Oracle® Cloud

Using the Oracle Talent Acquisition Cloud (Taleo EE) Adapter with Oracle Integration

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## Contents

### Preface

<table>
<thead>
<tr>
<th>Audience</th>
<th>v</th>
</tr>
</thead>
<tbody>
<tr>
<td>Documentation Accessibility</td>
<td>v</td>
</tr>
<tr>
<td>Related Resources</td>
<td>v</td>
</tr>
<tr>
<td>Conventions</td>
<td>vi</td>
</tr>
</tbody>
</table>

### 1 Understand the Oracle Talent Acquisition Cloud (Taleo EE) Adapter

- Oracle Talent Acquisition Cloud (Taleo EE) Adapter Capabilities: 1-1
- What Application Version Is Supported?: 1-1
- About Oracle Talent Acquisition Cloud (Taleo EE) Adapter Use Cases: 1-2
- Workflow to Create and Add an Oracle Talent Acquisition Cloud (Taleo EE) Adapter Connection to an Integration: 1-2

### 2 Create an Oracle Talent Acquisition Cloud (Taleo EE) Adapter Connection

- Prerequisites for Creating a Connection: 2-1
- Create a Connection: 2-1
  - Add a Contact Email: 2-2
  - Configuring Connection Properties: 2-2
  - Configuring Connection Security: 2-3
  - Test the Connection: 2-3
- Upload an SSL Certificate: 2-3

### 3 Add the Oracle Talent Acquisition Cloud (Taleo EE) Adapter Connection to an Integration

- Prerequisites to Add the Oracle Talent Acquisition Cloud (Taleo EE) Adapter Connection to an Integration: 3-1
- Basic Info Page: 3-4
- Configure Oracle Talent Acquisition Cloud (Taleo EE) Adapter Actions: 3-4
- Configure Oracle Talent Acquisition Cloud (Taleo EE) Adapter Operations: 3-4
4 Implement Common Patterns using the Oracle Talent Acquisition Cloud (Taleo EE) Adapter

Import Candidate Data into Oracle Talent Acquisition Cloud (Taleo EE) 4-1
  About the Submit Document Pattern 4-2
  Implement the Submit Document Pattern 4-3
  About the Get Document Status Pattern 4-8
  Implement the Get Document Status Pattern 4-9
  About the Import Attachments Pattern 4-13
  Implement the Import Attachments Pattern 4-14
Preface

This guide describes how to configure the Oracle Talent Acquisition Cloud (Taleo EE) Adapter as a connection in an integration in Oracle Integration.

Note:
The information in this guide applies to all of your Oracle Integration instances. It doesn't matter which edition you're using, what features you have, or who manages your cloud environment. You'll find what you need here, including notes about any differences between the various flavors of Oracle Integration when necessary.

Topics
- Audience
- Documentation Accessibility
- Related Resources
- Conventions

Audience

This guide is intended for developers who want to use the Oracle Talent Acquisition Cloud (Taleo EE) Adapter in integrations in Oracle Integration.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Related Resources

See these Oracle resources:
• Oracle Cloud
  http://cloud.oracle.com
• Using Integrations in Oracle Integration
• Using the Oracle Mapper with Oracle Integration

Conventions

The following text conventions are used in this document:

<table>
<thead>
<tr>
<th>Convention</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>boldface</strong></td>
<td>Boldface type indicates graphical user interface elements associated</td>
</tr>
<tr>
<td></td>
<td>with an action, or terms defined in text or the glossary.</td>
</tr>
<tr>
<td><em>italic</em></td>
<td>Italic type indicates book titles, emphasis, or placeholder variables</td>
</tr>
<tr>
<td></td>
<td>for which you supply particular values.</td>
</tr>
<tr>
<td><strong>monospace</strong></td>
<td>Monospace type indicates commands within a paragraph, URLs, code in</td>
</tr>
<tr>
<td></td>
<td>examples, text that appears on the screen, or text that you enter.</td>
</tr>
</tbody>
</table>
Understand the Oracle Talent Acquisition Cloud (Taleo EE) Adapter

Review the following conceptual topics to learn about the Oracle Talent Acquisition Cloud (Taleo EE) Adapter and how to use it as a connection in integrations in Oracle Integration. A typical workflow of adapter and integration tasks is also provided.

Topics
- Oracle Talent Acquisition Cloud (Taleo EE) Adapter Capabilities
- What Application Version Is Supported?
- About Oracle Talent Acquisition Cloud (Taleo EE) Adapter Use Cases
- Workflow to Create and Add an Oracle Talent Acquisition Cloud (Taleo EE) Adapter Connection to an Integration

Oracle Talent Acquisition Cloud (Taleo EE) Adapter Capabilities

The Oracle Talent Acquisition Cloud (Taleo EE) Adapter enables you to create an integration in Oracle Integration.

You can use the Oracle Talent Acquisition Cloud (Taleo EE) Adapter to asynchronously import data in bulk into Oracle Talent Acquisition Cloud (Taleo EE) (formerly known as Taleo Enterprise Edition) from other applications. You can also import attachments when you use the Oracle Talent Acquisition Cloud (Taleo EE) Adapter to import data from an external application into Oracle Talent Acquisition Cloud (Taleo EE). The Oracle Talent Acquisition Cloud (Taleo EE) Adapter is supported only as an invoke in an integration flow; adding it as a trigger is not supported.

Oracle Talent Acquisition Cloud (Taleo EE) Adapter is one of many predefined adapters included with Oracle Integration. You can configure Oracle Talent Acquisition Cloud (Taleo EE) Adapter as a target connection in an integration in Oracle Integration.

What Application Version Is Supported?

For information about which application version is supported by this adapter, see the Oracle Integration Adapters Certification Matrix under section Oracle Integration Adapters Certification at the top of the page:

Oracle Integration Adapters Certification Matrix
About Oracle Talent Acquisition Cloud (Taleo EE) Adapter Use Cases

The Oracle Talent Acquisition Cloud (Taleo EE) Adapter can be used in scenarios such as the following.

Remove an On-Premises Application from your Architecture

In many cases inbound integration with Oracle Talent Acquisition Cloud (Taleo EE) used to require an existing Java-based application. This might be the only on-premises component in your end-to-end architecture, presenting additional costs and management activities. The Oracle Talent Acquisition Cloud (Taleo EE) Adapter in combination with other with Oracle Integration capabilities allows you to migrate your existing integrations securely to the cloud, removing the additional cost and management this on-premises application requires.

Create Sophisticated Inbound Integrations

Integrations built using the Oracle Talent Acquisition Cloud (Taleo EE) Adapter with Oracle Integration allow you to increase the level of sophistication - data transformation. The Oracle Talent Acquisition Cloud (Taleo EE) Adapter also gives you the ability to connect to multiple upstream systems using other pre-built connectors.

Simplify Endpoint Data Transformation

Rather than formatting inbound data files using ad-hoc and custom scripts at your data endpoints, you can now migrate data transformation into Oracle Integration, leveraging a standards-based approach to constructing your data transformation activities.

Workflow to Create and Add an Oracle Talent Acquisition Cloud (Taleo EE) Adapter Connection to an Integration

You follow a very simple workflow to create a connection with an adapter and include the connection in an integration in Oracle Integration.

This table lists the workflow steps for both adapter tasks and overall integration tasks, and provides links to instructions for each step.

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
<th>More Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Access Oracle Integration.</td>
<td>Go to <a href="https://hostname:port_number/ic">https://hostname:port_number/ic</a>.</td>
</tr>
<tr>
<td>2</td>
<td>Create the adapter connections for the applications you want to integrate. The connections can be reused in multiple integrations and are typically created by the administrator.</td>
<td><a href="#">Create a Connection</a></td>
</tr>
<tr>
<td>3</td>
<td>Create the integration. When you do this, you add invoke (target) connections to the integration.</td>
<td>Creating Integrations of Using Integrations in Oracle Integration and Add the Oracle Talent Acquisition Cloud (Taleo EE) Adapter Connection to an Integration.</td>
</tr>
<tr>
<td>Step</td>
<td>Description</td>
<td>More Information</td>
</tr>
<tr>
<td>------</td>
<td>-------------</td>
<td>------------------</td>
</tr>
<tr>
<td>4</td>
<td>Map data between the trigger connection data structure and the invoke connection data structure.</td>
<td>Mapping Data of Using Integrations in Oracle Integration</td>
</tr>
<tr>
<td>5</td>
<td>(Optional) Create lookups that map the different values used by those applications to identify the same type of object (such as gender codes or country codes).</td>
<td>Creating Lookups of Using Integrations in Oracle Integration</td>
</tr>
<tr>
<td>6</td>
<td>Activate the integration.</td>
<td>Activating Integrations of Using Integrations in Oracle Integration</td>
</tr>
<tr>
<td>7</td>
<td>Monitor the integration on the dashboard.</td>
<td>Monitoring Integrations of Using Integrations in Oracle Integration</td>
</tr>
<tr>
<td>8</td>
<td>Track payload fields in messages during runtime.</td>
<td>Assigning Business Identifiers for Tracking Fields in Messages and Managing Business Identifiers for Tracking Fields in Messages of Using Integrations in Oracle Integration</td>
</tr>
<tr>
<td>9</td>
<td>Manage errors at the integration level, connection level, or specific integration instance level.</td>
<td>Managing Errors of Using Integrations in Oracle Integration</td>
</tr>
</tbody>
</table>
Create an Oracle Talent Acquisition Cloud (Taleo EE) Adapter Connection

A connection is based on an adapter. You define connections to the specific cloud applications that you want to integrate. The following topics describe how to define connections.

Topics

• Prerequisites for Creating a Connection
• Create a Connection
• Upload an SSL Certificate

Prerequisites for Creating a Connection

You must satisfy the following prerequisites to create a connection with the Oracle Talent Acquisition Cloud (Taleo EE) Adapter:

You must own An Oracle Talent Acquisition Cloud (Taleo EE) user account that can access the zone and has the System Integrator role for Oracle Talent Acquisition Cloud (Taleo EE).

Note:

After you create a connection, there are additional prerequisites that you must complete to add an Oracle Talent Acquisition Cloud (Taleo EE) Adapter connection to an integration.

See Prerequisites to Add the Oracle Talent Acquisition Cloud (Taleo EE) Adapter Connection to an Integration.

Create a Connection

The first step in creating an integration is to create the connections to the applications with which you want to share data.

1. In the navigation pane, click Integrations, then click Connections.
2. Click Create.
3. Select the Oracle Talent Acquisition Cloud (Taleo EE) Adapter from the dialog. You can also search for this adapter by entering a partial or full name in the Search field, and clicking Search.

The Create New Connection dialog is displayed.
4. Enter the information to describe the connection.
   • Enter a meaningful name to help others find your connection when they begin to create their own integrations. The name you enter is automatically added in capital letters to the Identifier field. If you modify the identifier name, do not include a blank space (for example, Import Candidates).
   • Select the role (direction) in which to use this connection. You can only use the Oracle Talent Acquisition Cloud (Taleo EE) Adapter connection as an invoke.
   • Enter an optional description of the connection.

5. Click Create.
   Your connection is created and you are now ready to configure connection details, such as email contact, connection properties, security policies, and connection login credentials.

Add a Contact Email
From the Connection Administrator section of the connection, you can add a contact email address for notifications.

1. In the Email Address field, enter an email address to receive email notifications when problems occur.

2. In the upper right corner, click Save.

Configuring Connection Properties
Enter connection information so your application can process requests.

1. Click Configure Connectivity.

2. In the Host field, enter the host address of the Oracle Talent Acquisition Cloud (Taleo EE) instance. For example, http://<your_zone>.tee.taleocloud.net. If you provide only the zone name, like <your_zone>.tee.taleocloud.net, https:// is added by default when testing the connection and using the adapter.

3. In the Port field:
   • enter 443 if you access Oracle Talent Acquisition Cloud (Taleo EE) over HTTPS
   • enter 80 if you access Oracle Talent Acquisition Cloud (Taleo EE) over HTTP
   The value you enter into the Port field is added to the end of the URL when testing the connection and using the adapter. For example, if you entered <your_zone>.tee.taleocloud.net into the Host field and 443 into the Port field, the connection URL becomes https://<your_zone>.tee.taleocloud.net:443.

4. Click OK.
5. Configure connection security.
Configuring Connection Security

Configure security for your Oracle Talent Acquisition Cloud (Taleo EE) Adapter connection by selecting the security policy and security token.

1. Click **Configure Credentials**.
2. Enter your login credentials:
   a. Select the security policy. Only the Username Password Token policy is supported. It cannot be deselected.
   b. Enter a username and password to connect to Oracle Talent Acquisition Cloud (Taleo EE).
   c. Reenter the password a second time.
3. Click **OK**.

Test the Connection

Test your connection to ensure that it is successfully configured.

1. In the upper right corner of the page, click **Test**.
   The connection is tested against this URL: `http|https://Host:Port/smartorg/soap`, where `Host` and `Port` are the values you entered on the Connection Properties dialog. The test validates that this URL is accessible and that the credentials you provided are valid.

   If the test is successful, the following message is displayed and the progress indicator shows 100%.

   `Connection connection_name was tested successfully.`

2. If the test was unsuccessful, an error message is displayed with details. Verify that the configuration details you entered are correct.
3. When complete, click **Save**, then click **Close**.

Upload an SSL Certificate

Certificates are used to validate outbound SSL connections. If you make an SSL connection in which the root certificate does not exist in Oracle Integration, an exception is thrown. In that case, you must upload the appropriate certificate. A certificate enables Oracle Integration to connect with external services. If the external endpoint requires a specific certificate, request the certificate and then upload it into Oracle Integration.

To upload an SSL certificate:

1. In the navigation pane, click **Integrations**, then click the < arrow next to **Designer**.
2. Click **Settings > Certificates**.
   All certificates currently uploaded to the trust store are displayed in the Certificates dialog. The **Filter By > Type** list displays the following details:
   - **Preinstalled**: Displays the certificates automatically installed in Oracle Integration. These certificates cannot be deleted.
• **Uploaded**: Displays the certificates uploaded by individual users. These certificates can be deleted and updated.

You can also search for certificates in the **Search** field. The search results are limited to a maximum of ten records sorted by name for performance and usability reasons. To ensure that your search results are more granular, enter as much of the certificate name as possible.

3. Click **Upload** at the top of the page.

4. In the Upload Certificate dialog box, select the certificate type. Each certificate type enables Oracle Integration to connect with external services.

   • **Trust Certificate**: Use this option to upload a trust certificate.
     a. Enter a unique alias for the certificate.
     b. Click **Browse**, then select the trust file (for example, `.cer` or `.crt`) to upload.

   • **Message Protection Certificate**: Use this option to upload a keystore certificate with SAML token support. Create, read, update, and delete (CRUD) operations are supported on this type of certificate.
     a. Enter a unique alias for the certificate.
     b. Click **Browse**, then select the certificate file (`.cer` or `.crt`) to upload.

   • **Identity Certificate**: Use this option to upload a certificate for two-way SSL communication.
     a. Click **Browse**, then select the keystore file (`.jks`) to upload.
     b. Enter the password of the keystore being imported.
     c. Enter the comma-separated list of aliases from the keystore being imported.
     d. Enter the comma-separated list of passwords corresponding to key aliases.
     e. If you want to display the passwords in clear text, select **Show Key Password(s)**. This enables you to ensure that you are correctly entering a list of keystore passwords.

5. Click **Upload**.

6. Click the certificate name to view details such as the subject of the certificate, the issuer of the certificate, the date the certificate was issued, and the date the certificate expires.
Add the Oracle Talent Acquisition Cloud (Taleo EE) Adapter Connection to an Integration

When you drag the Oracle Talent Acquisition Cloud (Taleo EE) Adapter into the invoke area of an integration, the Adapter Endpoint Configuration Wizard is invoked. This wizard guides you through configuration of the Oracle Talent Acquisition Cloud (Taleo EE) Adapter endpoint properties.

The following sections describe the wizard pages that guide you through configuration of the Oracle Talent Acquisition Cloud (Taleo EE) Adapter as an invoke in an integration. The Oracle Talent Acquisition Cloud (Taleo EE) Adapter cannot be configured as a trigger in an integration.

Topics

• Prerequisites to Add the Oracle Talent Acquisition Cloud (Taleo EE) Adapter Connection to an Integration
• Basic Info Page
• Configure Oracle Talent Acquisition Cloud (Taleo EE) Adapter Actions
• Configure Oracle Talent Acquisition Cloud (Taleo EE) Adapter Operations
• Configure Oracle Talent Acquisition Cloud (Taleo EE) Adapter Request Configuration
• Configure Oracle Talent Acquisition Cloud (Taleo EE) Adapter Attachment Fields
• Summary Page

Prerequisites to Add the Oracle Talent Acquisition Cloud (Taleo EE) Adapter Connection to an Integration

Ensure that you complete the following prerequisites before you add Oracle Talent Acquisition Cloud (Taleo EE) Adapter connections to your integrations.

• Learn more about the Taleo Connect Client. See the Connect Client User Guide.
• Install Taleo Connect Client at a location from which it can ping your Oracle Talent Acquisition Cloud (Taleo EE) instance.
• Create an import specification and configuration using Taleo Connect Client.

Important: When creating the import configuration, ensure that you specify a directory in the Temporary files folder field and that you deselect the Delete temporary files on completion option. This enables you to find the wrapsoap XML file after you run an import job.
• Using the import configuration and specification, initiate at least one import job using Taleo Connect Client.

**Note:**

Ensure that your import contains at least two records. If it includes only one record, you must edit the `wrapsoap` XML file manually to set a loop over the records.

• Find the `wrapsoap` XML file for the import you performed. You must provide this file in the Adapter Endpoint Configuration Wizard when you add a Oracle Talent Acquisition Cloud (Taleo EE) Adapter connection to an integration.

After you initiate an import job, follow these steps to find the `wrapsoap` file on the system Taleo Connect Client is installed to:

1. In Taleo Connect Client, click the **Monitoring** tab, and then click **Wrap SOAP**.
A dialog is displayed that lists the contents of archive that contains the `wrapsoap` XML file that Taleo Connect Client generated for the import.

2. Extract the `wrapsoap` XML file from the archive.

3. Upload the extracted `wrapsoap` file in the adapter configuration wizard when prompted.
Basic Info Page

You can enter a name and description on the Basic Info page of each adapter in your integration.

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
</table>
| What do you want to call your endpoint?      | Provide a meaningful name so that others can understand the responsibilities of this connection. You can include English alphabetic characters, numbers, underscores, and dashes in the name. You cannot include the following:  
  • Blank spaces (for example, My Inbound Connection)  
  • Special characters (for example, #;83& or righ(t)now4)  
  • Multibyte characters                                                                                           |

| What does this endpoint do?                  | Enter an optional description of the connection’s responsibilities. For example: This connection receives an inbound request to synchronize account information with the cloud application. |

Configure Oracle Talent Acquisition Cloud (Taleo EE) Adapter Actions

You can select the option to import data into Oracle Talent Acquisition Cloud (Taleo EE).

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Import data into Taleo</td>
<td>Select this option to import data into Oracle Talent Acquisition Cloud (Taleo EE).</td>
</tr>
</tbody>
</table>

Configure Oracle Talent Acquisition Cloud (Taleo EE) Adapter Operations

You can choose which operation you want to perform with Oracle Talent Acquisition Cloud (Taleo EE).

Typically your integration will contain three instances of the Oracle Talent Acquisition Cloud (Taleo EE) Adapter: one for each operation described below. First, use the Submit Document operation to submit a file containing data to import into Oracle Talent Acquisition Cloud (Taleo EE). Next, use the Get Document Status operation to poll the status of the import. Finally, when the Get Document Status operation reports the import is complete, use the Get Document Results operation to get the file sent to Oracle Talent Acquisition Cloud (Taleo EE) containing the imported data.
<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Submit Document</td>
<td>Select this option to submit a document to import into Oracle Talent Acquisition Cloud (Taleo EE). This operation’s response contains a MessageKey that you use with the Get Document Status operation.</td>
</tr>
</tbody>
</table>
| Get Document Status         | Select this option to get the status of a Submit Document operation that you’ve already performed. This operation’s response contains a correlationKey and a status. You use the correlationKey with the Get Document Results operation. The status can be one of the following values:  
  • 1 – NEW  
  • 2 – INCOMING  
  • 3 – READY  
  • 4 – INPROGRESS  
  • 5 – COMPLETED  
  • 6 - INTERRUPTED  
  • 7 - SUSPENDING  
  • 8 - SUSPENDED  
  • 9 – INERROR  
  • 10 – STOPPING  
  • 11 – DELEGATED |
| Get Document Results        | When the status returned from the Get Document Status operation is 5 – COMPLETED, use this operation with a correlationKey to retrieve the results of the data import. The response from this operation contains the results of the records imported into Oracle Talent Acquisition Cloud (Taleo EE), including if the import of each record succeeded or failed. |

### Configure Oracle Talent Acquisition Cloud (Taleo EE) Adapter Request Configuration

You can configure the request configuration used to import to or export from Oracle Talent Acquisition Cloud (Taleo EE) by uploading a configuration created in the connect client application.

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select a New File</td>
<td>Select the wrapsoap file that was created when you completed an import job using Taleo Connect Client. See Prerequisites to Add the Oracle Talent Acquisition Cloud (Taleo EE) Adapter Connection to an Integration.</td>
</tr>
<tr>
<td>Selected file</td>
<td>Displays the path of the wrapsoap file you selected.</td>
</tr>
</tbody>
</table>
Configure Oracle Talent Acquisition Cloud (Taleo EE) Adapter Attachment Fields

You can configure which fields to send attachments for if you’re including them with your import. This is an optional configuration step. You can complete it only if you selected the Include Attachments option on the Request Configuration page.

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Include Attachments</td>
<td>Optional: Select this option to include attachments with the imported data.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select Attachment Fields</td>
<td>Enter text to use to filter the fields displayed in the Available Fields list.</td>
</tr>
<tr>
<td>Available Fields</td>
<td>Lists the fields that you can send attachments for.</td>
</tr>
<tr>
<td></td>
<td>Click a field and click the &gt; icon (Move selected items to: Selected Attachment Fields) to select that field. You can also click the &gt;&gt; icon (Move all items to: Selected Attachment Fields) to select all fields that are currently displayed.</td>
</tr>
<tr>
<td>Selected Attachment Fields</td>
<td>Lists the fields that you’ve selected to send attachments for.</td>
</tr>
</tbody>
</table>

Summary Page

You can review the specified adapter configuration values on the Summary page.

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summary</td>
<td>Displays a summary of the configuration values you defined on previous pages of the wizard.</td>
</tr>
<tr>
<td></td>
<td>To return to a previous page to update any values, click the appropriate tab in the left panel or click Back. Click Cancel to cancel your configuration details.</td>
</tr>
</tbody>
</table>
Implement Common Patterns using the Oracle Talent Acquisition Cloud (Taleo EE) Adapter

You can implement these common patterns using the Oracle Talent Acquisition Cloud (Taleo EE) Adapter

Topics:
• Import Candidate Data into Oracle Talent Acquisition Cloud (Taleo EE)

Import Candidate Data into Oracle Talent Acquisition Cloud (Taleo EE)

This section provides an overview of importing candidate data from another application into Oracle Talent Acquisition Cloud (Taleo EE).

The following steps are performed as part of a typical integration flow that imports information from another application into Oracle Talent Acquisition Cloud (Taleo EE).

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Configure the other application to write data you want to import into Oracle Talent Acquisition Cloud (Taleo EE) to an FTP server accessible to Oracle Integration. You may need to use an integration flow (using the FTP adapter and a specific application adapter) to accomplish this.</td>
</tr>
<tr>
<td>2</td>
<td>Create a connection using the FTP adapter.</td>
</tr>
<tr>
<td>3</td>
<td>Complete the prerequisites for creating a connection using the Oracle Talent Acquisition Cloud (Taleo EE) Adapter.</td>
</tr>
<tr>
<td>4</td>
<td>Create a connection using the Oracle Talent Acquisition Cloud (Taleo EE) Adapter.</td>
</tr>
<tr>
<td>5</td>
<td>Complete the prerequisites for adding the Oracle Talent Acquisition Cloud (Taleo EE) Adapter connection to an integration.</td>
</tr>
<tr>
<td>6</td>
<td>Create an integration using the submit document pattern or the import attachments pattern to import candidate data or add attachments to imported candidate records.</td>
</tr>
<tr>
<td>Step</td>
<td>Description</td>
</tr>
<tr>
<td>------</td>
<td>-------------</td>
</tr>
<tr>
<td>7</td>
<td>Create an integration using the get document status pattern to get the status of candidate or attachment import. Note that you can combine multiple patterns in a single integration, but it might make sense to keep the get document status pattern in its own integration so that you can reuse it for all situations in which you import information into Oracle Talent Acquisition Cloud (Taleo EE).</td>
</tr>
</tbody>
</table>

### About the Submit Document Pattern

The submit document pattern imports candidate data (without attachments) exported from another application from an FTP server into Oracle Talent Acquisition Cloud (Taleo EE).

This pattern translates exported CSV or XML data from an FTP server, in batches of 200, and sends these records to Oracle Talent Acquisition Cloud (Taleo EE). For each batch of 200, the parent flow writes the `messageKey` received in response to a stage directory.

When all records have been sent to Oracle Talent Acquisition Cloud (Taleo EE), the `messageKeys` received for each batch of 200 records are written to a file on an FTP server. The get document status pattern reads this file and uses the `messageKeys` to process the candidate import results.

**Note:**

Instead of writing the `messageKeys` to a file on an FTP server, you can instead pass them directly to the child flow using the REST adapter. This works best for smaller loads, like when you want to import candidates daily.

For bulk loads (of 5000 records or more), it is strongly recommended to write the `messageKeys` to a file on the FTP server and have the child flow read them from this file. Using FTP and a scheduled orchestration for the child flow can reduce the polling time during bulk loads and avoid unnecessary processing time and timeouts.
Implement the Submit Document Pattern

You can implement the submit document pattern as its own integration flow or as a part of a larger flow that contains the get document status pattern and other patterns your use case requires.

1. Create a scheduled orchestration integration flow.
2. Use the **FTP Adapter** to list the files containing candidate data exported from another application. The FTP Adapter configuration should be similar to the following:
Where the Input Directory is the directory on the FTP server where the candidate data export files reside. No mapping is required for this FTP Adapter instance.

3. Add a For Each action to process each file containing candidate data. The For Each configuration should be similar to the following:

4. Inside of the For Each action, use the FTP Adapter to download a file containing exported candidate data. The FTP Adapter configuration should be similar to the following:
5. Inside of the For Each action, add a Stage File action to read candidate data from the file in chunks of 200 records.

a. On the Configure Operations page, choose to read the file in segments. Use the Expression Builder to specify the file name. To find the correct element to use in the expression, expand the SftpDownloadFile, DownloadFiletoICSResponse, DownloadResponse, ICSFiles, ICSFile, and the Properties elements, and then select the filename element. In the Specify the Directory to read from field, enter the same value you entered for Download Directory when you configured the FTP Adapter to download a file containing exported candidate data, and then select the Process Sequentially option.

b. On the Schema Options page, select an appropriate value from the Which one of the following choices would be used to describe the structure of the file contents? list. On the Format Definition page, upload a schema or a sample file of the type you chose on the previous screen, and then enter additional details about the data, if you chose the CSV option.

6. Inside of the area for the Stage File action, use the Oracle Talent Acquisition Cloud (Taleo EE) Adapter to import candidates read from a segment of the exported candidate data files:
a. On the **Operations** page, select the **Submit Document** option.

b. On the **Request Configuration** page, upload the `wrapsoap` XML file you generated with Taleo Connect Client for your use case.

c. Configure the mapping for the Oracle Talent Acquisition Cloud (Taleo EE) Adapter. In the **Target** panel, expand the **Document**, **Attributes**, and **Attribute** elements. Assign the value of the **Attribute** element to the value of the **version** attribute from the `wrapsoap` XML file, like `http://www.taleo.com/ws/tee800/2009/01`. Assign the value of the **name** attribute of this element to **version**.

d. In the **Target** panel, expand the **Content** and **ImportEntities** elements, and then click the repeating element that appears, like the **Candidate-merge** element in the example below. Expand the **Mapping Components** panel and the **XSL Elements** folder, and then drag a **for-each** element to the **Statement** panel. Expand the **Source** panel and the **ReadResponse** element, and then drag the corresponding repeated element (like **candidate**) to the **select** attribute in the **Statement** panel.

Here’s an example of what the complete mapping looks like:
7. Inside of the area for the **Stage File** action, add another **Stage File** action to write the `messageKey` received from sending a segment of the candidate data to Oracle Talent Acquisition Cloud (Taleo EE).

   a. On the **Configure Operations** page, choose to write to a file, and then give the file a name. Specify an output directory to write the file to, and then select the **Append to Existing File** option.

   b. On the **Schema Options** page, select an appropriate value from the **Which one of the following choices would be used to describe the structure of the file contents?** list. On the **Format Definition** page, upload a schema or a sample file of the type you chose on the previous screen, and then enter additional details about the data, if you chose the **CSV** option.

   c. Configure the mapping for the Stage File action. In the **Source** panel, expand the **IntegrationMessage** element, and then drag the **MessageKey** element to the appropriate element in the **Target** panel.

8. Add a **Stage File** action outside of the **For Each** action area. Select the **List Files** operation. List the files from the output directory and indicate the same file name you chose in the previous **Stage File** action.

9. Right before the **Stop** action, use the **FTP Adapter** to write the file containing the `messageKeys` from stage to an FTP server. From there, the child process can read the `messageKeys` and poll for status of the import job.

   On the **Operations** page of the FTP Adapter Endpoint Configuration Wizard, select the **Write File** operation. Specify a location to write the file on the FTP server, and then provide a pattern for the file name. Select the **Append to Existing File** option. On the **Schema** and **File Contents - Definition** pages of the
wizard, use the same information you provided for the Stage File action where the messageKeys were written to a file.


11. Save the integration.

Next, use the get document status pattern to process the messageKeys written to an FTP server.

About the Get Document Status Pattern

The get document status pattern processes all messageKeys the parent flow received when sending records to Oracle Talent Acquisition Cloud (Taleo EE). The child flow can be triggered on a schedule or from a REST call. For each messageKey the child flow reads, it checks the state of the import and tries to receive a correlationKey. If the import is not in the required state (5—Completed), or if the correlationKey is not received, the child flow waits for several seconds before trying again. When the import is in the required state and when the correlationKey is received, the flow uses the correlationKey to poll Oracle Talent Acquisition Cloud (Taleo EE) for the results of the import. The flow writes the results to a stage directory.

When the flow has processed all messageKeys, it writes the status of all records to a file on an FTP server.
Implement the Get Document Status Pattern

You can implement the get document status pattern as its own integration flow or as a part of a larger flow that contains the submit document pattern and other patterns your use case requires.

If implemented as its own flow, the get document status pattern can be reused for all use cases requiring the Oracle Talent Acquisition Cloud (Taleo EE) Adapter.
The steps below describe how you can implement the get document status pattern as its own scheduled integration, reading the `messageKeys` the submit document pattern received from an FTP server instead of from a REST invocation.

1. Create a scheduled integration flow.
2. Use the **FTP Adapter** to download the file containing the `messageKeys` the submit document pattern received.
   
   No mapping is required for this FTP Adapter instance.
3. Add a **Stage File** action to read the `messageKeys` from the downloaded file.
   
   a. On the **Configure Operations** page, choose to read the entire file. Use the Expression Builder to specify the file name. To find the correct element to use in the expression, expand the `$FtpDownloadFile`, `DownloadFileToICSResponse`, `DownloadResponse`, `ICSFiles`, `ICSFile`, and the `Properties` elements, and then select the `filename` element. In the **Specify the Directory to read from** field, enter the same value you entered for `Download Directory` when you configured the FTP Adapter to download a file containing the `messageKeys`.
   
   b. On the **Schema Options** page, select an appropriate value from the **Which one of the following choices would be used to describe the structure of the file contents?** list. On the **Format Definition** page, upload a schema or a sample file of the type you chose on the previous screen, and then enter additional details about the data, if you chose the **CSV** option.
4. Add a **For Each** action to process each `messageKey`. The For Each configuration should be similar to the following:

   ![View Action](image)

   5. Inside of the For Each action, add a **Log** action to write message key values to the Activity Stream. Select the **When trace is enabled** option, and then use the Expression Builder to construct the message. Use the **concat** function, found in the **String** folder in the **Components** panel, to construct a log message from the `messageKey`.

---

Chapter 4
Import Candidate Data into Oracle Talent Acquisition Cloud (Taleo EE)
6. Inside of the For Each action, use the **Assign** action to define string variables for the import job status and the **correlationKey** returned when an import job completes. Name the variables **Assign1_status** and **Assign1_CorrelationKey**. Assign them both values of 0. They’ll be updated later.

7. Inside of the For Each action, add a **While** action to poll Oracle Talent Acquisition Cloud (Taleo EE) for the status of the import job until it is completed. Use the Expression Editor to define a condition statement of **$Assign1_status != 5.0**.

8. Inside of the While loop, use the **Oracle Talent Acquisition Cloud (Taleo EE) Adapter** to get the status of the submit document operation. On the **Operations** page, select the **Get Document Status** option.

9. Configure the mapping for the Oracle Talent Acquisition Cloud (Taleo EE) Adapter. In the **Source** panel, drag the element that contains the **messageKey** to the **messageKey** element in the **Target** panel.

10. Inside of the While loop, use the **Assign** action to update the values of the variables you defined earlier.

   a. Use the Expression Editor to assign the value of the **Assign1_status** variable to the status sent by the Oracle Talent Acquisition Cloud (Taleo EE) Adapter.
b. Use the Expression Editor to assign the value of the **Assign1_CorrelationKey** variable to the status sent by the Oracle Talent Acquisition Cloud (Taleo EE) Adapter.

11. Inside of the While loop, add a **Log** action to write the current value of the **Assign1_status** variable to the Activity Stream. Select the **When trace is enabled** option, and then use the Expression Builder to construct the message by dragging the **$Assign1_status** variable to the **Expression** field.

12. Immediately outside of the While loop (but still inside of the For Each action), use the **Oracle Talent Acquisition Cloud (Taleo EE) Adapter** to get the results of the submit document operation. On the **Operations** page, select the **Get Document Results** option.

13. Configure the mapping for the Oracle Talent Acquisition Cloud (Taleo EE) Adapter. In the **Source** panel, drag the **$Assign1_CorrelationKey** element to the **messageKey** element in the **Target** panel.

14. Inside of the For Each action, add a **Stage File** action to write the result document to a file. Specify a file name and an output directory (like `/tmp/taleo/import/out/respDoc/`). Indicate that you do want to specify a structure for the contents of the file, and then select the **XML Schema (XSD) document** option. Upload an XSD file containing the following schema:

```xml
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
    xmlns:nxsd="http://xmlns.oracle.com/pcbpel/nxsd"
    targetNamespace="http://xmlns.oracle.com/pcbpel/adapter/opaque/"
    elementFormDefault="qualified"
    attributeFormDefault="unqualified"
    xmlns:tns="http://xmlns.oracle.com/pcbpel/adapter/opaque/"
    xmlns:ns="http://xmlns.oracle.com/pcbpel/nxsd"
    nsFormDefault="qualified"
    targetNamespace="http://xmlns.oracle.com/pcbpel/adapter/opaque/"
    elementFormDefault="qualified"
    attributeFormDefault="unqualified"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:ns="http://xmlns.oracle.com/pcbpel/nxsd"
    nsFormDefault="qualified"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:ns="http://xmlns.oracle.com/pcbpel/nxsd"
    nsFormDefault="qualified"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:ns="http://xmlns.oracle.com/pcbpel/nxsd"
    nsFormDefault="qualified"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:ns="http://xmlns.oracle.com/pcbpel/nxsd"
    nsFormDefault="qualified"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:ns="http://xmlns.oracle.com/pcbpel/nxsd"
    nsFormDefault="qualified"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:ns="http://xmlns.oracle.com/pcbpel/nxsd"
    nsFormDefault="qualified"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:ns="http://xmlns.oracle.com/pcbpel/nxsd"
    nsFormDefault="qualified"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:ns="http://xmlns.oracle.com/pcbpel/nxsd"
    nsFormDefault="qualified"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:ns="http://xmlns.oracle.com/pcbpel/nxsd"
    nsFormDefault="qualified"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:ns="http://xmlns.oracle.com/pcbpel/nxsd"
    nsFormDefault="qualified"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:ns="http://xmlns.oracle.com/pcbpel/nxsd"
    nsFormDefault="qualified"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:ns="http://xmlns.oracle.com/pcbpel/nxsd"
    nsFormDefault="qualified"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:ns="http://xmlns.oracle.com/pcbpel/nxsd"
    nsFormDefault="qualified"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:ns="http://xmlns.oracle.com/pcbpel/nxsd"
    nsFormDefault="qualified"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:ns="http://xmlns.oracle.com/pcbpel/nxsd"
    nsFormDefault="qualified"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:ns="http://xmlns.oracle.com/pcbpel/nxsd"
    nsFormDefault="qualified"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:ns="http://xmlns.oracle.com/pcbpel/nxsd"
    nsFormDefault="qualified"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:ns="http://xmlns.oracle.com/pcbpel/nxsd"
    nsFormDefault="qualified"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:ns="http://xmlns.oracle.com/pcbpel/nxsd"
    nsFormDefault="qualified"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:ns="http://xmlns.oracle.com/pcbpel/nxsd"
    nsFormDefault="qualified"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:ns="http://xmlns.oracle.com/pcbpel/nxsd"
    nsFormDefault="qualified"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:ns="http://xmlns.oracle.com/pcbpel/nxsd"
    nsFormDefault="qualified"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:ns="http://xmlns.oracle.com/pcbpel/nxsd"
    nsFormDefault="qualified"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:ns="http://xmlns.oracle.com/pcbpel/nxsd"
    nsFormDefault="qualified"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:ns="http://xmlns.oracle.com/pcbpel/nxsd"
    nsFormDefault="qualified"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:ns="http://xmlns.oracle.com/pcbpel/nxsd"
    nsFormDefault="qualified"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:
```
15. Configure the mapping for the Stage File action. In the Target panel, click the OpaqueElementBase64 element. Expand the Mapping Components panel, the Functions folder, and then the Advanced folder. Drag the encodeReferencetoBase64 function to the OpaqueElementBase64 element in the Statement panel. Expand the Source panel, and then expand the Document and Attachment elements. Drag the attachmentReference element to the reference node in the Statement panel.

16. Inside of the For Each action, add a Stage File action to list the file that was just written that contains the results. Select the List Files option, and then specify the same file name and location as you did in the previous Stage File action where you wrote the file.

17. Inside of the For Each action, Use the FTP Adapter to write the results file to an FTP server. Chose to write the file, use the ASCII Transfer Mode, don't select the Append to existing file option, and specify an output directory on the FTP server to which to write the file. Finally, specify a File Name Pattern that you can use to distinguish one response file from another. For example, ImportResult_Cand_MRG_%yyMMddHHmmss.xml.


19. Save the integration.

About the Import Attachments Pattern

The import attachments pattern reads attachments from an FTP server and adds them to corresponding candidate records that have already been imported into Oracle Talent Acquisition Cloud (Taleo EE).

This pattern reads a zip file from an FTP server. This zip file must contain the attachments to import and a CSV file that contains numbers identifying the record that each file should be attached to, what to name the file when it is imported into Oracle Talent Acquisition Cloud (Taleo EE), a relative path (to the CSV file in the zip) to the file to import for the candidate record, and any comments you would like to add.

<table>
<thead>
<tr>
<th>Number</th>
<th>File Name</th>
<th>File Content</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>29948</td>
<td>Resume.doc,.Resume1.doc</td>
<td>Test attach via ICS</td>
<td></td>
</tr>
<tr>
<td>29951</td>
<td>Resume.doc,.Resume2.doc</td>
<td>Test attach via ICS</td>
<td></td>
</tr>
<tr>
<td>29954</td>
<td>Resume.doc,.Resume3.doc</td>
<td>Test attach via ICS</td>
<td></td>
</tr>
<tr>
<td>29956</td>
<td>Resume.doc,.Resume4.doc</td>
<td>Test attach via ICS</td>
<td></td>
</tr>
<tr>
<td>29958</td>
<td>Resume.doc,.Resume5.doc</td>
<td>Test attach via ICS</td>
<td></td>
</tr>
</tbody>
</table>

When you generate the import specification in Taleo Connect Client used to generate the wrapsoap XML file used with the Oracle Talent Acquisition Cloud (Taleo EE) Adapter for this pattern, you must specify an attachment field and select the **Value is the location of a file to attach** option for that field.
Later, in the Oracle Talent Acquisition Cloud (Taleo EE) Adapter Endpoint Configuration Wizard, select the same field on the Attachment Fields page.

When all records have been sent to Oracle Talent Acquisition Cloud (Taleo EE), the messageKeys received for each attachment are written to a file on an FTP server. The get document status pattern reads this file and uses the messageKeys to process the results.

Implement the Import Attachments Pattern

You can implement the import attachments pattern as its own integration flow or as a part of a larger flow that contains the submit document pattern and other patterns your use case requires.

The steps below describe how you can implement the get import attachments pattern as its own scheduled integration, reading the zip file containing the files to attach and the required CSV file from an FTP server.

1. Create a scheduled integration flow.
2. Use the FTP Adapter to download the zip file containing the files to attach and the required CSV file.

No mapping is required for this FTP Adapter instance.
3. Add a **For Each** action to process each attachment. The For Each configuration should be similar to the following:

![For Each action diagram]

4. Inside of the **For Each** action, add a **Switch** action to process each attachment. Edit the **Undefined** branch:
   a. Click **Expression Mode**.
   b. In the **Components** panel, expand the **Functions** and **String** folders, and then drag **ends-with** to the **Expression** field.
   c. In the **Source** panel, expand the **DownloadResponse**, **ICSFiles**, **ICSFile**, and **Properties** elements. Drag the **filename** element to the **Expression** field.
   d. Replace **string2** in the expression with `".csv"`.

![Switch action diagram]

5. In the **IF Switch** branch, add a **Stage File** action to read the attachment file:
   a. Select the **Read Entire File** option.
   b. Use the Expression Editor to specify the file name to read.
c. Use the Expression Editor to specify the directory to read the file from.

d. Indicate that you do want to specify the structure for the file, and then select **CSV**. Upload the CSV file included in the attachment import zip.

6. In the **IF** Switch branch, use the **Oracle Talent Acquisition Cloud (Taleo EE) Adapter** to import the attachments:

   a. On the **Operations** page, select the **Submit Document** option.

   b. On the **Request Configuration** page, upload the **wrapsoap** XML file you generated with Taleo Connect Client for your use case. In the **Include Attachments** list, select **Yes**.

   c. Select the **Attachment Fields** you specified when you created the import configuration using Taleo Connect Client.

   d. Configure the mapping for the Oracle Talent Acquisition Cloud (Taleo EE) Adapter. In the **Target** panel, expand the **Document, Attributes, and Attribute** elements. Assign the value of the **Attribute** element to the value of the **version** attribute from the **wrapsoap XML** file, like `http://www.taleo.com/ws/tee800/2009/01`. Assign the value of the **name** attribute of this element to **version**.
e. In the Source panel, expand the $currentFile, ICSFile, and the Properties elements. In the Target panel, expand the Document and the Attributes elements. From the Source panel, drag the directory element to the AttachmentsStagingDirectory in the Target panel.

f. In the Target panel, expand the Content and ImportEntities elements, and then click the repeating element that appears, like the Candidate-attach-recruiter-file-to-profile element in the example below. Expand the Mapping Components panel and the XSL Elements folder, and then drag a for-each element to the Statement panel. Expand the Source panel and the ReadResponse element, and then drag the corresponding repeated element (like candidate) to the select attribute in the Statement panel.

g. In the Source panel, map the children of the candidate element to their counterparts under the repeating element you just mapped in the Target panel. If it is present, give the searchType attribute of the Number element a value of search.

7. In the IF Switch branch, add another Stage File action to write the messageKey received from sending an attachment to Oracle Talent Acquisition Cloud (Taleo EE).

   a. On the Configure Operations page, choose to write to a file, and then give the file a name. Specify an output directory to write the file to, and then select the Append to Existing File option.
b. On the **Schema Options** page, select an appropriate value from the **Which one of the following choices would be used to describe the structure of the file contents?** list. On the **Format Definition** page, upload a schema or a sample file of the type you chose on the previous screen, and then enter additional details about the data, if you chose the **CSV** option.


c. Configure the mapping for the Stage File action. In the **Source** panel, expand the **IntegrationMessage** element, and then drag the **MessageKey** element to the appropriate element in the **Target** panel.

![Diagram of mapping](image)

8. Add a **Stage File** action outside of the **For Each** action area. Select the **List Files** operation. List the files from the output directory and indicate the same file name you chose in the previous **Stage File** action.

9. Right before the **Stop** action, use the **FTP Adapter** to write the file containing the **messageKeys** from stage to an FTP server. From there, the child process can read the **messageKeys** and poll for status of the import job.

   On the **Operations** page of the FTP Adapter Endpoint Configuration Wizard, select the **Write File** operation. Specify a location to write the file on the FTP server, and then provide a pattern for the file name. Select the **Append to Existing File** option. On the **Schema** and **File Contents - Definition** pages of the wizard, use the same information you provided for the Stage File action where the **messageKeys** were written to a file.

10. Configure the mapping for the FTP Adapter. In the **Source** panel, expand the **ListFilesResponse**, **FileList**, and **ICSFile** elements. Drag the **FileReference** element to the **FileReference** element in the **Target** panel.

11. Save the integration.

   Next, use the get document status pattern to process the **messageKeys** written to an FTP server.