlanetXLResourceObject.xml	<pre>xellerate_home\xellerate\iPlanet-ve rsionno\xml</pre>
lib\xliIPlanet.jar	xellerate_home\xellerate\JavaTasks
The following files in the troubleshoot directory:	<pre>xellerate_home\xellerate\troublesho ot</pre>
<pre>log.properties TroubleShootingUtilityIPlanet.class TroubleShootIPlanet.properties</pre>	
docs\B31139_01.pdf docs\html	xellerate_home\xellerate\docs

Note: In the destination directory path, the version number specified in the directory name iPlanet-versionno would change depending on the actual version number of the software.

Step 3: Importing the Connector XML Files

To import the connector XML files into Oracle Identity Manager:

- Open the Oracle Identity Manager Administrative and User Console.
- Click the **Deployment Management** link on the left navigation bar.
- Click the **Import** link under Deployment Management. A dialog box for locating files is displayed.
- Locate and open the iPlanetXLResourceObject.xml file, which is in the xellerate_home\xellerate\iPlanet-versionno\xml directory. Details of this XML file are shown on the File Preview page.
- **5.** Click **Add File.** The Substitutions page is displayed.
- Click **Next.** The Confirmation page is displayed.
- 7. Click Next. The Provide IT Resource Instance Data page for the iPlanet User IT resource is displayed.
- Specify values for the parameters of the iPlanet User IT resource. Refer to the table in the "Defining IT Resources" section on page 2-3 information about the values to be specified.
- 9. Click Next. The Provide IT Resource Instance Data page for a new instance of the LDAP Server IT resource type is displayed.
- 10. Click Skip to specify that you do not want to define another IT resource. The Confirmation page is displayed.

See Also: If you want to define another IT resource, then refer to *Oracle Identity Manager Tools Reference Guide* for instructions.

11. Click View Selections.

The contents of the XML file are displayed in the Deployment Manager – Import window. You may see a cross-shaped icon along with some nodes. You must remove these nodes. To do this, right-click each such node and then select Remove.

- **12.** Click **Import.** The connector file is imported into Oracle Identity Manager.
- **13.** If you plan to use the connector in trusted source reconciliation mode, then perform the same procedure to import the iPlanetResourceObject.xml file. This file is in the xellerate_home\xellerate\iPlanet-versionno\xml directory.

Caution: Only one connector can be configured as a trusted source. If you import the iPlanetResourceObject.xml file while you have another trusted source configured, then both connector reconciliations would stop working.

After you import the connector XML files, proceed to the "Step 4: Configuring Reconciliation" section on page 2-4.

Defining IT Resources

You must specify values for the iPlanet User IT resource parameters listed in the following table.

Parameter Name	Parameter Description
Admin Id	DN value of the user who has administrator rights on the target Sun Java System Directory server
	The default value is uid=admin, ou=administrators, ou=topologymanagement, o =netscaperootAdmin
Admin Password	Password of the administrator
Server Address	Server address of the target Sun Java System Directory server
	The value can be 164.164.164.164.
Port	Port number to connect to the target Sun Java System Directory server
	The default value is 389.
Root DN	Base DN where all the user operations are to be carried out
	The value can be o=xyz
SSL	Specifies whether or not an SSL connection is used for communication between Oracle Identity Manager and the target Sun Java System Directory server
	The value can be true or false.
Last Recon TimeStamp	The value is empty the first time the reconciliation process is run. From then onward, this parameter stores the time at which the last reconciliation process was completed.
Prov Attribute Lookup Code	Name of the lookup definition that has the target attribute mappings required for provisioning
	The default value of this parameter is AttrName.Prov.Map.iPlanet

Parameter Name	Parameter Description
Recon Attribute Lookup Code	Name of the lookup definition that has the target attribute mappings required for reconciliation
	The default value of this parameter is AttrName.Recon.Map.iPlanet
Use XL Org Structure	A configurable option for the user
	If set to true, then the provisioned user is created under the Organization structure of Oracle Identity Manager. If set to false, then the value of the Organization field in the process form is used and the provisioned user is created under the Organization structure that is specified in the process form while provisioning.

After you specify values for these IT resource parameters, go to Step 9 of the procedure to import connector XML files.

Step 4: Configuring Reconciliation

Configuring reconciliation involves creating scheduled tasks for lookup fields and user reconciliations. To create these scheduled tasks:

- Open the Oracle Identity Manager Design Console.
- Expand the **Xellerate Administration** folder.
- 3. Select Task Scheduler.
- **4.** Click **Find**. The details of the predefined scheduled tasks are displayed on two different tabs.
- 5. Enter a number in the Max Retries field. This number represents the number of times Oracle Identity Manager should attempt to complete the task before assigning the ERROR status to the task.
- **6.** Ensure that the **Disabled** and **Stop Execution** check boxes are cleared.
- In the Start region, double-click the **Start Time** field. From the date-time editor that is displayed, select the date and time at which you want the task to run.
- In the Interval region, set the following schedule parameters:
 - To set the task to run on a recurring basis, select the **Daily**, **Weekly**, **Recurring** Intervals, Monthly, or Yearly option.
 - If you select the Recurring Intervals option, then you must also specify the time interval at which you want the task to run on a recurring basis.
 - To set the task to run only once, select the **Once** option.
- **9.** Provide values for the attributes of the scheduled task. Refer to the appropriate table in the "Specifying Values for the Scheduled Task Attributes" section on page 2-5 for information about the values to be specified.

See Also: Oracle Identity Manager Design Console Guide for information about adding and removing task attributes

- 10. Click Save. The scheduled task is created. The INACTIVE status is displayed in the **Status** field, because the task is not currently running. The task is run at the date and time that you set in Step 7.
- **11.** Repeat Steps 5 through 10 to create the second scheduled task.

After you create both scheduled tasks, proceed to the "Step 5: Compiling Adapters" section on page 2-6.

Specifying Values for the Scheduled Task Attributes

This section provides information about the attribute values to be specified for the following scheduled tasks:

- Lookup Fields Reconciliation Scheduled Task
- User Reconciliation Scheduled Task

Lookup Fields Reconciliation Scheduled Task

You must specify values for the following attributes of the lookup fields reconciliation scheduled task.

Note: Attribute values are predefined in the connector XML file that you import. Specify values only for those attributes that you want to change.

Attribute Name	Description	Default/Sample Value
LookupCodeName	Name of the lookup definition to which the values are to be reconciled	Lookup.IPNT.UserGroup
ITResourceName Name of the IT resource for setting up a connection to the Sun Java System Directory server		iPlanet User
SearchContext	Search context to be used for searching for users	DC=mycompany,DC=com
ObjectClass	Name of the group object class For example, groupOfUniqueNames and	groupOfUniqueNames (for Group reconciliation)
	ldapsubentry.	ldapsubentry (for Role reconciliation)
CodeKeyLTrimStr	String value for left-trimming the value obtained from the search	[NONE]
	For example: cn= or uid=	
	If there is nothing to be trimmed, then specify the value ${\tt [NONE]}$.	
CodeKeyRTrimStr	String value for right-trimming the value obtained from the search	,DC=mycompany,DC=com
	For example: , DC=mycompany, DC=com	
	If there is nothing to be trimmed, then specify the value ${\tt [NONE]}$.	
ReconMode	Specify REFRESH to completely refresh the existing lookup.	REFRESH or UPDATE (specified in uppercase)
	Specify ${\tt UPDATE}$ to update the lookup with the new values.	

After you specify values for these scheduled task attributes, go to Step 10 of the procedure to create scheduled tasks.

User Reconciliation Scheduled Task

You must specify values for the following attributes of the user reconciliation scheduled task.

> **Note:** Attribute values are predefined in the connector XML file that you import. Specify values only for those attributes that you want to change.

Attribute Name	Description	Default/Sample Value
ITResourceName	Name of the IT resource for setting up a connection to the Sun Java System Directory server	iPlanet User
ResourceObjectName	Name of the resource object in which users are reconciled	iPlanet User
XLDeleteUsersAllow ed	If this attribute is set to true, then the Delete reconciliation event is started. Users who are deleted from the target system are removed from Oracle Identity Manager. This requires all the users on the target system to be compared with all the users in Oracle Identity Manager.	true
	Note: This process affects performance.	
UserContainer	DN value from where the users are reconciled from the target system to Oracle Identity Manager	ou=user
TrustedSource	Configurable option for trusted reconciliation	True
Xellerate Type	Default Xellerate Type for the Xellerate User	End-User Administrator
Password	Default password for the Xellerate User	Dummy123
Organization	Default organization of the Xellerate User	Xellerate Users
Role	Default role for the Xellerate User	Consultant

After you specify values for these scheduled task attributes, go to Step 10 of the procedure to create scheduled tasks.

Step 5: Compiling Adapters

The following table lists the adapters that are imported into Oracle Identity Manager when you import the connector XML file. You must compile these adapters before you can use them to provision accounts on your target system.

- iPlanet Create User
- iPlanet Delete User
- iPlanet Modify User
- iPlanet Move User
- iPlanet Add User to Group
- iPlanet Remove User from Group
- iPlanet Add Role to User
- iPlanet Remove Role from User
- iPlanet PP String

To compile adapters by using the Adapter Manager form:

- Open the Adapter Manager form.
- To compile all the adapters that you import into the current database, select the Compile All option.

To compile multiple (but not all) adapters, select the adapters you want to compile. Then, select the **Compile Selected** option.

Note: Click **Compile Previously Failed** to recompile only those adapters that were not compiled successfully. Such adapters do not have an OK compilation status.

3. Click **Start.** Oracle Identity Manager compiles the adapters that you specify.

To view detailed information about an adapter:

- Highlight the adapter in the Adapter Manager form.
- Double-click the row header of the adapter, or right-click the adapter.
- Select Launch Adapter from the shortcut menu that is displayed. Details of the adapter are displayed.

Note: To compile multiple adapters simultaneously, use the Adapter Manager form. To compile one adapter at a time, use the Adapter Factory form. Refer to Oracle Identity Manager Tools Reference Guide for information about how to use these forms.

Step 6: Configuring SSL

Note: This is an optional step of the deployment procedure.

To enable SSL connectivity between the connector and the target Sun Java System Directory server:

1. Import the certificate from the target system into the JSDK (the JSDK that is used during installation of Oracle Identity Manager) cacerts keystore as follows:

```
keytool -import -file certificate_file_name -alias iplanetcert -keystore
java_home\jre\lib\security\cacerts
```

Here, <code>java_home</code> is the directory in which JDK is installed.

- **2.** Restart the Oracle Identity Manager server.
- In the iPlanet User IT Resource:
 - Set the SSL parameter value to true.
 - Change the Port parameter value to the SSL port number. Typically, this number is 636.

Testing the Connector

After you deploy the connector, you must test it to ensure that it functions as expected. This chapter contains the following sections:

- **Running Test Cases**
- Troubleshooting

Running Test Cases

This section discusses test cases that you can perform by using the troubleshooting utility.

You can use the troubleshooting utility to directly use the connector for identifying the cause of problems associated with connecting to the target system server and performing basic operations on the target system.

Before you can use the troubleshooting utility, you must set the required values in the TroubleShootIPlanet.properties file. This file is in the xellerate_home\xellerate\troubleshoot directory. The following tables describes the sections of this file.

Section Name	Information
Sun Java System Directory Server Connection Parameters	Connection parameters required to connect to the target system
Create User	Values requited to create a user on the target system
Modify User	Values required to modify a user
Delete User	DN of the user to be deleted

After you specify the required values in the TroubleShootIPlanet.properties file, set the classpath for the xliIPlanet.jar file. Refer to the "Step 2: Copying the Connector Files and External Code" section on page 2-1 for information about the location of this file.

In addition, you must set the classpath for the following JAR files:

- xellerate_home\xellerate\lib\xlLogger.jar
- xellerate_home\xellerate\lib\xlUtils.jar
- xellerate_home\xellerate\JavaTasks\xliPlanet.jar
- log4j.jar file in the application server installation directory

Then, perform the following tests:

Create a user as follows:

java -DpropertyFile= xellerate_home/xellerate/troubleshoot/TroubleShootIPlanet.properties -Dlog4j.configuration=file:/xellerate_home/xellerate/troubleshoot /log.properties TroubleShootingUtilityIPlanet createUser

Modify a user as follows:

java -DpropertyFile= xellerate_home/xellerate/troubleshoot/TroubleShootIPlanet.properties -Dlog4j.configuration=file:/xellerate_home/xellerate/troubleshoot /log.properties TroubleShootingUtilityIPlanet modifyUser

Delete a user as follows:

java -DpropertyFile= xellerate_home/xellerate/troubleshoot/TroubleShootIPlanet.properties -Dlog4j.configuration=file:/xellerate_home/xellerate/troubleshoot/log.propertie s TroubleShootingUtilityIPlanet deleteUser

Note: Ensure that the location of the

TroubleShootIPlanet.properties and log.properties files is correctly specified.

Troubleshooting

The following table lists solutions to some commonly encountered problems associated with the connector.

Problem Description	Solution	
Oracle Identity Manager cannot establish a connection to the Sun Java System Directory server.	Ensure that the Sun Java System Directory server is running.	
Returned Error Message:	 Ensure that the Oracle Identity Manager is running (that is, the database is running). 	
LDAP Connection exception	 Ensure that all the adapters have been 	
Returned Error Code:	compiled.	
INVALID_CONNECTION_ERROR	 Examine the Oracle Identity Manager record (from the IT Resources form). Verify that the specified IP address, admin ID, and admin password are correct. 	
Target not available	Ensure that the specified Sun Java System Directory server connection values are correct.	
Returned Error Message:		
Connection error - unable to create Initial LDAP.		
Returned Error Code		
TARGET_UNAVAILABLE_ERROR		

Ensure that the specified Sun Java System Directory connection values are correct.
Directory connection values are correct.
 Ensure that the IP address, admin ID, and admin password are correct.
■ Ensure that the following information is
provided:
User Container
, User First Name
User Last Name
User ID
User Password
Check if a user with the assigned ID already exists in Sun Java System Directory.
Assign a new ID for this user, and try again.
 Check if the given Sun Java System Directory connection values are correct.
 Check if an attribute value violates the
schema definition.
Check if an attribute value violates the schema definition.
In the AttrName.Recon.Map.iPlanet lookup definition, check if the decode values are valid attribute names in the target system.

Problem Description	Solution	
Trying to add an invalid value. Therefore, the Create User operation failed.	Check the values entered during user creation.	
Returned Error Message:		
Invalid value specified for an attribute		
Returned Error Code:		
INVALID_ATTR_VALUE_ERROR		
Oracle Identity Manager cannot delete a user.	The specified user ID does not exist in Sun Java System Directory.	
Returned Error Message:		
User does not exist in target		
Returned Error Code:		
USER_DOESNOT_EXIST		
Oracle Identity Manager cannot modify the attribute value of a user.	Check the specified user ID.	
Returned Error Message:		
Invalid attribute value or state		
Returned Error Code:		
INVALID_ATTR_MODIFY_ERROR		
Trying to add a value to a nonexistent attribute. Therefore, the Modify User operation failed.	1. From the corresponding process task, get the value being passed for AttrName of the connector.	
Returned Error Message:	2. Using the name obtained in the previous	
Attribute does not exist	step, check in the AttrName.Recon.Map.iPlanetlookup	
Returned Error Code:	definition if the decode value is a valid	
ATTRIBUTE_DOESNOT_EXIST	attribute name in the target.	
Trying to add an invalid value. Therefore, the Modify User operation failed.	Check the value specified.	
Returned Error Message:		
Invalid value specified for an attribute		
Returned Error Code:		
INVALID_ATTR_VALUE_ERROR		
Trying to add a value to an attribute that does not exist in the AttrName.Recon.Map.iPlanet lookup definition. Therefore, the	 From the corresponding process task, get the value being passed for AttrName of the connector. Using the name obtained in the previous 	
Modify User operation failed.	step, check if an entry has been made in	
Returned Error Message:	the AttrName.Recon.Map.iPlanet lookup definition.	
One or more attribute mappings are missing		
Returned Error Code:		
ATTR_MAPPING_NOT_FOUND		

Problem Description	Solution
Trying to add a duplicate value to an attribute	Check the value specified.
Returned Error Message:	
Duplicate value	
Returned Error Code:	
DUPLICATE_VALUE_ERROR	
Oracle Identity Manager cannot move a user from one container to another.	Generic error. Review the log for more details.
Returned Error Message:	
Moving user to different container failed	
Returned Error Code:	
USER_MOVE_FAILED	
Oracle Identity Manager cannot add a user to a security group.	The user security group specified does not exist in Sun Java System Directory. Check the group
Returned Error Message:	name.
Group does not exist	
Returned Error Code:	
GROUP_DOESNOT_EXIST	
Oracle Identity Manager cannot add a user to a group.	The user is already a member of the group.
Returned Error Message:	
User is already a member of this group	
Returned Error Code:	
DUPLICATE_VALUE	
Oracle Identity Manager cannot add a role to a user.	The specified role for the user in Oracle Identity Manager does not exist in Sun Java
Returned Error Message:	System Directory. Create the role in Sun Java System Directory.
Role does not exist	System Breetory.
Returned Error Code:	
ROLE_DOESNOT_EXIST	
Oracle Identity Manager cannot add a role to a user.	Generic error. Review the log for more details.
Returned Error Message:	
Error while updating user info	
Returned Error Code:	
USER_UPDATE_FAILED	
Oracle Identity Manager cannot add a role to a user.	The user has already been assigned this role.
Returned Error Message:	
User has already been assigned this role	
Returned Error Code:	
DUPLICATE_VALUE	

Problem Description	So	lution	
Oracle Identity Manager cannot remove a role assigned to a user.	Ge	neric error. Review the log for more details.	
Returned Error Message:			
Removing Assigned role failed			
Returned Error Code:			
USER_DELETE_ROLE_FAILED			
Oracle Identity Manager cannot reconcile users from Sun Java System		Change the Sun Java System Directory configuration as follows:	
Directory.	1.	Open the Sun ONE Directory Server	
Returned Error Message:		admin console.	
<pre>javax.naming.NamingException: tcUtilLDAPOperations -> : NamingException : Unable to search LDAP</pre>	2.	Select Configuration , Performance , and Client Control .	
	3.	Set the size limit to unlimited.	
Returned Error Code:	4.	Set the look-through limit to unlimited.	
LDAP: error code 11 - Administrative Limit Exceeded	5.	Save the changes, and restart Sun Java System Directory.	

Known Issues

The following are known issues associated with this release of the connector:

- The user search is based on the user ID only.
- The user ID in the process form should be the same as that of the Oracle Identity Manager User login. Otherwise, reconciliation of the following operations would fail because these operations require direct API calls to update the information:
 - Enable status of user
 - Disable status of user
 - Organization update

4	-2

Index

Adapter Manager form, 2-7 Adapter Manager form, 2-7 adapters compiling, 2-6 Administrative and User Console, 2-2 attributes lookup fields reconciliation scheduled task, 2-5 user reconciliation scheduled task, 2-6	issues, 4-1 IT resources defining, 2-3 iPlanet User, 2-2, 2-3, 2-5, 2-7 parameters, 2-3 types, LDAP Server, 2-2
С	L
compiling adapters, 2-6 configuring reconciliation, 2-4 configuring SSL, 2-7 connector files and directories copying, 2-1	limitations, 4-1 lookup fields reconciliation, 1-2 lookup fields reconciliation scheduled task, 2-5
description, 1-4 destination directories, 2-1 installation media file, 1-4, 2-1 connector testing, 3-1 connector XML files See XML files creating scheduled tasks, 2-4	Oracle Identity Manager Administrative and User Console, 2-2 Oracle Identity Manager Design Console, 2-4
defining IT resources, 2-3 defining scheduled tasks, 2-4 deployment requirements, 2-1 Design Console, 2-4	parameters of IT resources, 2-3 problems, 3-2 process tasks, 1-1 provisioning fields, 1-3 functions, 1-1 module, 1-3
E	R
F files See also XML files files and directories of the connector See connector files and directories functionality supported, 1-1 functions available, 1-1	reconciliation configuring, 2-4 functions, 1-1 lookup fields, 1-2 module, 1-2 trusted source mode, 1-4, 2-3 user, 1-2 requirements for deploying, 2-1 S scheduled tasks
	attributes, 2-5

```
defining, 2-4
lookup fields reconciliation, 2-5
user reconciliation, 2-6
SSL, configuring, 2-7
supported
functionality, 1-1
releases of Oracle Identity Manager, 2-1
target system host platforms, 2-1
target systems, 2-1
```

T

target system host platforms supported, 2-1 target systems supported, 2-1 test cases, 3-1 testing the connector, 3-1 troubleshooting, 3-2 troubleshooting utility, 3-1 trusted source reconciliation, 1-4, 2-3

U

user reconciliation, 1-2 user reconciliation scheduled task, 2-6

X

XML files copying, 2-2 description, 1-4 for trusted source reconciliation, 1-4, 2-3 importing, 2-2