Oracle® Identity Manager

Connector Guide for PeopleSoft Employee Reconciliation

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Primary Author: Vimmika Dinesh

Contributing Authors: Don Gosselin, Lyju Vadassery

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Preface

Oracle Identity Manager Connector Guide for PeopleSoft Employee Reconciliation provides information about integrating Oracle Identity Manager with PeopleSoft Employee Reconciliation.

> **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 PeopleSoft Employee Reconciliation.

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- *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 9.0.0 connector documentation set, visit Oracle Technology Network at

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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.

1 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 PeopleSoft Employee Reconciliation is used to integrate Oracle Identity Manager with PeopleSoft Employee Reconciliation.

> **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
- Employee Data Reconciliation
- Files and Directories That Comprise the Connector

Supported Functionality

Table 1–1 lists the functions that are supported by this connector.

Table 1–1 Functionality Is Supported by the PeopleSoft Employee Reconciliation Connector

Function	Type	Description
Trusted Reconciliation for Employees	Reconciliation	To enable trusted employee reconciliation, you must ensure that the required mappings have been created for the Oracle Identity Manager user and user resource object. You must also ensure that the appropriate rules and action rules have been created and activated.
Untrusted Employee Reconciliation	Reconciliation	To enable untrusted employee reconciliation, delete the No Match Found rule for the untrusted mode reconciliation in the reconciliation action rules.

Employee Data Reconciliation

The connector supports employee data reconciliation in two different ways.

- Bulk Reconciliation (First-time Reconciliation)

  This type of reconciliation is done for on-boarding of existing employees using a flat file. The flat file is generated using an Application Engine program written in PeopleCode. This program is executed using PeoplSoft Application Designer.

- Change Based Reconciliation

  This type of reconciliation (automated) takes place using PeopleSoft Application Messaging Architecture. This mechanism reconcilies data for any newly created or updated employee in real time.

The Change Based Reconciliation mechanism reconciles employee data with the following components:

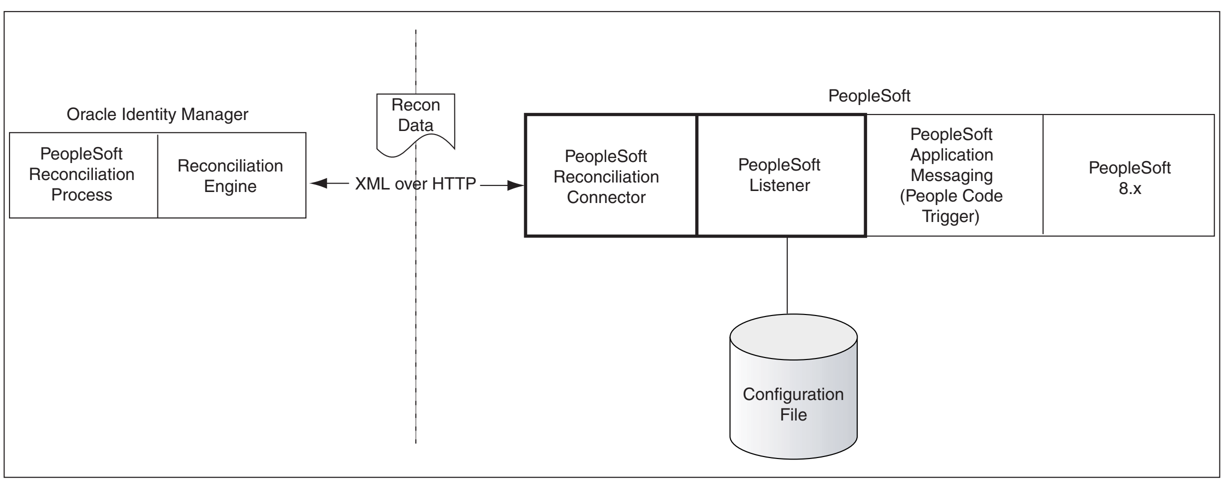
- A PeopleCode trigger, which generates an XML message containing updated information
- Attribute definitions (usually resource parameters) to be synchronized
- A Web service that acts as a passive listener for XML feeds from PeopleSoft
- An XML file, psft_xellerate_msg.xml, that defines the schema of the XML message that will be received from PeopleSoft

The steps involved in the synchronization process from PeopleSoft to Oracle Identity Manager are as follows:

1. Employee information is updated in PeopleSoft, activating a PeopleCode trigger.
2. The PeopleCode trigger generates an XML message containing the updated employee information and sends it to the listener for the PeopleSoft Employee Reconciliation connector.
3. The listener forwards the XML message to the PeopleSoft Employee Reconciliation connector.
4. The PeopleSoft Employee Reconciliation connector uses HTTP to send the XML message to Oracle Identity Manager.
5. Oracle Identity Manager receives the XML message and creates a reconciliation event.

Figure 1–1 illustrates the synchronization process from PeopleSoft Employee Reconciliation to Oracle Identity Manager.

Figure 1–1 Synchronization Process from PeopleSoft Employee Reconciliation to Oracle Identity Manager



Files and Directories That Comprise the Connector

The files and directories that comprise this connector are compressed in the PeopleSoft Employee Reconciliation Rev 3.1.0.zip file, which is in the following directory on the installation media:

```
Enterprise Applications\PeopleSoft Enterprise Applications
```

The following table lists the files and directories that comprise the connector.

File Name with Path	Description
`PeopleSoft\XML\adpPSFT_RECON_DM.xml`	This XML file contains the configuration for the resource object.
`PeopleSoft\XML\adpPSFT_XellerateUser_RECON_DM.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.
`PeopleSoft\lib\peopleSoftApp.war`	This WAR file contains the PeopleSoft listener Web application. It contains all the classes and configuration files required for the Web application to run. This is used to implement changed base reconciliation.
`PeopleSoft\lib\xlPSFTHRRecon.jar`	This JAR file contains the class files that are used to implement bulk reconciliation.
`PeopleSoft\PeopleCode\HRMSCBRecon.txt`	This file contains the code that you must add to the PeopleCode for the `SavePostChange` event while performing the "Publish the Message" procedure.
`PeopleSoft\PeopleCode\HRMSBulkRecon.txt`	This file contains the code for the Application Engine program. It is used to generate the flat file for first-time reconciliation.
`PeopleSoft\properties\configureReconciliation.properties`	This file is used to specify the date format used for reconciliation.
`PeopleSoft\test\psft-xel-test.vbs`	This VBScript file can be used to test the PeopleSoft listener Web service by creating XML feeds similar to the ones created by PeopleSoft Employee Reconciliation.

`PeopleSoft\test\pingRequest.xml`
`PeopleSoft\test\pingResponse.xml`
`PeopleSoft\test\publishRequest.xml`
`PeopleSoft\test\publishResponse.xml`
	These XML files are required by the `psft-xel-test.vbs` file for communicating with the PeopleSoft listener Web service using XML over HTTP.

`PeopleSoft\test\psft_xellerate_msg.xml`	This XML file is used by the `psft-xel-test.vbs` file to define the schema of the XML message that is received from PeopleSoft.
`PeopleSoft\docs\PeopleSoft_Employee_Reconciliation_Connector_Guide.pdf`	This guide provides instructions to deploy the connector.

Note: The files in the `test` directory are used only to run tests on the connector.

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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: Configuring the PeopleSoft Employee Reconciliation Server
- Step 4: Configuring the PeopleSoft Listener for Change-based Reconciliation
- Step 5: Importing the Connector XML Files
- Step 6: Configuring the Reconciliation Module

Step 1: Verifying Deployment Requirements

To verify deployment requirements for the PeopleSoft Employee Reconciliation connector:

1. Ensure that your environment meets the requirements listed in the following table.

Item	Requirement
Oracle Identity Manager	Oracle Identity Manager release 8.5.3 or later
Target Systems	PeopleSoft HRMS 8.9 Ensure that the following components are installed and configured: ■ Tuxedo and Jolt (the application server) ■ PeopleSoft Internet Architecture ■ PeopleSoft Application Designer (2-tier mode)
External Code	The external code requirement consists of the following files: - HRMSBulkRecon.txt - HRMSCBRecon.txt

2. Ensure that you have sufficient administrative rights on the PeopleSoft server to perform the following actions:
   - Create a new message node
   - Configure PeopleSoft Enterprise Portal
   - Add a routing rule to publish messages

Step 2: Copying the Connector Files and External Code

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

- Copy the `adpPSFT_XellerateUser_RECON_DM.xml` file from the *`PSFT_Package_Folder`*`\PSFTAdapter\PeopleSoftHRAdapter-3.0.0\XML\` directory to the *`xellerate_home`*`\xlclient\` directory. The xlclient folder will not pre-exist in OIM installation and need to be created.
- Copy the `adpPSFT_RECON_DM.xml` file from the *`PSFT_Package_Folder`*`\PSFTAdapter\PeopleSoftHRAdapter-3.0.0\XML\` directory to the *`xellerate_home`*`\xlclient\` directory.
- Copy the `HRMSBulkRecon.txt` and `HRMSCBRecon.txt` file from the `PSFT_Adapter_Package\PSFTAdapter\PeopleSoftHRAdapter-3.0.0\PeopleCode` directory to the `xellerate_home\xellerate\Scripts\` directory. The Scripts folder will not pre-exist in OIM installation and need to be created.
- Copy the `xlPSFTHRRecon.jar` file from the `PSFT_Package_Folder\PSFTAdapter\PeopleSoftHRAdapter-3.0.0\lib\` directory to the `xellerate_home\xellerate\ScheduleTask\` directory.
- Copy the `configureReconciliation.properties` file from the `PSFT_Package_Folder\PSFTAdapter\PeopleSoftHRAdapter-3.0.0\properties\` directory to the `xellerate_home\Scripts\` directory.

Step 3: Configuring the PeopleSoft Employee Reconciliation Server

To configure the PeopleSoft Employee Reconciliation server, use an administrator account to perform the following procedures:

- Creating and Publishing the Message
- Configuring PeopleSoft Enterprise Portal
- Configuring PeopleSoft Application Engine Program for Bulk Reconciliation

Creating and Publishing the Message

Perform the following procedures to create and publish the message:

- Create the Message Channel
- Create the Message
- Publish the Message

Create the Message Channel

To create the message channel:

1. Click **Start** menu, **Programs**, and then **Application Designer** from the **PeopleSoft** menu. The PeopleSoft Application Designer (2-tier mode) is displayed.

> **Note:** To open the Application Designer in 2-tier mode you must have database client installed on the machine. Additionally, you must select the connection type as the respective database (for example, Oracle) in the PeopleSoft Application Designer Signon window.

2. Select **New** from the **File** menu. The New Definition dialog box is displayed.
3. In the New Definition dialog box, select **Message Channel,** and then click **OK.**
4. Save the new message channel as **PERSON_BASIC.**
5. Select **Definition Properties** from the **File** menu. The Message Channel Properties dialog box is displayed.
6. In the Message Channel Properties dialog box, select the **Run** option, and then select **Archive Messages.**

Create the Message

After creating the message channel, create the message as follows:

1. In the PeopleSoft Application Designer, select **New** from the **File** menu. The New Definition dialog box is displayed.
2. Select **Message** from the list.
3. Select **Definition Properties** from the **File** menu. The Message Properties dialog box is displayed.
4. Select the **Use** tab.
5. On the Use tab, select the **PERSON_BASIC** message channel and the version of the message that you just created.
6. Select **Active** to make the message an active message.
7. Save the message as **PSFT_XELLERATE_MSG.**
8. Right-click **VERSION_1** and select the Insert Child Record property. A new window Insert Record will appear, to choose the records to be added to the Message.
9. Enter `PERSONAL_DATA` in the Name field, and click the **Insert** button. The PERSONAL_DATA record will be added to the message.
10. Repeat steps 8 to 9 for EMPLOYMENT, JOB, DEPT_TBL, DERIVED_HR, and PSCAMA records.
11. Clicking on each record will display all the fields pertaining to that record in the adjacent window on the right. Select only those fields which are required in the XML Message. Refer psft_xellerate_msg.xml to find out the required fields.
12. Save the message again.

Publish the Message

The final step is to publish the message as follows.

1. Select **Open** from the **File** menu. The Open Definition dialog box is displayed.
2. Select **Component** from the Definition list, enter `PERSONAL_DATA` in the Name Selection Criteria field, and then press **Enter**. All component names starting with the text `PERSONAL_DATA` are displayed.
3. Select **PERSONAL_DATA** from the list, and then click **Open.** The details of the `PERSONAL_DATA` component are displayed.
4. Click the **Structure** tab, right-click **PERSONAL_DATA,** and then select **View PeopleCode.** The PeopleCode for the `PERSONAL_DATA` component is displayed.
5. Select the **SavePostChange** event from the list in the upper-right corner of the window. The PeopleCode for this event is displayed.

6. Copy the code from the following file immediately after the import definitions in the PeopleCode for the `SavePostChange` event:

   xellerate_home\xellerate\Scripts\HRMSCBRecon.txt

7. Add the following function call at the end of the PeopleCode for the `SavePostChange` event:

   > **Note:** Perform this step only if you have already copied the code from the `HRMSCBRecon.txt` file.

```
/***********************************************************************/
/*  Calling the Generate function to generate the
PSFT_XELLERATE_MSG message*/
/***********************************************************************/
Local string &emplid;
&emplid = PERSON.EMPLID;
GENERATE(&emplid);
```

8. Select **Save** from the **File** menu to save the changes to the `PERSONAL_DATA` component.

Configuring PeopleSoft Enterprise Portal

PeopleSoft Enterprise Portal provides a single gateway to critical information in PeopleSoft Employee Reconciliation and other applications and systems. In order to use the PeopleSoft Employee Reconciliation connector, you must perform the following tasks:

1. Configure the Gateway
2. Create the XL_NODE Remote Node
3. Secure the PERSON_BASIC Message Channel

Configure the Gateway

You must configure the PeopleSoft Enterprise Portal gateway so that messages can be sent through the gateway to the connector.

To configure the PeopleSoft Enterprise Portal gateway:

1. Open a Web browser and enter the URL for PeopleSoft Enterprise Portal. The URL for PeopleSoft Enterprise Portal is in the following format:

   http://*servername*/psp/*Databasename*/?cmd=login

   For example:

   `http://psftserver.acme.com/TestDB/?cmd=login`

2. Expand **PeopleTools, Integration Broker,** and then **Gateways** in the list on the portal page. The Gateway component details are displayed.
3. Enter **LOCAL** in the **Integration Gateway ID**, and then click **Search.** The LOCAL gateway is a default gateway that is created when you install PeopleSoft Enterprise Portal.
4. Ensure that the IP Address in the URL of the PeopleSoft listening connector is the IP address of the Web server where PeopleSoft is installed. The URL of the PeopleSoft listening connector is in the following format:

http://*computer_name*/PSIGW/PeopleSoftListeningConnector

For example:

```
http://172.19.151.53/PSIGW/PeopleSoftListeningConnector
```

5. Click **Load Gateway Connectors** to load all target connectors that are registered with the LOCAL gateway.
6. Click **Save**.

Create the XL_NODE Remote Node

You must create a `XL_NODE` node to serve as the remote node.

To create the `XL_NODE` remote node:

1. In PeopleSoft Enterprise Portal, on the left-hand menu, expand **PeopleTools, Integration Broker,** and **Node Definitions**.
2. Click the **Add a New Value** tab. On the Add a New Value tab, enter the Node Name as `XL_NODE` and click the **Add** button. The Node Definition page is displayed.
3. Enter description in the Description field. Make this node a remote node by deselecting the **Local Node** check box and selecting the **Active Node** check box.
4. Click the **Connectors** tab, and enter the following information:

   Gateway ID: `LOCAL`

   Connector ID: `PSFT81TARGET`
5. Perform a lookup.
6. Click the **Properties** link, and enter the following information:

   Property ID: `PSFT81TARGET`

   Property Name: `URL`

   Required value: Enter the URL of the PeopleSoft servlet that will receive the XML message. This URL is in the following format:

   http://*computer_name*:*port*/peopleSoftApp/do/peopleSoftAction

   For example:

   ```
   http://172.21.109.75:8080/peopleSoftApp/do/peopleSoftAction
   ```
7. Click **Save.**
8. Click the **Transactions** tab, and then click **Add Transaction.** The Add Transaction dialog box is displayed.
9. In the Add Transaction dialog box, enter the following details to define the new transaction:

   Transaction Type: `Outbound Asynchronous`

   Request Message: `PSFT_XELLERATE_MSG`

   Request Message Version: `VERSION_1`
10. Click **Add.**
11. To keep the status as active, select **Active.**
12. Click **Save** to save the changes.

Secure the PERSON_BASIC Message Channel

To secure the `PERSON_BASIC` message channel:

1. In PeopleSoft Enterprise Portal, expand **PeopleTools**, **Security**, **Permission & Roles**, and **Permission Lists**, and then search for the **AEAE1000** permission list.
2. Select the **Message Monitor** tab, and then click **Add.**
3. Specify **PERSON_BASIC** as the channel name, and select **FULL** as the access level.
4. Click **Save.**
5. To verify that the `PERSON_BASIC` message channel is in running mode:
   a. Expand **PeopleTools, Integration Broker, Monitor,** and **Monitor Message.**
   b. Click the **Channel Status** tab.
   c. Verify that the `PERSON_BASIC` message channel is running. If it is paused, then click **Run.**

Configuring PeopleSoft Application Engine Program for Bulk Reconciliation

Configuring bulk reconciliation involves:

- Creating the Application Engine Program
- Running the Application Engine in Batch

Creating the Application Engine Program

The bulk reconciliation process requires creating the Application Engine program. To create this program, perform the following steps:

1. Click **Start**, **Programs**, **Peoplesoft8.9hcm**, and then **Application Designer**. The Application Designer window, in the 2-tier mode, is displayed.
2. Select **New** from the **File** menu. The New Definition dialog box is displayed.
3. Select **Application Engine** from the **Definition** list. The App Engine Program window is displayed.
4. Click the '+' in front of MAIN. A Step01 is added to the MAIN by default.
5. Rename the Step 01 to Populate.
6. In the App Engine Program window, select **Action** from the Insert menu. An action to Step 01 named Populate is added.
7. From the drop-down list in the action, select **PeopleCode**.
8. Click **Save** from the File menu to save the Application Engine Program with name `BLKPRCS_HR`.
9. Double-click the **PeopleCode** action. A new PeopleCode window is displayed.
10. Copy the code from the `xellerate_home\xellerate\Scripts\HRMSBulkRecon.txt` file. The location for output file is mentioned in this code. Change that location to a valid location on the PeopleSoft Server.
11. Close the window and Save the Application Engine Program.

Running the Application Engine in Batch

To run the Application Engine in batch, perform the following steps:

1. Open the application designer in 2-tier mode.
2. Provide the correct connection type, user ID, and password.
3. Click the File menu, and open the application engine program, which you just created.
4. Click the RUN PROGRAM control that exists on the bar just below the Menu bar, on the extreme right. The code written on the peoplecode action will get executed.

The comma separated file will get created on the specified location mentioned in the code.

Step 4: Configuring the PeopleSoft Listener for Change-based Reconciliation

This section describes how to configure the listener for the PeopleSoft Employee Reconciliation connector. In the following instructions, *`xellerate_home`* refers to the local Oracle Identity Manager Server installation directory.

To configure the PeopleSoft Listener:

1. Copy the `peopleSoftApp.war` file into a temporary directory.
2. Enter the following command to extract the WAR file in the temporary directory:

   ```
   jar -xvf peopleSoftApp.war
   ```

3. Edit the `attributemap.properties` file in the top-level directory. This file contains the mapping between the PeopleSoft attributes that the XML feed will contain and the Oracle Identity Manager attribute to which it is mapped. You must modify this file on the basis of the local configuration. Apply the following guidelines when you modify this file:

   a. Obtain the XML schema of the PeopleSoft XML feed from the PeopleSoft administrator.

   b. Obtain the xpath of all the PeopleSoft attributes. This is the complete path of the attribute from the root node in the XML file.

   c. Modify the `attributemap.properties` file by entering name-value pairs. Here, `name` is the Oracle Identity Manager field name and `value` is the PeopleSoft attribute `xpath` from the XML feed.

4. Edit the `deployment.properties` file in the top-level directory. This file contains only one property, `message`, that corresponds to the name of the XML message from the PeopleSoft feed. The default value of this attribute is `PSFT_XELLERATE_MSG.` Obtain the correct value for this attribute from the PeopleSoft administrator.
5. Edit the `xlsession.properties` file in the top-level directory. This file contains the following Oracle Identity Manager connection parameters.

   a. **ObjectName:** This is the name of the resource object in Oracle Identity Manager against which the reconciliation event is created. The default value is `PSFT_HR_RO.` However, for untrusted reconciliation, you can change it to any other resource object.

b. **Username:** This is the user name for logging in to Oracle Identity Manager. The default value is `xelsysadm`.

c. **Password:** This is the password for logging in to Oracle Identity Manager. The default value is `xelsysadm`.

6. Edit the `xlclient.properties` file in the top-level directory. This file contains the following system properties that enable an API client to communicate with Oracle Identity Manager:

   a. **xl.homedir:** This property identifies the Oracle Identity Manager Client directory. Typically, the Oracle Identity Manager client directory is *`xellerate_home`*`\xlclient`.

   b. **java.security.policy:** This property identifies the path of the security policy file. Typically, this file is located in the *`xellerate_home`*`\xlclient\config\` directory.

   c. **java.security.auth.login.config:** This property identifies the path of the authentication configuration file. Typically, this file is located in the *`xellerate_home`*`\xlclient\config\` directory.

      Each application server uses a different authentication configuration file:

      IBM WebSphere Application Server: `authws.conf`

      BEA WebLogic Application Server: `authwl.conf`

      JBoss Application Server: `auth.conf`

   d. **java.naming.provider.url:** Identifies the JNP URL of the application server. You can find this value by opening the *`xellerate_home`*`\xlclient\config\xlconfig.xml` file and locating the `<Discovery><CoreServer><java.naming.provider.url>` tag.

7. Edit the following properties in the `configureReconciliation.properties` file from the top-level directory:

   - `reconciliationMode`: This property can accept one of two possible values:
     - If reconciliation is to be performed in a trusted mode, then set the `reconciliationMode` property to `trusted`.
     - If reconciliation is to be performed in a nontrusted mode, then set the `reconciliationMode` property to `nontrusted`.
   - `Serverdateformat`: This property contains the date format that is used for the PeopleSoft server. You can select one of the following date formats:
     - `dd-mmm-yy`
     - `ddmmyy`
     - `yyddmm`
     - `yymmdd`
   - `xellerateOrganization`: This property contains the name of the organization. The default value of this parameter is `Xellerate Users`. The value that you assign to this property must exist in Oracle Identity Manager.
   - `nullDate`: This property contains the default value for a date field. The value is `2200/01/01 00:00:00 PST`. This value is used if the date field is left empty.

- `PeoplesoftstartingYEAR`: The year is specified in two digits. If the number represented by these two digits (*xx*):

  - Is greater than or equal to 50, then it is assumed that the year is 19*xx*.

  - Is less than 50, then it is assumed that the year is 20*xx*.

  This specifies a range of 1950 to 2049 for the year.

XelServerDate=yyyy/MM/dd hh:mm:ss z : This property contains the date format that is used for the Xellerate server.

8. Copy the following files from the *`xellerate_home`*`\xellerate\lib` directory to the `WEB-INF\lib` directory:

   - `wlXLSecurityProviders.jar`
   - `xlAPI.jar`
   - `xlAuthentication.jar`
   - `xlBackOfficeBeans.jar`
   - `xlBackofficeClient.jar`
   - `xlCache.jar`
   - `xlCrypto.jar`
   - `xlDataObjectBeans.jar`
   - `xlDataObjects.jar`
   - `xlLogger.jar`
   - `xlUtils.jar`
   - `xlVO.jar`

   Copy the following files from the *`xellerate_home`*`\xellerate\ext` directory to the `WEB-INF\lib` directory:

   - `oscache.jar`
   - `javagroups-all.jar`

9. Delete the `peopleSoftApp.war` file from the temporary directory where you extracted it, and then use the following command to re-create the file:

   ```
   jar -cvf peopleSoftApp.war .
   ```

10. You must restart the Oracle Identity Manager server and client before deploying the re-created WAR file. In addition, before you start the Oracle Identity Manager server and client, ensure that the `peopleSoftApp.war` file does not exist in the application server (JBoss, WebSphere, or WebLogic) deployment directory and in the *`xellerate_home`*`\xellerate\webapp` directory. If it does, then it must be deleted.

    If you use JBoss and log4j, then logs are produced and archived on a daily basis in the *`jboss_server_home_dir`*`/log/server.log` directory, where *`jboss_server_home_dir`* is the parent directory in which JBoss is installed. For the other application servers, the log file is created and saved in the corresponding `log` directories.

Step 5: Importing the Connector XML Files

To import the connector files:

1. Open the Oracle Identity Manager Administrative and User Console.
2. Click the **Deployment Management** link on the left navigation bar.
3. Click the **Import** link under **Deployment Management.** A dialog box for locating files is displayed.
4. Locate and open the `adpPSFT_RECON_DM.xml` file, which is in the `xellerate_home\xlclient\` directory. Details of the XML file are shown on the File Review page.
5. Click **Add File.** The Substitutions page is displayed.
6. Click **Next.** The Confirmation window is displayed.
7. Click **View Selections.**

   The contents of the XML file are displayed on the Import page. 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.**
8. Click **Import.** The connector file is imported into Oracle Identity Manager.
9. If you plan to use the connector in trusted source reconciliation mode, then perform steps 1 to 8 to import the `xlPSFT_XellerateUser.xml` file. This file is in the `xellerate_home\xlclient\` directory.

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

Step 6: Configuring the Reconciliation Module

To configure the reconciliation module, you will need to create a scheduled task.

Creating the Schedule Task

To create the schedule task, perform the following steps:

1. Open the Oracle Identity Manager Design Console.
2. 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.
7. 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.
8. 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 for information about the values to be specified.
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.

Specifying Values for the Scheduled Task Attributes

This section provides information about the values to be specified for the Employee Reconciliation Scheduled Task.

Employee Reconciliation Scheduled Task

You must specify values for the following attributes of the employee 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	Sample Value
`FolderPath`	This is the Folder Path where PSFT generated Employee Reconciliation files will be available.	`C:\PSFTHR\UserRecon\`
`TargetSystem`	Name of the resource object	`PSFT_HR_RO`
`IsTrusted`	Specifies the mode of reconciliation, trusted or nontrusted.	YES or NO, Default is No
`XellerateOrganization`	Default value for the Oracle Identity Manager Organization name. This value is used to create the Xellerate User in trusted mode.	`Xellerate Users`
`DateFormatFolderPath`	This is the path where the ConfigureReconciliation.properties file will be available.	`C:\PSFTHR\DateFormat\configureReconciliation.properties`

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

3 Testing the Connector

Testing the connector involves verifying that the PeopleSoft Listener Web application can reconcile employees into Oracle Identity Manager. This chapter provides instructions on performing this test.

Prerequisites for Testing the PeopleSoft Listener Web Application

The following are prerequisites for testing the PeopleSoft Listener Web application:

- Ensure that the Microsoft Windows scripting engine is installed. This is required to run VBScript files.
- Ensure that the PeopleSoft XML message schema is described in the `psft_xellerate_msg.xml` file.

Testing the PeopleSoft Listener Web Application

To test the PeopleSoft Listener Web application:

1. In the `psft-xel-test.vbs` file:
   - Modify the value of the `ps_server_url` variable so that it points to the URL for the PeopleSoft Listener Web application.
   - Specify the required PeopleSoft attributes and employee data values in the `ExecuteATM` function.
2. Run `psft-xel-test.vbs`. Ensure that the script runs without any errors.

When the script is run, it creates a reconciliation event. Verify that the reconciliation event is created in Oracle Identity Manager and that the event contains the data that you specify in the VBScript file.

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