Oracle® Cloud

Using the Oracle Commerce Cloud Adapter with Oracle Integration Generation 2





Oracle Cloud Using the Oracle Commerce Cloud 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. | |



1

Understand the Oracle Commerce Cloud Adapter

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

Topics:

- Oracle Commerce Cloud Adapter Capabilities
- What Application Version Is Supported?
- Oracle Commerce Cloud Adapter Restrictions
- Oracle Commerce Cloud Adapter Use Cases
- Workflow to Create and Add an Oracle Commerce Cloud 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.

Oracle Commerce Cloud Adapter Capabilities

The Oracle Commerce Cloud Adapter enables you to create an integration with an Oracle Commerce Cloud application.

Oracle Commerce Cloud's modern Software as a Service (SaaS) infrastructure emphasizes simplicity, enabling online businesses to launch feature-rich, responsive storefronts across desktop and mobile devices without sacrificing features or brand control. No longer limited by cookie-cutter site options, marketers and merchants receive a fully responsive, configurable storefront out-of-the-box with pre-integrated core commerce features.

The Oracle Commerce Cloud Adapter meets the integration needs of any system with Oracle Commerce Cloud. The Oracle Commerce Cloud Adapter simplifies integration with Oracle Commerce Cloud. For example, an order management system can integrate with Oracle Commerce Cloud by creating an Oracle Integration integration and mapping the attributes between the two systems.

The Oracle Commerce Cloud Adapter provides the following benefits:

- Provides information about the Oracle Commerce Cloud business objects and operations when designing the integration
- Acts as a single interface to call Oracle Commerce Cloud services
- Integrates Oracle Commerce Cloud with other cloud business systems



- Provides a view of Oracle Commerce Cloud data and operations tailored to the needs of integration designers
- Provides standard error handling capabilities
- Provides a standard adapter life cycle, controlled runtime environment, and monitoring capabilities
- Handles OAuth security for connecting to Oracle Commerce Cloud from Oracle Integration

The Oracle Commerce Cloud Adapter is one of many predefined adapters included with Oracle Integration . You can configure the Oracle Commerce Cloud Adapter as a 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.

Oracle Commerce Cloud Adapter Restrictions

Note the following Oracle Commerce Cloud Adapter restrictions.

The Oracle Commerce Cloud Adapter does not support the store URL. However, you can use the REST Adapter to connect to the store server using the same credentials.



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

Oracle Commerce Cloud Adapter Use Cases

Common use cases for the Oracle Commerce Cloud Adapter are as follows:

- Send and receive customer profiles from external systems.
- Send and receive products and prices from external systems.
- Send order-related information to order management.
- Send and receive promotion information.
- Import and export bulk data from Oracle Commerce Cloud.

Workflow to Create and Add an Oracle Commerce Cloud Adapter Connection to an Integration

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



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

| 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 an Oracle Commerce Cloud Adapter Connection |
| 2 | Create the integration. When you do this, you add trigger and invoke connections to the integration. | Create Integrations and Add the Oracle Commerce Cloud Adapter Connection to an Integration |
| 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 Using Integrations in Oracle Integration Generation 2 |
| 5 | Activate the integration. A URL is generated by Oracle Integration when the integration is activated. This URL must be updated in the Web API section of Oracle Commerce Cloud for web hooks. Remove the trailing metadata from the path parameter leaving the /at the end of the URL. | Manage Integrations in Using Integrations in Oracle Integration Generation 2 |
| 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 Oracle</i> Integration Generation 2 |
| 8 | Manage errors at the integration level, connection level, or specific integration instance level. | Manage Errors in Using Integrations in Oracle Integration Generation 2 |



2

Create an Oracle Commerce Cloud 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
- · Refresh Integration Metadata

Prerequisites for Creating a Connection

You must obtain the Oracle Commerce Cloud Admin URL and the security token to configure the Oracle Commerce Cloud Adapter. You specify these values when creating an Oracle Commerce Cloud Adapter connection in Oracle Integration.

When you purchase the store front from Oracle Commerce Cloud, you are provided with the Admin URL. To obtain the security token, you go to the Admin portal of Oracle Commerce Cloud.

To obtain the security token:

From the Admin portal of Oracle Commerce Cloud, go to **Settings > WebAPIs > Registered Applications**. When the new application is registered, you receive the application key (security token).

You cannot use the store URL. See Oracle Commerce Cloud Adapter Restrictions.

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:

- 1. In the left navigation pane, click **Home > Integrations > Connections**.
- 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.)
- 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.

- 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.



Note:

Oracle Commerce Cloud exposes Admin endpoints and agent endpoints to Oracle Integration. The Admin endpoints can be used as the trigger and invoke role and the agent can be used only as the invoke role.

- d. Enter an optional description of the connection.
- 5. 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.

2. In the **Connection base URL** field, enter the URL to connect to your application endpoint and process requests. To obtain the URL, see Prerequisites for Creating a Connection.

Configure Connection Security

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

- 1. Go to the Security section.
- 2. In the **Security Policy** field, note that the OAuth security policy is displayed by default, and cannot be deselected. The supported policy is two-legged OAuth 2.0.
- 3. In the **Security Token** field, enter the security token you received after completing the steps in Prerequisites for Creating a Connection.

Test the Connection

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

 In the page title bar, click Test. What happens next depends on whether your adapter connection uses a Web Services Description Language (WSDL) file. Only some adapter connections use WSDLs.

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



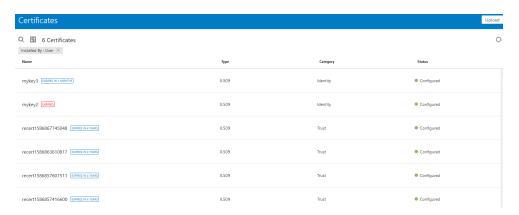
to connect with external services. If the external endpoint requires a specific certificate, request the certificate and then upload it into Oracle Integration.

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)

- Select a certificate category.
 - a. Trust: Use this option to upload a trust certificate.
 - 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.



Note:

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. Symmetric-key algorithms for cryptography use the same cryptographic keys for both encryption of plain text and decryption of cipher text.
 - c. Click Upload.

Refresh Integration Metadata

You can manually refresh the currently-cached metadata available to adapters that have implemented metadata caching. Metadata changes typically relate to customizations of integrations, such as adding custom objects and attributes to integrations. There may also be cases in which integrations have been patched, which results in additional custom objects and attributes being added. This option is similar to clearing the cache in your browser.



Without a manual refresh, a staleness check is only performed when you drag a connection into an integration. This is typically sufficient, but in some cases you may know that a refresh is required. For these cases, the **Refresh Metadata** menu option is provided.

To refresh integration metadata:



The **Refresh Metadata** menu option is only available with adapters that have implemented metadata caching.

- 1. In the left navigation pane, click **Home > Integrations > Connections**.
- 2. Go to the row of the connection to refresh.
- 3. Select Refresh Metadata from the menu.

A message is displayed indicating that the refresh was successful.

Metadata refresh for connection "connection_type" has been initiated successfully.



3

Add the Oracle Commerce Cloud Adapter Connection to an Integration

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

These topics describe the wizard pages that guide you through configuration of the Oracle Commerce Cloud Adapter as a trigger or invoke in an integration.

Topics:

- · Basic Info Page
- Trigger Request Page
- Invoke Operation 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. | |

Trigger Request Page

The Request page appears in the Adapter Endpoint Configuration Wizard when an Oracle Commerce Cloud Adapter connection is used as a trigger. The Request page lists business objects available in Oracle Commerce Cloud web hooks.

You can select the business object to send as a request to Oracle Integration and then from Oracle Integration to the invoke endpoint. The endpoint is always configured as a POST

action. Oracle Commerce Cloud Adapter can map errors thrown by some other systems back to Oracle Commerce Cloud.



Element

Description

Oracle Commerce Cloud Business Objects

Select the business object that you want to send to the target system. These are the available business objects:

- Account Assets: Returns the services associated with a set of accounts or a single service when the record ID is present.
- ASA Additional Properties: Retrieves additional properties for display in the Assisted Selling Application user interface.
- Asset Actions: Returns action details associated with particular assets.
- Cancel Order: The order that is cancelled in Oracle Commerce Cloud can be sent to external systems.
- Calculate Shipping: An Oracle Commerce Cloud web hook that returns shipping cost information from a third party source.
- Catalog and Price Group Assignment: Assign catalogs and price groups based on rules set in an external system.
- Contact Accounts: Returns billing, customer, and service account information associated with the current profile.
- Custom Currency: Used for custom currency payments.
- Data Export: The data export details in Oracle Commerce Cloud.
- Data Import: The data import details in Oracle Commerce Cloud.
- External Pricing: An Oracle Commerce Cloud web hook that validates pricing with pricing from a third party source.
- External Promotions: External promotion details can be requested by Oracle Commerce Cloud.
- External Tax Calculation: This event is triggered at the checkout page to get the tax for the cart from any external service.
- Idle Cart: The details of the abandoned cart in Oracle Commerce Cloud. This includes the cart information and the profile details for logged in users. When the cart is left idle the corresponding web hook in Oracle Commerce Cloud is triggered.
- Non PCI Return Request Validation:
 Functional web hook that can call an order management system (OMS) or similar system and determine whether the order and/or items in the order are eligible for returns.
- Order: The details of the order created in Oracle Commerce Cloud. The order includes item and shipment details. When an order is submitted in Oracle Commerce Cloud, the corresponding web hook in Oracle Commerce Cloud is triggered.



| Element | Description | | |
|---------|---|--|--|
| | Order Approvals: Checks if the order requires approval. | | |
| | Organization: The details of the B2B organization can be fetched using this webhook. | | |
| | Organization Request: The details of the organization request created by Oracle Commerce Cloud. | | |
| | Profile: The details of a customer profile created in Oracle Commerce Cloud. This includes details such as the email, first name, and last name of the customer. When a new user is registered or an existing user is updated in Oracle Commerce Cloud, the corresponding web hook in Oracle Commerce Cloud is triggered. | | |
| | Publish Event: The publish event details in Oracle Commerce Cloud. | | |
| | Request Quote: The details of the quote requested by Oracle Commerce Cloud to external CPQ systems. | | |
| | Redact Order: Notifies an external system that an order has been redacted. | | |
| | Return: The details of the return request created against an order in Oracle Commerce Cloud. The details that are included are original order details, return submitted date and the commerce details. When a return is created, the corresponding web hook in Oracle Commerce Cloud is triggered. | | |
| | Shopper Profile Delete: A registered shopper has been removed. | | |
| | Shopper Profile Update: The details of a customer profile being updated in Oracle Commerce Cloud. | | |
| | Update Quote: The updated quote is sent by Oracle Commerce Cloud to external CPQ systems. | | |

Invoke Operation Page

The Operations page appears in the Adapter Endpoint Configuration Wizard when an Oracle Commerce Cloud Adapter connection is used as an invoke. The Operations page lists the business objects and their operations available in Oracle Commerce Cloud. Oracle Commerce Cloud Adapter can map the error thrown by Oracle Commerce Cloud to an external system.

You can configure the operation of a business object to execute in the Oracle Commerce Cloud application.



Element

Description

Select a Business Object

Select the business object in Oracle Commerce Cloud on which you want to operate when running an integration that uses this endpoint. When configured as an invoke, the Oracle Commerce Cloud Adapter supports operations on the following business objects.

- Audiences: Endpoints for managing audiences used for personalization.
- Catalogs: Endpoints to access catalog details of Oracle Commerce Cloud.
- Claimables: Endpoints related to the creation and update of promotion claimables.
- Collections: The collection of all the products available in Oracle Commerce Cloud.
- Coupon Batches: Endpoints related to the management of coupon batches for promotions.
- **Currency**: The details of the endpoints for operations on currencies in Oracle Commerce Cloud.
- Currency Exchange Rates: The details of the endpoints for operations on currency exchange rates in Oracle Commerce Cloud.
- Export Process: Bulk endpoints for exporting data out of Oracle Commerce Cloud.
- Files: File endpoint to upload data into Oracle Commerce Cloud.
- Import Process: Bulk endpoints for importing data into Oracle Commerce Cloud
- Inventory: The details of the inventory against a product available in Oracle Commerce Cloud.
- Orders: The details of all the orders created in Oracle Commerce Cloud. The orders include information such as the item details, shipment details, and so on.
- Organization Request: Endpoints for operations for account-based commerce in Oracle Commerce Cloud.
- Organizations: The details of the organization attributes. This includes information such as the name, address, associated contract, and contract terms and conditions.
- Products: The details of a product available in Oracle Commerce Cloud.
- Price List Group: The details of the currency used in the price list groups of Oracle Commerce Cloud.
- Profiles: The details of all the customer profiles created in Oracle Commerce Cloud.
- Promotions: Endpoints related to the creation and update of promotions.
- Publishing Change Lists: Endpoints for publishing change lists.
- Publishing Changes: Endpoint for publishing changes.
- Return Order: The agent return endpoint of Oracle Commerce Cloud used to update the status of a return in Oracle Commerce Cloud.
- Sites: The details of the site endpoints in Oracle Commerce Cloud.



| Element | Description | |
|---------------------|---|--|
| | Skus: The details of a SKU of a product available in Oracle Commerce Cloud. | |
| Select an Operation | Select the operation that you want Oracle Integration to invoke when running an integration that uses this endpoint. The list shows the operations available on the selected business object. | |

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. |

