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Preface

This guide describes how to configure the Workday 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 Workday 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 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 for which you supply particular values.</td>
</tr>
<tr>
<td><code>monospace</code></td>
<td>Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.</td>
</tr>
</tbody>
</table>
Understand the Workday Adapter

Review the following conceptual topics to learn about the Workday 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:
- Workday Adapter Capabilities
- What Application Version Is Supported?
- Workflow to Create and Add a Workday Adapter Connection to an Integration

Workday Adapter Capabilities

The Workday Adapter enables you to create an integration with Workday in Oracle Integration.

Workday is a SAAS-based human capital management system that also supports financial management systems for organizations.

Workday can be the one system for all your organizational activities such as recruiting, payroll, finance, inventory, and so on. The Workday Public API, Reporting API, and Workday Integration platform play the major roles in integrating the Workday Adapter with third-party applications. The Workday Adapter supports all these services at a single gateway. The Workday Adapter handles complexities such as understanding different SOAP web services, presenting all modules, services, and operations, and executing reports about different Workday modules.

The Workday Adapter enables nontechnical developers to build integration solutions from Workday to other applications without dealing with complexities such as different APIs.

The Workday Adapter provides the following capabilities:
- Connecting your on-premises financial system with Workday Human Capital Management (HCM) cloud.
- Browsing different Workday modules with little effort.
- Getting the right operation with a detailed description in the user interface to assist you in building integrations rapidly.
- Checking the reports accessible to you and selecting them and exporting the data from Workday.
- Getting the data from an existing Enterprise Interface Builder (EIB) integration to your financial system.
- Exporting the bulk data from Workday through the Workday Adapter is easy and enables you to synchronize the same data with different SaaS and on-premises applications within the same business flow.
- Provisioning from Workday to other resources of your organization.
• Supporting the latest API version to ensure that you always use the latest Workday functionality.

The Workday Adapter is one of many predefined adapters included with Oracle Integration. You can configure the Workday 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

Workflow to Create and Add a Workday Adapter Connection to an Integration

Follow a workflow to create a connection with an adapter and include the connection in an integration in Oracle Integration.

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
<th>More Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</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>Create a Workday Adapter Connection</td>
</tr>
<tr>
<td>2</td>
<td>Create the integration. When you do this, you add trigger and invoke connections to the integration.</td>
<td>Create Integrations and Add the Workday Adapter Connection to an Integration</td>
</tr>
<tr>
<td>3</td>
<td>Map data between the trigger connection data structure and the invoke connection data structure.</td>
<td>Map Data of Using Integrations in Oracle Integration</td>
</tr>
<tr>
<td>4</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>Manage Lookups of Using Integrations in Oracle Integration</td>
</tr>
<tr>
<td>5</td>
<td>Activate the integration.</td>
<td>Manage Integrations of Using Integrations in Oracle Integration</td>
</tr>
<tr>
<td>6</td>
<td>Monitor the integration on the dashboard.</td>
<td>Monitor Integrations of Using Integrations in Oracle Integration</td>
</tr>
<tr>
<td>7</td>
<td>Track payload fields in messages during runtime.</td>
<td>Assign Business Identifiers for Tracking Fields in Messages and Manage Business Identifiers for Tracking Fields in Messages of Using Integrations in Oracle 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>8</td>
<td>Manage errors at the integration level, connection level, or specific integration instance level.</td>
<td>Manage Errors of <em>Using Integrations in Oracle Integration</em></td>
</tr>
</tbody>
</table>
Create a Workday Adapter Connection

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

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 Workday Adapter.

- Create a Workday User Account
- Mandatory Policies
- Assign a Domain Policy
- Obtain the Workday Hostname and Tenant Name from the Sandbox User Interface

Create a Workday User Account

You must have an existing Workday integration system user account. A user account is required to provide the credentials necessary to create the connection and integration. Create the Workday integration system user with the Integration System security group (Unconstrained) group.

Note:

See the Mandatory Policies tables for lists of all domain policies that are required to connect to Oracle Integration and view the operations, reports, and Enterprise Interface Builder (EIB).

Custom Security Group: Create a custom security group for the integration user. This group should include authorizations based on the customer requirement, such as web service operations, task, report, and EIB. Ensure that the custom security group is assigned to the integration system user (ISU).

ISU_SOADEMOEVENT_Group

This is the security group created to assign specific authorizations to the user. Permissions given to this group are based on the customer requirement.

1. Log in to the Workday application.
2. Search for the task **Create Integration System User**.
3. Set the username and password.
4. Search for the task **Create Security Group**.
5. Select the type as **Integration System security group (Unconstrained)**.
6. Set the group name and press **Enter**.
7. Select the integration system username from the dropdown list to assign the user to that group.

**Mandatory Policies**

- **Design-Time**: The minimum Workday authorizations/policies required to create the Workday endpoint during the design phase where you select desired Workday services and reports based on the business use case. These policies are categorized as design-time authorization (configuration) in the following tables.

- **Run-Time**: The minimum Workday authorization/policies required for running the created integration after activation and during the execution. These policies are categorized as runtime authorization (configuration) in the following tables.

**Table 2-1  Workday Public Web Service (Design-Time Configuration)**

<table>
<thead>
<tr>
<th>Operation</th>
<th>Domain Policy</th>
<th>Functional Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>View Only</td>
<td>Security Configuration</td>
<td>System</td>
</tr>
<tr>
<td>View Only</td>
<td>Security Activation</td>
<td>System</td>
</tr>
</tbody>
</table>

**Table 2-2  Workday Public Web Service (Runtime Configuration)**

<table>
<thead>
<tr>
<th>Operation</th>
<th>Domain Policy</th>
<th>Functional Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>View Only</td>
<td>Security Configuration</td>
<td>System</td>
</tr>
<tr>
<td>View Only</td>
<td>Security Activation</td>
<td>System</td>
</tr>
</tbody>
</table>

本書

**Note:**

To access any specific web service, you must have the related domain policy access.

In case of the web service, the Security Configuration domain policy is used to access the security analysis of the Workday accounts report.

Security activation accesses the inactivated domain web service operation. The inactivated domain checks the accessibility of the modules.

**Table 2-3  EIB (Design-time Configuration)**

<table>
<thead>
<tr>
<th>Operation</th>
<th>Domain Policy</th>
<th>Functional Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>View Only</td>
<td>Integration Build</td>
<td>Integration</td>
</tr>
<tr>
<td>Get Only</td>
<td>Integration Process</td>
<td>Integration</td>
</tr>
</tbody>
</table>
Table 2-4   EIB (Runtime Configuration)

<table>
<thead>
<tr>
<th>Operation</th>
<th>Domain Policy</th>
<th>Functional Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>View Only</td>
<td>Integration Build</td>
<td>Integration</td>
</tr>
<tr>
<td>Get Only</td>
<td>Integration Process</td>
<td>Integration</td>
</tr>
<tr>
<td>Get and Put</td>
<td>Integration Event</td>
<td>Integration</td>
</tr>
</tbody>
</table>

In case of EIB (design time), you must have Integration Process domain policy access to see all integration systems.

For EIB (run time), you must have Integration Event domain policy access to launch the integration and create the integration events. To create integration events, the PUT permission is required for this domain policy.

The integration build is required to access the View Web Service Operations Security Groups report to check the tasks and actions assigned to the user.

Table 2-5   RAAS (Design-Time Configuration)

<table>
<thead>
<tr>
<th>Operation</th>
<th>Domain Policy</th>
<th>Functional Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>View Only</td>
<td>Manage: All Custom Reports</td>
<td>System</td>
</tr>
</tbody>
</table>

Table 2-6   RAAS (Runtime Configuration)

<table>
<thead>
<tr>
<th>Operation</th>
<th>Domain Policy</th>
<th>Functional Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>View Only</td>
<td>Manage: All Custom Reports</td>
<td>System</td>
</tr>
</tbody>
</table>

In case of RAAS, there is only one domain policy (Manage: All Custom Report) that is mandatory to see all the reports (shared or owned by the user) and execute in Oracle Integration.

**Note:**

Ensure the following properties are set for your Workday EIB to be visible in the Adapter Endpoint Configuration Wizard.

- Data source type must be set to **Custom Report**.
- MIME type must be set to **CSV**.

Ensure the following properties are set for your Workday RaaS report to be visible in the Adapter Endpoint Configuration Wizard.

- The report type must be set to **Advanced** or **Search**.
- The report must be enabled as a **Web Service**.
- The report must be **shared** with or **owned** by the Oracle Integration user.
Assign a Domain Policy

Assign Get access for the Get Worker web service or Put access for the Put School Type web service.

1. Log in to the Workday application.
2. Search for the View Security for Securable Item in the search box.
3. Enter the web service name in the Securable Item field that you need to access, and click OK.
4. On the results page, click View Security for the specific task that you need to evaluate.
5. Click the ellipsis icon (…) for the specific security policy and navigate to Domain > Edit Security Policy Permissions.
6. Add a new row in the Integration Permissions section, search for the security group, and select the Get/Put checkbox to assign the permission.
7. Click OK.
8. On the Activate Pending Security Policy Changes page, enter your comments, and click OK.
9. Select the Confirm checkbox, and click OK.

Note:
If there is more than one domain policy, select them one by one and assign the policies. After assigning the policies, activate all of them at once.

Follow these steps to assign a domain policy to Get access on the Report Data Source:

1. Log in to the Workday application.
2. Search for the View Custom Report task in the search box.
3. Enter the report name in the Custom Report field that you need to access, and click OK.
4. Click the ellipsis icon (…) for the specific security policy and navigate to Domain > Edit Security Policy Permissions.
5. Add a new row in the Integration Permissions section, search for the security group to which you need to provide access, and select the Get/Put checkbox to assign the permission.
6. Click OK.
7. On the Activate Pending Security Policy Changes page, enter your comments, and click OK.
8. Select the Confirm checkbox, and click OK.
Obtain the Workday Hostname and Tenant Name from the Sandbox User Interface

When you create your Workday Adapter connection on the Connections page, you must specify the following details:

- Workday hostname
- Tenant name

The following steps describe how to obtain this information.

To obtain the Workday hostname:

1. Log in to the Workday sandbox or production instance.
2. Search for **Public Web Service** in the search box.
3. Select **Public Web Service** from the search results.
4. Under **Actions**, click the **Web Services** list and select **View WSDL**.
   
   The WSDL file is opened for viewing.
5. Scroll down to the end to find the hostname value assigned to the **location** element.
6. Copy and save the Workday hostname portion of the value. For example:

    
    location="https://wd5-impl-services9.workday.com/...."

To obtain the tenant name from the sandbox:

1. Log in to the Workday sandbox.
2. On the first page, find the tenant details appearing in the upper left corner of the page. The tenant details follow the Sandbox Type – Tenant Name format.
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**.

**Note:**

You can also create a connection in the integration canvas of:

- An orchestrated integration (See Define Inbound Triggers and Outbound Invokes.)
- A basic routing integration (See Add a Trigger (Source) Connection.)

The Create Connection — Select Adapter dialog is displayed.

3. Select an adapter from the dialog. You can also search for the type of adapter to use 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, Sales Opportunity).

   • Select the role (direction) in which to use this connection (trigger, invoke, or both). Only the roles supported by this adapter are displayed for selection. When you select a role, only the connection properties and security policies appropriate to that role are displayed on the Connections page. If you select an adapter that supports both invoke and trigger, but select only one of those
roles, then try to drag the adapter into the section you did not select, you receive an error (for example, configure an Oracle Service Cloud (RightNow) Adapter as only an invoke, but drag the adapter to the trigger section).

- 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, connection login credentials, and (for certain connections) agent group.

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.

Configure Connection Properties

Enter connection information so your application can process requests.

1. Click Configure Connectivity.

The Connection Properties dialog is displayed. The information to specify was obtained when you completed the Workday Adapter prerequisites. See Prerequisites for Creating a Connection.

2. In the Hostname field, enter the host name of the Workday server.

3. In the Tenant Name field, provide the tenant name.
4. In the **Web Service Version** field, enter the Workday web service APIs version. If you do not provide the version, the default version (for example, v31.0) is applied. The value in the **Web Service Version** field is used in the following manner in different scenarios:

- Creation of a new integration: While creating a new integration using the Workday Adapter, the version available on the Connection page of the Workday Adapter (user-provided or default) is used.

- Editing an integration:
  - The user-provided version on the Connection page is used, if present.
  - Otherwise, the version on which the Workday Adapter endpoint was originally configured is used (in this case, the Workday Adapter extracts the original version).

  **Note**: If you do not provide any value on the Connection page, then when editing, the integration default version (v31.0) is **not** used.

- Regeneration of the adapter endpoint: The version on which the Workday Adapter endpoint was originally configured is used (in this case, the Workday Adapter extracts the original version).

- Activation of the integration: The version on which the Workday Adapter endpoint was originally configured is used (in this case, the Workday Adapter extracts the original version).

5. Click **OK**.

6. Configure connection security.

### Configure Connection Security

Configure security for your Workday Adapter connection.

1. Click **Configure Security**.

   The **Security Policy** field is displayed. Only the **Workday Username Token Policy** is supported. It cannot be deselected.

2. Enter a username authorized to access the Workday account and the password. Section “Creating a Workday User Account” of Prerequisites for Creating a Connection describes the integration user and roles. You can also assign the admin role named Security Admin to the user.

3. Reenter the password a second time.

4. Click **OK**.

5. Test your connection.

### Test the Connection

Test your connection to ensure that it is successfully configured.

1. In the upper right corner of the page, click **Test**.

2. If your adapter connection uses a WSDL, you are prompted to select the type of connection testing to perform:

   - **Validate and Test**: Performs a full validation of the WSDL, including processing of the imported schemas and WSDLs. Complete validation can
take several minutes depending on the number of imported schemas and WSDLs. No requests are sent to the operations exposed in the WSDL.

- **Test**: Connects to the WSDL URL and performs a syntax check on the WSDL. No requests are sent to the operations exposed in the WSDL.

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

**Connection connection_name was tested successfully.**

3. If your connection was unsuccessful, an error message is displayed with details. Verify that the configuration details you entered are correct.

4. 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 Passwords**. 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 Workday Adapter Connection to an Integration

When you drag the Workday Adapter into the invoke area of an integration, the Adapter Endpoint Configuration Wizard appears. This wizard guides you through configuration of the Workday Adapter endpoint properties.

These topics describe the wizard pages that guide you through configuration of the Workday Adapter as an invoke in an integration. The Workday Adapter cannot be used as a trigger in an integration.

Topics:
- Basic Info Page
- Actions Page
- Service Selection Page
- Operations Page
- RaaS Services Page
- Summary Page

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 rightnow)  
  - 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. |
**Actions Page**

Specify the action to execute in the Workday application.

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Query Information</td>
<td>Select to request business objects such as employee records, benefits, and others through use of the get and find operations.</td>
</tr>
<tr>
<td>Create, Update or Delete Information</td>
<td>Select to perform operations such as employee onboarding, data synchronization, and others.</td>
</tr>
<tr>
<td>Import Bulk Data into Workday</td>
<td>Select to perform operations such as importing multiple records for payroll, time sheets, and others using the import operation.</td>
</tr>
<tr>
<td>Extract Bulk Data From Workday</td>
<td>Select to import bulk data from Workday such as payroll records, time sheets, and others using the import operation.</td>
</tr>
</tbody>
</table>

**Service Selection Page**

Select the target Workday product and module to execute in the Workday application.

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select a Workday Product</td>
<td>Select one of the following targets:</td>
</tr>
<tr>
<td></td>
<td>• Human Capital Management: Select to perform create, update, delete, and get operations on HCM Workday Business Services data.</td>
</tr>
<tr>
<td></td>
<td>• Financial Management: Select to perform create, update, delete, and get operations on Financial Workday Business Services data.</td>
</tr>
<tr>
<td>Select the Workday module to integrate with</td>
<td>If you selected Human Capital Management:</td>
</tr>
<tr>
<td></td>
<td>• Human Resources</td>
</tr>
<tr>
<td></td>
<td>• Workforce Planning</td>
</tr>
<tr>
<td></td>
<td>• Recruiting</td>
</tr>
<tr>
<td></td>
<td>• Talent</td>
</tr>
<tr>
<td></td>
<td>If you selected Financial Management:</td>
</tr>
<tr>
<td></td>
<td>• Revenue Management</td>
</tr>
<tr>
<td></td>
<td>• Inventory</td>
</tr>
<tr>
<td></td>
<td>• Cash Management</td>
</tr>
<tr>
<td></td>
<td>• Financial Management</td>
</tr>
<tr>
<td></td>
<td>• Professional Services Automation</td>
</tr>
<tr>
<td></td>
<td>• Resource Management</td>
</tr>
</tbody>
</table>

**Operations Page**

Specify the business operation to execute in the Workday application.

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Click to Show Actual Operation Names</td>
<td>Select to view the actual names of the operations.</td>
</tr>
</tbody>
</table>
### RaaS Services Page

Specify the Workday RaaS or EIB report for your integration.

Select a report type in the **Select the type of Workday Reports** section.

- **Reports as a Service (Custom Reports):** Select to use a custom report to execute and retrieve data.
- **Enterprise Interface Builder (EIB-based Reports):** Select to use an EIB-based report to execute and retrieve data.

If you select **Reports as a Service (Custom Reports)**, the following fields are displayed:

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workday Report as a Service (RaaS)</td>
<td>Select the specific reports.</td>
</tr>
</tbody>
</table>

If you select **Enterprise Interface Builder (EIB-based Reports)**, the following fields are displayed:

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
</table>
| Select one of the following operations           | • **Launch an EIB Integration:** This operation launches an EIB configured at Workday and retrieves reports in CSV format. The result of this operation is the creation of an integration event and the processing of the integration.  
  • **Monitor EIB Integration Progress:** This operation monitors the execution of an EIB and identifies the status of EIB execution for further processing.  
  • **Download file generated by EIB integration:** This is the last operation to download the file generated from the outcome of EIB execution. This operation requires the Workday drive location of the generated file that is available from the **Monitor EIB Integration Progress** operation. |
| Description                                      | Displays a description of the selected operation.                         |
| Available EIB Integrations                       | Search for the available EIB integration. This section is displayed if you selected **Launch an EIB Integration**. |
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. The information that is displayed can vary by adapter. For some adapters, the selected business objects and operation name are displayed. For adapters for which a generated XSD file is provided, click the XSD link to view a read-only version of the file. 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 Workday Adapter

You can use the Workday Adapter to implement the following common patterns.

Topics:
• Maintain the Records of a New Employee
• Process RaaS Reports that Support the Delivery of Data in CSV Format

Maintain the Records of a New Employee

When a new employee is recruited and enters the organization, data and records for that employee must be maintained. For example, their qualifications:
• Work experience
• Personal details

To configure the Workday Adapter to use Workday web services:
1. Add the Workday Adapter as an invoke connection in an integration. This starts the Adapter Endpoint Configuration Wizard.
2. On the Basic Info page, specify a name and an optional description, then click Next.
3. On the Workday Actions page, select Query Information, then click Next.
5. On the Operations page, select Get Workers from the Operations list, and click Next.
6. In the mapper, perform the required mappings, save, and close the integration.
7. Activate the integration and test the endpoint generated. The URL is displayed in a banner at the top of the Integrations page.

All worker data is displayed.

To configure the Workday Adapter to use a synchronous Report as a Service (RaaS):
1. Add the Workday Adapter as an invoke connection in an integration. This starts the Adapter Endpoint Configuration Wizard.
2. On the Basic Info page, specify a name and optional description, then click Next.
3. On the Workday Actions page, select Extract Bulk Data From Workday, then click Next.
4. On the RaaS Services page, select Reports as a Service (Custom Reports) as the report name, then click Next.
5. In the mapper, perform the required mappings, save, and close the integration.

6. Activate the integration and test the endpoint generated. The URL is displayed in a banner at the top of the Integrations page.

A file having data of the selected report is downloaded.

Process RaaS Reports that Support the Delivery of Data in CSV Format

This section provides an overview of creating an integration that uses the Enterprise Interface Builder (EIB-based Reports) Workday API and its operations to retrieve reports in CSV format, monitor execution, and download the CSV file.

1. Create an orchestrated integration to be triggered by a schedule.

2. Drag a Workday Adapter connection into the integration canvas.

3. Specify the following details in the Adapter Endpoint Configuration Wizard.
   - On the Basic Info page, name the adapter (for this example, Launch_EIB).
   - On the Action page, select Extract Bulk data from Workday.
   - On the RaaS Services page, select Enterprise Interface Builder (EIB-based Reports) as the type of Workday report.
   - Select Launch an EIB Integration as the integration operation. This operation launches an EIB that is configured at Workday. It retrieves reports in CSV format. The result of this operation is the creation of an integration event along with the processing of the integration.
   - Select an EIB integration configured in Workday (for this example, INT_SOA_CSV001 is selected).

4. Drag a second Workday Adapter connection into the integration canvas.

   Specify the following details in the Adapter Endpoint Configuration Wizard.
   - On the Basic Info page, name the adapter (for this example, Monitor_event).
   - On the Action page, select Extract Bulk data from Workday.
   - On the RaaS Services page, select Enterprise Interface Builder (EIB-based Reports) as the type of Workday report.
   - Select Monitor EIB Integration Progress as the integration operation. This operation monitors the execution of an EIB and identifies the status of EIB execution for further processing.

5. Perform mapping between the two connections.
6. Drag a third Workday Adapter connection into the integration canvas.

7. Specify the following details in the Adapter Endpoint Configuration Wizard.
   - On the Basic Info page, name the adapter (for this example, **DOWNLOAD_file**).
   - On the Action page, select **Extract Bulk data from Workday**.
   - On the RaaS Services page, select **Enterprise Interface Builder (EIB-based Reports)** as the type of Workday report.
   - Select **Download file generated by EIB integration** as the integration operation. This operation downloads the file generated from the outcome of EIB execution. This operation requires the Workday drive location for the generated file that is available from the **Monitor EIB Integration Progress** operation.

8. Perform mapping between the two connections.

9. Drag a wait action below the first Workday Adapter (**Launch_EIB**).
   The wait action ensures that the process waits for the specified time before monitoring the progress of reports (EIB).

10. Drag a stage file action below the third Workday Adapter (**DOWNLOAD_file**). The stage file action reads the CSV format data from Oracle Integration at the downloaded location.
    - Name the action.
    - Specify the delimited data file name (for this example, **INT_SOA_Test_CSV.csv**) and directory name.
11. Drag an FTP Adapter below the stage file action to write the file to a target FTP server.

12. Specify the following details in the Adapter Endpoint Configuration Wizard.
   • Name the adapter (for this example, FTP_Write).
   • Select Write File from the Select Operation list. This operation writes the file to the target FTP server.
   • Select to create a new schema from a CSV file (for this example, named INT_SOA_Test_CSV.csv).
   • Specify an output directory and file name pattern.

13. Perform mapping between the stage file action and the FTP Adapter.

The completed integration looks as follows:
Troubleshoot the Workday Adapter

Review the following topics to learn about troubleshooting issues with the Workday Adapter.

Topics:
- Common Error Messages
- Identify the Correct CSV Fields to Use in Stage File Actions in Workday EIB Integrations

Additional integration troubleshooting information is provided. See Troubleshoot Oracle Integration in Using Integrations in Oracle Integration.

Common Error Messages

Note the following common Workday Adapter errors and solutions when executing Enterprise Interface Builder (EIB) and Reports as a Service (RaaS) reports.

- Enterprise Interface Builder (If You Can Already Launch the Enterprise Interface Builder)
- Reports as a Service Errors

Enterprise Interface Builder (If You Can Already Launch the Enterprise Interface Builder)

Note the following Workday issues and solutions while executing Enterprise Interface Builder (EIB) reports.

Task Submitted is Not Authorized
This error occurs when you do not have view access to the report data source.

Solution: Provide view access on the report data source to the user.

Current System User Does Not Have Access to Launch this Integration System
This error occurs when you do not have view access to the report data source.

Solution: Share the report attached in Enterprise Interface Builder with the integration system user (ISU) user and provide view access on the report data source to the user.
Reports as a Service Errors

Note the following Workday issues and solutions while executing Reports as a Service (RaaS) reports.

**Task Submitted is Not Authorized**

The following error occurs when you do not have view access for the report data source.

**Solution**: Provide view access on the report data source to the user.

**Attempt to Run a Report Where You Do Not Have Access to One or More Fields Referenced in the Report’s Filters**

The following error occurs when you do not have view access for the report data source.

**Solution**: Provide the data source view access on the report field used as a filter in the report.

Identify the Correct CSV Fields to Use in Stage File Actions in Workday EIB Integrations

You can create an integration that uses the **Enterprise Interface Builder (EIB/Asynchronous RaaS)** Workday API and its operations to retrieve reports in CSV format, monitor execution, and download the CSV file. This type of integration uses the stage file action to read data from Oracle Integration.

To identify the correct CSV fields:

1. Log in to Workday and search for **View Custom Report**.
2. Click the custom report in the search results list.
3. Enter the report name you are using in the EIB integration as a data source and press **Enter**.
4. In the column tab of the report view, use the names in the highlighted column heading **Overriding XML Alias** as the CSV fields.