

Oracle® Cloud

Using the Oracle Logistics Adapter

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Preface

Using the Oracle Logistics Adapter describes how to configure the Oracle Logistics Adapter as a connection in an integration in Oracle Integration Cloud Service.

Topics:

- [Audience](#)
- [Related Resources](#)
- [Conventions](#)

Audience

Using the Oracle Logistics Adapter is intended for developers who want to use the Oracle Logistics Adapter in integrations in Oracle Integration Cloud Service.

Related Resources

For more information, see these Oracle resources:

- Oracle Cloud
<http://cloud.oracle.com>
- *Using Oracle Integration Cloud Service*
- *Using the Oracle Mapper*

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.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
<code>monospace</code>	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Getting Started with the Oracle Logistics Adapter

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

Topics

- [About Oracle Logistics Adapter Use Cases](#)
- [What Application Version Does the Oracle Logistics Adapter Support?](#)
- [About Oracle Integration Cloud Service](#)
- [About Oracle Integration Cloud Service Connections](#)
- [About Oracle Integration Cloud Service Integrations](#)
- [About Oracle Logistics Adapter Use Cases](#)
- [Typical Workflow for Creating and Including an Adapter Connection in an Integration](#)

About the Oracle Logistics Adapter

The Oracle Logistics Adapter enables you to create an Oracle Integration Cloud Service connection to a specific Oracle Logistics Cloud (Transportation Management and Global Trade Management) instance. The connection can then be used to create an integration that calls Oracle Logistics Cloud web services and exposes a web service that Oracle Logistics Cloud can call.

The Oracle Logistics Adapter provides the following benefits:

- Configure the Oracle Logistics Adapter as a trigger (inbound) connection or as an invoke (outbound) connection in an integration.
- Use existing web service capabilities.
- Select specific interfaces for your integration such as Release and ActualShipment.

The Oracle Logistics Adapter is one of many predefined adapters included with Oracle Integration Cloud Service. For information about Oracle Integration Cloud Service, connections, and integrations, see the following sections:

- [About Oracle Integration Cloud Service](#)
- [About Oracle Integration Cloud Service Connections](#)
- [About Oracle Integration Cloud Service Integrations](#)

What Application Version Does the Oracle Logistics Adapter Support?

The Oracle Logistics Adapter is compatible with Oracle Transportation Management versions 6.4.2 and later using the TransmissionService.

Note: Use of the on-premises agent (that is, the connectivity agent) with Oracle Logistics Adapter is not currently supported. A network firewall configuration may be necessary to interact with an on-premises instance.

About Oracle Integration Cloud Service

Oracle Integration Cloud Service is a complete, secure, but lightweight integration solution that enables you to connect your applications in the cloud. It simplifies connectivity between your applications and connects both your applications that live in the cloud and your applications that still live on premises. Oracle Integration Cloud Service provides secure, enterprise-grade connectivity regardless of the applications you are connecting or where they reside.

Oracle Integration Cloud Service provides native connectivity to Oracle Software as a Service (SaaS) applications, such as Oracle Sales Cloud, Oracle RightNow Cloud, and so on. Oracle Integration Cloud Service *adapters* simplify connectivity by handling the underlying complexities of connecting to applications using industry-wide best practices. You only need to create a *connection* that provides minimal connectivity information for each system. Oracle Integration Cloud Service *lookups* map the different codes or terms used by the applications you are integrating to describe similar items (such as country or gender codes). Finally, the visual data mapper enables you to quickly create direct mappings between the trigger and invoke data structures. From the mapper, you can also access lookup tables and use standard XPath functions to map data between your applications.

Once you integrate your applications and activate the integrations to the runtime environment, the dashboard displays information about the running integrations so you can monitor the status and processing statistics for each integration. The dashboard measures and tracks the performance of your transactions by capturing and reporting key information, such as throughput, the number of messages processed successfully, and the number of messages that failed processing. You can also manage business identifiers that track fields in messages and manage errors by integrations, connections, or specific integration instances.

About Oracle Integration Cloud Service Connections

Connections define information about the instances of each configuration you are integrating. Oracle Integration Cloud Service includes a set of predefined *adapters*, which are the types of applications on which you can base your connections, such as Oracle Sales Cloud, Oracle Eloqua Cloud, Oracle RightNow Cloud, and others. A connection is based on an adapter. A connection includes the additional information required by the adapter to communicate with a specific instance of an application (this can be referred to as metadata or as connection details). For example, to create a connection to a specific RightNow Cloud application instance, you must select the Oracle RightNow adapter and then specify the WSDL URL, security policy, and security credentials to connect to it.



[Video](#)

About Oracle Integration Cloud Service Integrations

Integrations are the main ingredient of Oracle Integration Cloud Service. An integration includes at the least a trigger (source) connection (for requests sent to Oracle Integration Cloud Service) and invoke (target) connection (for requests sent from Oracle Integration Cloud Service to the target) and the field mapping between those two connections.

When you create your integrations, you build on the [connections](#) you already created by defining how to process the data for the trigger (source) and invoke (target) connections. This can include defining the type of operations to perform on the data, the business objects and fields against which to perform those operations, required schemas, and so on. To make this easier, the most complex configuration tasks are handled by Oracle Integration Cloud Service. Once your trigger (source) and invoke (target) connections are configured, the mappers between the two are enabled so you can define how the information is transferred between the trigger (source) and invoke (target) data structures for both the request and response messages.



About Oracle Logistics Adapter Use Cases

The Oracle Logistics Adapter can be used in a variety of integration scenarios. The Oracle Logistics Adapter uses Oracle Logistics Cloud's existing TransmissionService for sending inbound transmissions (as an invoke) and receiving outbound transmissions from Oracle Logistics Cloud (as a trigger).

The "Sample Integration between Logistics Cloud and Supply Chain Cloud" chapter of *Integrating with Integration Cloud Services* in the Transportation and Global Trade Management document [library](#) provides a description of how these products can be integrated using Oracle Integration Cloud Service. The corresponding integrations may be downloaded from My Oracle Support note 2209248.1 and imported into Oracle Integration Cloud Service.

One part of this sample involves sending a fulfillment line from Order Management Cloud into Oracle Logistics Cloud as an order release, and sending a response back to Order Management Cloud.

1. Create a connection from the Oracle Logistics Adapter using the release element.
2. Create a connection from the Oracle ERP Cloud Adapter as a trigger connection using the fulfillment line.
3. Create another connection from the Oracle ERP Cloud Adapter as an invoke connection using the fulfillment response.
4. To create an order release from a fulfillment line.
 - a. Create a new integration for creating an order release.
 - b. Drag the trigger connection created from the Oracle ERP Cloud Adapter to the trigger section.
 - c. Drag the connection created from the Oracle Logistics Adapter to the invoke section.
 - d. Configure mapping between the fulfillment line and release schemas.

- e. Trigger the integration from Order Management Cloud to create the order release in Oracle Logistics Cloud.
5. To send a response from Oracle Logistics Cloud to Order Management Cloud:
 - a. Create a new integration for sending a fulfillment response.
 - b. Drag the connection created from the Oracle Logistics Adapter to the trigger section.
 - c. Drag the invoke connection created from the Oracle ERP Cloud Adapter to the invoke section.
 - d. Configure mapping between the release and fulfillment response schemas.
 - e. Trigger the new integration from Oracle Logistics Cloud to post an order release with updated planning information, which is transformed into the fulfillment response.

Typical Workflow for Creating and Including an Adapter Connection in an Integration

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

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. Oracle Logistics Adapter connections must use the TransmissionService for version 6.4.2 or greater.	Creating an Oracle Logistics Adapter Connection
2	Create the integration. When you do this, you add trigger and invoke connections to the integration.	Creating an Integration and Adding the Oracle Logistics Adapter Connection to an Integration

Step	Description	More Information
3	<p>Map data between the trigger connection data structure and the invoke connection data structure.</p> <p>Note: Data in Oracle Logistics Cloud generally resides in a domain. This can be a single domain for an entire implementation or multiple domains segregated by business unit, customer, or other criteria. Oracle Logistics Cloud domains may not correlate to the upstream system, so the domain must be specified in the mapper in the inbound direction to Oracle Logistics Cloud. For example, element ORDER123 in Supply Chain Cloud can map into Oracle Logistics Cloud as element MY_DOMAIN.ORDER123.</p>	Mapping Integration Cloud Service Data of <i>Using Oracle Integration Cloud Service</i>
4	(Optional) Create lookups that map the different values used by those applications to identify the same type of object (such as units of measure or country codes).	Creating Lookups of <i>Using Oracle Integration Cloud Service</i>
5	Activate the integration.	Managing Integrations of <i>Using Oracle Integration Cloud Service</i>
6	Monitor the integration on the dashboard.	Monitoring Integration Cloud Services of <i>Using Oracle Integration Cloud Service</i>
7	Track payload fields in messages during runtime.	Assigning Business Identifiers for Tracking Fields in Messages and Managing Business Identifiers for Tracking Fields in Messages of <i>Using Oracle Integration Cloud Service</i>
8	Manage errors at the integration level, connection level, or specific integration instance level.	Managing Errors of <i>Using Oracle Integration Cloud Service</i>

Creating an Oracle Logistics 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](#)
- [Uploading an SSL Certificate](#)
- [Creating a Connection](#)
- [Editing a Connection](#)
- [Cloning a Connection](#)
- [Deleting a Connection](#)

Prerequisites for Creating a Connection

You must satisfy the following prerequisites to create a connection with the Oracle Logistics Adapter:

- Ensure your Oracle Logistics Cloud instance is version 6.4.2 or greater.
- Create a user account in Oracle Logistics Cloud with the INTEGRATION role. You specify this user account when creating an Oracle Logistics Adapter connection on the Connections page of Oracle Integration Cloud Service. See [Oracle Logistics Cloud](#).
- Obtain the WSDL to use from [Oracle Logistics Cloud](#) by going to **Business Process Automation > Integration > Integration Manager > Retrieve WSDLs**. View the content for the Transmission Service, and use the `soap:address` location with `?wsdl` appended.

You specify this WSDL when creating an Oracle Logistics Adapter connection on the Connections page of Oracle Integration Cloud Service.

Note: The Oracle Logistics Adapter does not currently support uploading a WSDL file. Until then, network configuration changes may be necessary.

- Send data from Oracle Logistics Cloud to another system through Oracle Integration Cloud Service. This action can be performed by calling the Oracle Integration Cloud Service web service for the necessary integration. An external

system should be created in Oracle Logistics Cloud that points to the Oracle Integration Cloud Service endpoint, which can be obtained from an activated integration in Oracle Integration Cloud Service. To improve performance, use Out XML profiles to limit the amount of data sent to Oracle Integration Cloud Service. The Oracle Logistics Cloud FA domain includes two sample external system records (**OM ICS SERVICE** and **WSH ICS SERVICE**) as examples.

- Configure web service security and authentication. See the Security Guide located in the [Transportation and Global Trade Management Documentation Web Library](#) and the "Integrating with Other Systems" chapter of the *Oracle Transportation Management Cloud Service Getting Started Guide* in the [Oracle Logistics Cloud Library](#) for details.

Uploading 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 Cloud Service, an exception is thrown. In that case, you must upload the appropriate certificate. A certificate enables Oracle Integration Cloud Service to connect with external services. If the external endpoint requires a specific certificate, request the certificate and then upload it into Oracle Integration Cloud Service.

To upload a certificate:

1. From the Oracle Integration Cloud Service home page, click the **Administration** tab in the upper right corner.

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 Cloud Service. 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.

2. Click **Upload** at the top of the page.
3. In the Upload Certificate dialog box, enter a unique identifier for the certificate.

This is a name you can use to identify the certificate.

4. Click **Browse** to locate the certificate file (.cer).
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.

Creating 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 Integration Cloud Service toolbar, click **Designer**.
2. On the Designer Portal, click **Connections**.
3. Click **New Connection**.

The Create Connection — Select Adapter dialog is displayed.

4. 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 New Connection — Information dialog is displayed.

5. 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, OSC Inbound).
 - 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 RightNow Cloud Adapter as only an invoke, but drag the adapter to the trigger section).
 - Enter an optional description of the connection.

New Connection - Information

Enter information that describes the connection. Use a meaningful name and description to help others find your connection when they create their own integrations. The Identifier must be unique and can be set only when the connection is created.

* Connection Name: Order Status

* Identifier: ORDER_STATUS

Connection Role: Invoke

Description: Enter a brief description...

Create Cancel

6. 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.

Adding 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**.

The Connection Properties dialog is displayed.

2. In the **WSDL URL** field, specify the URL to use in this integration. To obtain the WSDL, see [Prerequisites for Creating a Connection](#).
3. Click **OK**.
4. Configure connection security.

Configuring Connection Security

Configure security for your Oracle Logistics Adapter connection by selecting the security policy and security token.

1. Click **Configure Credentials**.
2. Enter your login credentials. These are the credentials for the INTEGRATION user you previously created in Oracle Logistics Cloud. For more information, see [Prerequisites for Creating a Connection](#).
 - a. Select the security policy. Only the Username Password Token policy is supported. It cannot be deselected.
 - b. Enter the username and password.
 - c. Reenter the password a second time.
3. Click **OK**.

Testing the Connection

Test your connection to ensure that it is successfully configured.

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

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

The connection test was successful!

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

3. When complete, click **Save**.

Editing a Connection

You can edit connection settings after creating a new connection.

1. In the Oracle Integration Cloud Service toolbar, click **Designer**.
2. On the Designer Portal, click **Connections**.
3. On the Connections page, search for the connection name.
4. Select **Edit** from the connection **Actions** menu or click the connection name.



The Connection page is displayed.

5. To edit the notification email contact, change the email address in the **Email Address** field.
6. To edit the connection properties, click **Configure Connectivity**. Note that some connections do not include this button. If your connector does not include a **Configure Connectivity** button, then click the **Configure Credentials** button.

Cloning a Connection

You can clone a copy of an existing connection. It is a quick way to create a new connection.

1. In the Oracle Integration Cloud Service toolbar, click **Designer**.
2. On the Designer Portal, click **Connections**.
3. On the Connections page, search for the connection name.
4. Select **Clone** from the connection **Actions** menu.



The Clone Connection dialog is displayed.

5. Enter the connection information.
6. Click **Clone**.
7. Click **Edit** to configure the credentials of your cloned connection. Cloning a connection does not copy the credentials.

See [Editing a Connection](#) for instructions.

Deleting a Connection

You can delete a connection from the connection menu.

1. In the Oracle Integration Cloud Service toolbar, click **Designer**.
2. On the Designer Portal, click **Connections**.
3. On the Connections page, search for the connection name.
4. Click **Delete** from the connection **Actions** menu.



The Delete Connection dialog is displayed if the connection is not used in an integration.

5. Click **Yes** to confirm deletion.

Creating an Integration

Integrations use the adapter connections you created to your applications, and define how information is shared between those applications. You can create, import, modify, or delete integrations; create integrations to publish or subscribe to messages; add and remove request and response enrichment triggers; and create routing paths for different invoke endpoints in integrations. Click the following topics for more information.

Topic

- [Creating Integrations \(in *Using Oracle Integration Cloud Service*\)](#)

Adding the Oracle Logistics Adapter Connection to an Integration

When you drag the Oracle Logistics Adapter into the trigger or invoke area of an integration, the Adapter Endpoint Configuration Wizard is invoked. This wizard guides you through configuration of Oracle Logistics Adapter endpoint properties.

The following sections describe the wizard pages that guide you through configuration of the Oracle Logistics Adapter as a trigger or invoke in an integration.

Topics

- [Configuring Basic Information Properties](#)
- [Configuring Oracle Logistics Cloud Trigger Request Properties](#)
- [Configuring Oracle Logistics Invoke Operation Properties](#)
- [Reviewing Configuration Values on the Summary Page](#)

For more information about the Oracle Logistics Adapter, see [About the Oracle Logistics Adapter](#).

Configuring Basic Information Properties

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

Topics

- [What You Can Do from the Basic Info Page](#)
- [What You See on the Basic Info Page](#)

What You Can Do from the Basic Info Page

You can specify the following values on the Basic Info page. The Basic Info page is the initial wizard page that is displayed whenever you drag an adapter to the section of the integration canvas supported by your adapter.

- Specify a meaningful name.
- Specify a description of the responsibilities.

What You See on the Basic Info Page

The following table describes the key information on the Basic Info page.

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 dashes in the name. You cannot include the following: <ul style="list-style-type: none">• 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.

Configuring Oracle Logistics Cloud Trigger Request Properties

Enter the Oracle Logistics Cloud trigger request values for your integration. The values you specify start the integration.

Topics

- [What You Can Do from the Oracle Logistics Cloud Trigger Request Page](#)
- [What You See on the Oracle Logistics Adapter Trigger Request Page](#)

What You Can Do from the Oracle Logistics Cloud Trigger Request Page

You can configure the Oracle Logistics Adapter to receive a business object as a request from the Oracle Logistics application to map to the target system. This selection invokes the integration.

What You See on the Oracle Logistics Adapter Trigger Request Page

The following table describes the key information on the Oracle Logistics Adapter trigger Request page.

Element	Description
Filter by object name	Enter the initial letters to filter the display of business objects.
Select a Business Object	Select a single or multiple business objects from the Oracle Logistics Cloud application to receive as a request that starts the integration.

Configuring Oracle Logistics Invoke Operation Properties

Enter the Oracle Logistics invoke operation values for your integration.

Topics

- [What You Can Do from the Oracle Logistics Invoke Operations Page](#)
- [What You See on the Oracle Logistics Invoke Operations Page](#)

What You Can Do from the Oracle Logistics Invoke Operations Page

You can configure the following values for Oracle Logistics:

- Select the cloud operation based on the contents of the WSDL file.
- Select the business objects.

What You See on the Oracle Logistics Invoke Operations Page

The following table describes the key information on the Oracle Logistics invoke Operations page.

Element	Description
Cloud Operation	Select the cloud operation to perform. The operations that are displayed are based on the contents of the WSDL file.
Filter by object name	Enter the initial letters of an object name to display a range of objects.
Select Business Objects	Select a single or multiple business objects from the Oracle Logistics application. The selected operation acts upon these business objects. Be careful when mapping to a Transmission with multiple business object interfaces. You must create a GLogXMLElement for each interface. See Multiple Element Types are Selected for a Transmission for details.
Your Selected Business Objects	Displays the selected business objects.

Reviewing Configuration Values on the Summary Page

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

Topics

- [What You Can Do from the Summary Page](#)
- [What You See on the Summary Page](#)

What You Can Do from the Summary Page

You can review configuration details from the Summary page. The Summary page is the final wizard page for each adapter after you have completed your configuration.

- View the configuration details you defined for the adapter. For example, if you have defined an inbound trigger (source) adapter with a request business object and immediate response business object, specific details about this configuration are displayed on the Summary page.
- Click **Done** if you want to save your configuration details.
- Click a specific tab in the left panel or click **Back** to access a specific page to update your configuration definitions.
- Click **Cancel** to cancel your configuration details.

What You See on the Summary Page

The following table describes the key information on the Summary page.

Element	Description
Summary	<p>Displays a summary of the configuration values you defined on previous pages of the wizard.</p> <p>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.</p> <p>To return to a previous page to update any values, click the appropriate tab in the left panel or click Back.</p>

Creating Mappings and Lookups in Integrations

You must map data between trigger connections and invoke connections in integrations. You can also optionally create lookups in integrations.

Topics

- Mapping Integration Cloud Service Data (in *Using Oracle Integration Cloud Service*)
- Creating Lookups (in *Using Oracle Integration Cloud Service*)

Administering Integrations

Oracle Integration Cloud Service provides you with the information and tools required to activate, monitor, and manage your integrations in the runtime environment.

Topic

- Administering Integration Cloud Service (in *Using Oracle Integration Cloud Service*)

Troubleshooting the Oracle Logistics Adapter

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

Topics

- [Multiple Element Types are Selected for a Transmission](#)

Multiple Element Types are Selected for a Transmission

When multiple element types are selected for a transmission, per the schema, a GLogXMLElement can only contain a single GLogXMLTransaction. However, Oracle Integration Cloud Service lists multiple GLogXMLTransactions under GLogXMLElement in the mapper. In this case, right-click the icon to the left of GLogXMLElement and select Repeat Element. Then map to only one of the GLogXMLTransaction elements within each GLogXMLElement.

