Oracle® Cloud Using the Workday Adapter with Oracle Integration Generation 2





Oracle Cloud Using the Workday Adapter with Oracle Integration Generation 2,

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Preface

This guide describes how to configure this adapter as a connection in an integration in Oracle Integration.



The use of this adapter may differ depending on the features you have, or whether your instance was provisioned using Standard or Enterprise edition. These differences are noted throughout this guide.

Topics:

- Audience
- Documentation Accessibility
- Diversity and Inclusion
- Related Resources
- Conventions

Audience

This guide is intended for developers who want to use this 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.

Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and



partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

Related Resources

See these Oracle resources:

- Oracle Cloud
 - http://cloud.oracle.com
- Using Integrations in Oracle Integration Generation 2
- Using the Oracle Mapper with Oracle Integration Generation 2

Conventions

The following text conventions are used in this document:

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



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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?
- Workday Adapter Use Cases
- Workflow to Create and Add a Workday Adapter Connection to an Integration



There are overall service limits for Oracle Integration. A service limit is the quota or allowance set on a resource. See Service Limits.

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:

- Supports Reports as a Service (RaaS) to use a custom report to execute and retrieve data
- Connects your on-premises financial system with Workday Human Capital Management (HCM) cloud.
- Browses different Workday modules with little effort.
- Gets the right operation with a detailed description in the user interface to assist you in building integrations rapidly.

- Checks the reports accessible to you and selects them and exports the data from Workday.
- Gets the data from an existing Enterprise Interface Builder (EIB) integration to your financial system.
- Exports the bulk data from Workday through the Workday Adapter. This is easy and enables you to synchronize the same data with different SaaS and onpremises applications within the same business flow.
- Provisions from Workday to other resources of your organization.
- Supports 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 Connectivity Certification Matrix.

See Connectivity Certification Matrix.

Workday Adapter Use Cases

Common use cases for the Workday Adapter are as follows:

- Employee onboarding to Salesforce, SAP, and other applications.
- Background data checks from an external system to Workday.
- Workday payroll and pay slip data export to an external payroll system.
- Organization assignment data synchronization from an external system to Workday.

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.

Step	Description	More Information
1	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.	Create a Workday Adapter Connection
2	Create the integration. When you do this, you add trigger and invoke connections to the integration.	Create Integrations and Add the Workday Adapter Connection to an Integration



Step	Description	More Information
3	Map data between the trigger connection data structure and the invoke connection data structure.	Map Data in Using Integrations in Oracle Integration Generation 2
4	(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).	Manage Lookups in <i>Using Integrations in Oracle Integration Generation 2</i>
5	Activate the integration.	Manage Integrations in <i>Using Integrations in Oracle Integration Generation 2</i>
6	Monitor the integration on the dashboard.	Monitor Integrations in <i>Using Integrations in Oracle Integration Generation 2</i>
7	Track payload fields in messages during runtime.	Assign Business Identifiers for Tracking Fields in Messages and Manage Business Identifiers for Tracking Fields in Messages in <i>Using Integrations in</i> <i>Oracle Integration Generation 2</i>
8	Manage errors at the integration level, connection level, or specific integration instance level.	Manage Errors in Using Integrations in Oracle Integration Generation 2



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.

- Enable Functional Areas
- Create a Workday User Account
- Mandatory Policies
- · Assign a Domain Policy
- Obtain the Workday Hostname and Tenant Name from the Sandbox User Interface
- Register an API Client to Use the Authorization Code Credentials Security Policy

Enable Functional Areas

The following functional areas must be enabled in the Workday application to use the Workday Human Capital Management and Workday Financial Management products in the Adapter Endpoint Configuration Wizard.

- Common Financial Management
- Recruiting
- Staffing

Follow these steps to enable the functional areas:

- Log in to the Workday application.
- Search for the Maintain Functional Areas task in the search box.
- Select the Enabled checkbox for the Common Financial Management, Recruiting, and Staffing functional areas.
- Click OK, then click Done.
- 5. Search for **Activate Pending Security Policy Changes** in the search box.
- 6. On the Activate Pending Security Policy Changes page, enter your comments in the **Comments** field, and click **OK**.
- 7. Select the **Confirm** checkbox, and click **OK**.



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.

- 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/polices 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/polices required for running the
 created integration after activation and during the execution. These policies are
 categorized as runtime authorization (configuration) in the following tables.

Workday Public Web Service (Runtime Configuration)

To access any specific web service, you must have the related domain policy access. See Assign a Domain Policy.



Table 2-1 EIB (Design-time Configuration)

Operation	Domain Policy	Functional Area
View Only	Integration Build	Integration
Get Only	Integration Process	Integration

Table 2-2 EIB (Runtime Configuration)

Operation	Domain Policy	Functional Area
View Only	Integration Build	Integration
Get Only	Integration Process	Integration
Get and Put	Integration Event	Integration

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.

In addition, the ISU must have access to the data source of the report being used as a data source in EIB. See Assign a Domain Policy.

Table 2-3 RAAS (Design-Time Configuration)

Operation	Domain Policy	Functional Area
View Only	Manage: All Custom Reports	System

Table 2-4 RAAS (Runtime Configuration)

Operation	Domain Policy	Functional Area
View Only	Manage: All Custom Reports	System

In case of RAAS, the integration system user (ISU) must have access to the Manage: All Custom Reports domain policy that is mandatory to see all custom reports (shared or owned by the user) and execute in Oracle Integration. In addition, ISU must have access to Reports Data Source. See Assign a Domain Policy.



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.
- 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. In the **Data Source** field, click the ellipsis icon (...) next to the data source and navigate to **Security** > **View Security**.
- 5. In the **Domain** column, click the eclipse icon (...) for the specific security policy and navigate to **Domain** > **Edit Security Policy Permissions**.
- 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.
- 7. Click OK.
- 8. On the Activate Pending Security Policy Changes page, enter your comments, and click
- 9. Select the **Confirm** checkbox, and click **OK**.



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.

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. The Workday hostname value appears. For example:

```
location="https://hostname/ccx/....)"
```

6. Copy and save the Workday hostname value from the location element. For example:

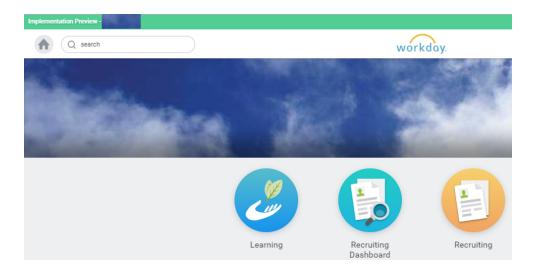
```
wd5-impl-services1.workday.com
```

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.



Register an API Client to Use the Authorization Code Credentials Security Policy

To generate the client ID and client secret, you must register an API client in Workday.

- 1. Log in to the Workday application.
- 2. Search for API Client in the search box.
- Click the Register API Client task.
- 4. In the **Client Name** field, enter a client name.
- 5. In the Client Grant Type field, select Authorization Code Grant.
- 6. Select the Enforce 60 Minute Access Token Expiry checkbox.
- 7. In the Access Token Type field, select Bearer.
- 8. In the **Redirection URI** field, enter the redirect URI in the following format:

https://OIC instance URL/icsapis/agent/oauth/callback

- 9. In the **Scope (Functional Areas)** field, select the scopes in accordance with the operation you need to execute.
- 10. Select the Include Workday Owned Scope checkbox.
- 11. Click **OK**. The client ID and client secret are displayed.
- 12. Copy the client ID and client secret for your API client. You'll need to enter those values on the Connections page when you configure security for your Workday Adapter connection in Oracle Integration. See Configure Connection Security.
- 13. Click Done.



Create a Connection

Before you can build an integration, you have to create the connections to the applications with which you want to share data.

To create a connection in Oracle Integration:

- In the left navigation pane, click Home > Integrations > Connections.
- Click Create.



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.)
- In the Create Connection Select Adapter dialog, select the adapter to use for this
 connection. To find the adapter, scroll through the list, or enter a partial or full name in the
 Search field and click

Q

Search.

- 4. In the Create Connection dialog, enter the information that describes this connection.
 - a. 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, don't include blank spaces (for example, SALES OPPORTUNITY).
 - **b.** Enter optional keywords (tags). You can search on the connection keywords on the Connections page.
 - c. Select the role (direction) in which to use this connection (trigger, invoke, or both). Only the roles supported by the 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, you'll get an error when you try to drag the adapter into the section you didn't select. For example, let's say you configure a connection for the Oracle Service Cloud (RightNow) Adapter as only an invoke. Dragging the adapter to a trigger section in the integration produces an error.
 - **d.** Enter an optional description of the connection.
- Click Create.

Your connection is created. You're now ready to configure the connection details, such as connection properties, security policies, connection login credentials, and (for certain connections) agent group.



Configure Connection Properties

Enter connection information so your application can process requests.

1. Go to the Connection Properties section.

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.
- 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).
- In the URL Prefix field, enter the prefix of your Workday instance URL in the following format: host-prefix.workday.com.

For example, if you log in to Workday using the URL:

https://impl.workday.com/wday/authgwy/tenant_name/login.htmld?
redirect=n

For this example, enter impl.workday.com in the URL Prefix field.



Note:

You must provide the URL prefix to use the Authorization Code Credentials security policy. The **URL Prefix** field is not marked with an asterisk (*). This incorrectly implies that this field is not mandatory. This field is mandatory if you want to use the Authorization Code Credentials security policy.

Configure Connection Security

Configure security for your Workday Adapter connection.

- 1. Go to the **Security** section.
 - 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.

Note:

- You must provide the client ID and client secret values to use the Authorization Code Credentials security policy. These fields are not marked with an asterisk (*). This incorrectly implies that these field are not mandatory. These fields are mandatory if you want to use the Authorization Code Credentials security policy.
- When you provide user credentials on the Connection pages, the sole purpose of the user authentication credentials is to retrieve web service metadata. Your user authentication credentials are not used for any other purpose.
- 3. In the **Client Id** field, enter the client ID that you obtained while registering an API client. See Prerequisites to Use the Authorization Code Credentials Security Policy.
- In the Client Secret field, enter the client secret key that you obtained while registering an API client. See Prerequisites to Use the Authorization Code Credentials Security Policy.

Test the Connection

Test your connection to ensure that it's configured successfully.

1. In the page title bar, click **Test**. What happens next depends on whether your connection uses a Web Services Description Language (WSDL) file.

If Your Connection	Then
Doesn't use a WSDL	The test starts automatically and validates the inputs you provided for the connection.



If Your Connection	Then	
Uses a WSDL	A dialog prompts you 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. 	

- 2. Wait for a message about the results of the connection test.
 - If the test was successful, then the connection is configured properly.
 - If the test failed, then edit the configuration details you entered. Check for typos, verify URLs and credentials, and download the diagnostic logs for additional details. Continue to test until the connection is successful.
- 3. When complete, click Save.

Upload an SSL Certificate

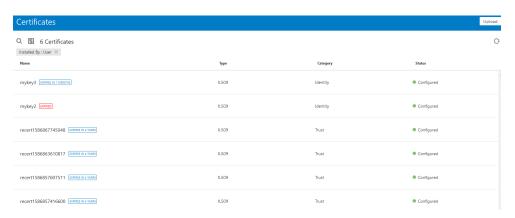
Certificates are used to validate outbound SSL connections. If you make an SSL connection in which the root certificate does not exist in Oracle Integration, an exception is thrown. In that case, you must upload the appropriate certificate. A certificate enables Oracle Integration to connect with external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

To upload an SSL certificate:

In the left navigation pane, click Home > Settings > Certificates.
 All certificates currently uploaded to the trust store are displayed in the Certificates dialog. The



link enables you to filter by name, certificate expiration date, status, type, category, and installation method (user-installed or system-installed). Certificates installed by the system cannot be deleted.



Click Upload at the top of the page. The Upload Certificate dialog box is displayed.



- 3. Enter an alias name and optional description.
- 4. In the **Type** field, select the certificate type. Each certificate type enables Oracle Integration to connect with external services.
 - X.509 (SSL transport)
 - SAML (Authentication & Authorization)
 - PGP (Encryption & Decryption)

X.509 (SSL transport)

- 1. Select a certificate category.
 - a. Trust: Use this option to upload a trust certificate.
 - i. Click Browse, then select the trust file (for example, .cer or .crt) to upload.
 - b. Identity: Use this option to upload a certificate for two-way SSL communication.
 - i. Click **Browse**, then select the keystore file (.jks) to upload.
 - ii. Enter the comma-separated list of passwords corresponding to key aliases.



When an identity certificate file (JKS) contains more than one private key, all the private keys must have the same password. If the private keys are protected with different passwords, the private keys cannot be extracted from the keystore.

- iii. Enter the password of the keystore being imported.
- c. Click Upload.

SAML (Authentication & Authorization)

- Note that Message Protection is automatically selected as the only available certificate
 category and cannot be deselected. Use this option to upload a keystore certificate with
 SAML token support. Create, read, update, and delete (CRUD) operations are supported
 with this type of certificate.
- 2. Click Browse, then select the certificate file (.cer or .crt) to upload.
- 3. Click Upload.

PGP (Encryption & Decryption)

- Select a certificate category. Pretty Good Privacy (PGP) provides cryptographic privacy and authentication for communication. PGP is used for signing, encrypting, and decrypting files. You can select the private key to use for encryption or decryption when configuring the stage file action.
 - a. **Private**: Uses a private key of the target location to decrypt the file.
 - i. Click **Browse**, then select the PGP file to upload.
 - ii. Enter the PGP private key password.
 - **b. Public**: Uses a public key of the target location to encrypt the file.
 - Click Browse, then select the PGP file to upload.



- ii. In the ASCII-Armor Encryption Format field, select Yes or No. Yes shows the format of the encrypted message in ASCII armor. ASCII armor is a binary-to-textual encoding converter. ASCII armor formats encrypted messaging in ASCII. This enables messages to be sent in a standard messaging format. This selection impacts the visibility of message content. No causes the message to be sent in binary format.
- iii. From the **Cipher Algorithm** list, select the algorithm to use. Symmetrickey algorithms for cryptography use the same cryptographic keys for both encryption of plain text and decryption of cipher text.
- c. Click Upload.



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.

Element	Description
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 hyphens in the name. You can't include the following characters:
	No blank spaces (for example, My Inbound Connection)
	 No special characters (for example, #;83& or righ(t) now4) except underscores and hyphens
	No 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.

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

Service Selection Page

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

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

Operations Page

Specify the business operation to execute in the Workday application.

Element	Description
Click to Show Actual Operation Names	Select to view the actual names of the operations.
Use Common Header	Select to receive descriptor values in the response.
Operations	Select the operation to perform. The operations that are displayed are based on the Workday action you selected on the Actions page and the Workday module you selected on the Service Selection page.



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:

Element	Description
Workday Report as a Service (RaaS)	Select the specific reports.

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

Element	Description
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.

Element	Description
Summary	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 .
	To cancel your configuration details, click Cancel.



4

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
- Retrieve Custom Reports in CSV Format Using RaaS

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:

- 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. Or the Workday Actions page, select Query Information, then click Next.
- 4. On the Service Selection page, select **Human Capital Management** from the **Select a Workday Product** list.
- 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.
- On the Workday Actions page, select Extract Bulk Data From Workday, then click Next.
- 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

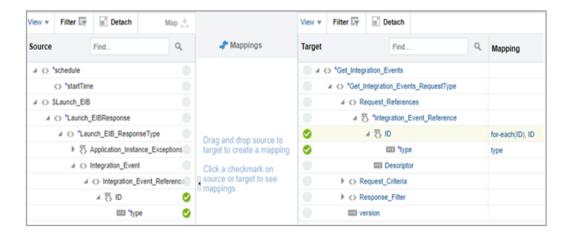
This section provides an overview of creating an integration that uses the **Enterprise Interface Builder (EIB-based Reports)** Workday API and its operations to retrieve reports in CSV format, monitor execution, and download the CSV file.

- 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.

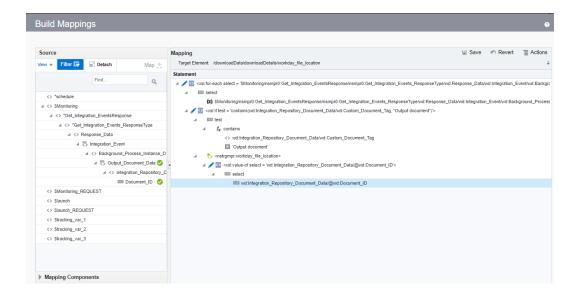
Specify the following details in the Adapter Endpoint Configuration Wizard.

- 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.





- 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).

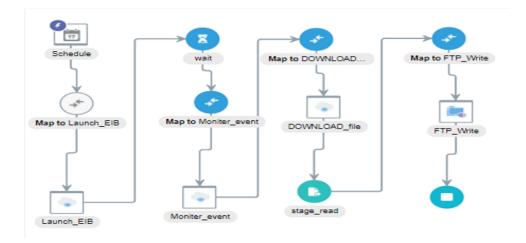
The wait action ensures that the process waits for the specified time before monitoring the progress of reports (EIB).



- 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:





Retrieve Custom Reports in CSV Format Using RaaS

This section provides an overview of creating an integration that uses the **Reports as a Service (Custom Reports) Workday** API and its operations to retrieve custom reports in CSV format.

To perform this operation, you create Workday Adapter and FTP Adapter connections in Oracle Integration.

- 1. Create an app-driven orchestrated integration.
- 2. Drag a REST Adapter connection into the integration as a trigger connection.
- 3. Configure the REST endpoint.
- 4. Drag a Workday Adapter connection into the integration canvas.
- 5. Configure the Workday Adapter as follows:
 - a. On the Basic Info page, provide a name.
 - b. On the Action page, select Extract Bulk Data from Workday.
 - c. On the RaaS Services page, select Reports as a Service (Custom Reports) as the type of Workday report, and select a report.
 - d. On the Summary page, review your selections.
- Perform the required mapping.
- 7. Drag a stage file action into the integration canvas below the Workday Adapter. The stage file action reads the CSV format data downloaded to Oracle Integration.
 - a. On the Basic Info page, provide a name.
 - b. On the Configure Operations page, select **Read Entire File from the Choose Stage File Operation** field.
 - c. Specify the XPath for the file name in the **Specify the File Name** field.
 - d. Specify the directory name in the Specify the Directory to read from field.
 - e. On the Scheme Options page, select Yes in the Do you want to specify the structure for the contents of the file? field and select Sample delimited document (e.g. CSV) from the Which one of the following choices would be used to describe the structure of the file contents? list.
 - f. On the Format Definition page, click **Choose File** and upload the CSV file to create a schema in the **Select a New File** field.
 - **g.** Enter the record name, enter the recordset name, select the field delimiter (for example, **Comma**), and perform other required details.
 - h. Review your selections on the Summary page.

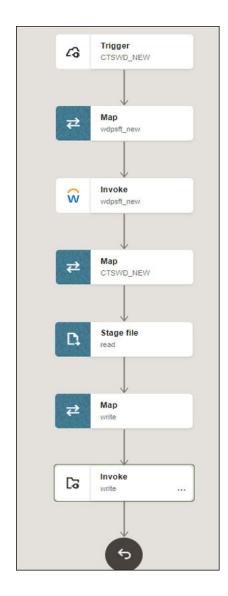


To process the data, users should add the required headers in the CSV file.

- 8. Drag an FTP Adapter below the stage file action to write the file to a target FTP server.
- 9. Specify the following details in the Adapter Endpoint Configuration Wizard.



- a. On the Basic Info page, provide a name.
- b. On the Operations page, select Write File from the Select Operation list.
- c. Select Binary from the Select a Transfer Mode list.
- d. Specify the output directory (target FTP server location) and file name pattern.
- e. On the Scheme page, select Yes in the Do you want to specify the structure for the contents of the file? field and select Sample delimited document (e.g. CSV) from the Which one of the following choices would be used to describe the structure of the file contents? list.
- f. On the File Contents-Definition page, click Choose File and upload the schema source file in the Select a New File field.
- g. Enter the record name, enter the recordset name, select the field delimiter, and perform other required details.
- h. Review your selections on the Summary page.
- **10.** 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 Generation 2* and the Oracle Integration Troubleshooting page on the Oracle Help Center.

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.

