Oracle® Cloud

Using the Magento Commerce Cloud Adapter with Oracle Integration Generation 2





Oracle Cloud Using the Magento 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.



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Understand the Magento Commerce Cloud Adapter

Review the following conceptual topics to learn about the Magento Commerce Cloud 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:

- Magento Commerce Cloud Adapter Capabilities
- What Application Version Is Supported?
- Workflow to Create and Add a Magento Commerce Cloud Adapter Connection to an Integration

Magento Commerce Cloud Adapter Capabilities

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

The Magento Commerce Cloud Adapter provides the following benefits:

- Provides invoke (target) connection support for performing the following types of actions against the selected module and operation:
 - Create (create records in Magento)
 - Update (update records in Magento)
 - Query or search (get or search records from Magento)
 - Delete (delete records from Magento)
- Supports custom modules.
- Supports custom attributes for the Customer and Customer Address modules.
- Supports making calls directly to a specific store instead of all stores. To do this, you
 must pass the store ID in the mapper.



To get a store ID, log in to your Magento admin panel, navigate to **STORES** > **All Stores**, and click the store name in the **Store View** column.

Supports Magento APIs protected using OAuth 1.0 client credentials authentication.

The Magento Commerce Cloud Adapter is one of many predefined adapters included with Oracle Integration. You can configure the Magento Commerce Cloud Adapter as an invoke connection in an integration in Oracle Integration.

Magento Commerce Cloud Adapter Restrictions

Note the following restrictions before configuring the Magento Commerce Cloud Adapter.

The search operation (filter parameters) has the following restriction:

You can perform logical ORs only within the context of a single filter_groups. A logical OR cannot be performed across different filter_groups, such as (A AND B) OR (Y AND Z).



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

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.

Workflow to Create and Add a Magento 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	Access Oracle Integration.	Go to https://instance_URL/ic/home
2	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 Magento Commerce Cloud Adapter Connection
3	Create the integration. When you do this, you add the invoke (target) connection to the integration.	Understand Integration Creation and Best Practices in <i>Using Integrations in Oracle Integration Generation 2</i> and Add the Magento Commerce Cloud Adapter Connection to an Integration
4	Map data between the trigger connection data structure and the invoke connection data structure.	Map Data in Using Integrations in Oracle Integration Generation 2



Step	Description	More Information
5	(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</i> Integrations in Oracle Integration Generation 2
6	Activate the integration.	Activate an Integration in Using Integrations in Oracle Integration Generation 2
7	Monitor the integration on the dashboard.	Monitor Integrations in Using Integrations in Oracle Integration Generation 2
8	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 Using Integrations in Oracle Integration Generation 2
9	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 Magento Commerce Cloud Adapter Connection

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

Topics:

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

Prerequisites for Creating a Connection

You must satisfy the following prerequisites to create a connection with the Magento Commerce Cloud Adapter:

- Purchase a Subscription to Magento
- Create an Integration and Obtain the Integration Tokens

Purchase a Subscription to Magento

Purchase a subscription to Magento. When you subscribe, you receive a Magento instance URL and Magento admin credentials.

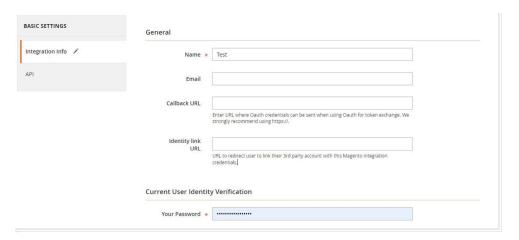
Create an Integration and Obtain the Integration Tokens

To generate a consumer key, consumer secret, access token, and access token secret, you must create and activate an integration using the Magento Admin panel.

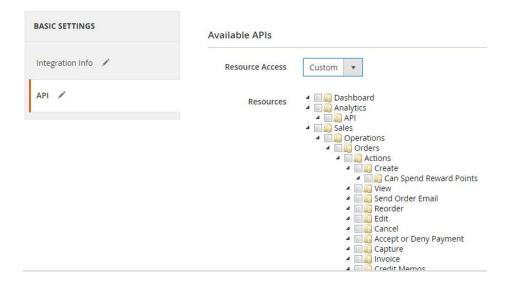
- 1. Log in to your Magento admin panel.
- Click SYSTEM and select Integrations.



- 3. Click Add New Integration.
- **4.** Under **Integration Info**, enter a name for your integration in the **Name** field and enter your admin password in the **Your Password** field.



- 5. Click the API tab. The list of the available APIs is displayed.
- 6. In the **Resource Access** field, select one of the following:
 - All: to grant the user access to all resources.
 - Custom: to grant the user access to the selected resource.



- 7. Click **Save**. The integration is saved and displayed on the Integration page.
- 8. Click **Activate** for the respective integration.





- Click Allow. A dialog box is displayed. Magento generates the integration tokens.
- **10.** Copy the consumer key, consumer secret, access token, and access token secret values for your integration.

You'll need to enter these values on the Connections page when you configure security for your Magento Commerce Cloud Adapter connection in Oracle Integration. See Configure Connection Security.

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.
- 2. 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.)
- 3. 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.
- 2. In the **Hostname** field, enter the hostname. You receive the hostname after you purchase a Magento subscription.

Configure Connection Security

Configure security for your Magento Commerce Cloud Adapter connection.

Before you can create a connection, you must obtain a consumer key, consumer secret, access token, and access token secret to specify on the Connections page. See Create an Integration and Obtain the Integration Tokens.

- 1. Go to the Security section.
- 2. In the **Consumer Key** field, enter the consumer key that you obtained after performing the prerequisite steps.
- In the Consumer Secret field, enter the consumer secret that you obtained after performing the prerequisite steps.
- In the Access Token field, enter the access token that you obtained after performing the prerequisite steps.
- 5. In the **Access Token Secret** field, enter the access token secret that you obtained after performing the prerequisites steps.
- 6. Click OK.

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

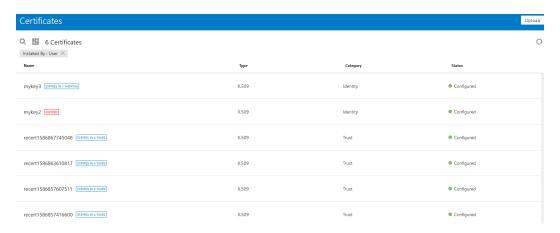
Certificates are used to validate outbound SSL connections. If you make an SSL connection in which the root certificate does not exist in Oracle Integration, an exception is thrown. In that case, you must upload the appropriate certificate. A certificate enables Oracle Integration to connect with external 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.
 - Identity: Use this option to upload a certificate for two-way SSL communication.
 - i. Click **Browse**, then select the keystore file (.jks) to upload.
 - 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.
 - i. 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.



Add the Magento Commerce Cloud Adapter Connection to an Integration

When you drag the Magento Commerce Cloud Adapter into the invoke area of an integration, the Adapter Endpoint Configuration Wizard is invoked. This wizard guides you through configuration of the Magento Commerce Cloud Adapter endpoint properties.

The following sections describe the wizard pages that guide you through configuration of the Magento Commerce Cloud Adapter as an invoke in an integration. The Magento Commerce Cloud Adapter cannot be used as a trigger in an integration.

Topics:

- · Basic Info Page
- Invoke Action Page
- Invoke Operations 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.	

Invoke Action Page

Select the action to perform in Magento.

Element	De	escription
Which action do you want to perform on Magento?	•	Query or Search: Retrieves or searches for information from the Magento application corresponding to the selected module and operation.
	•	Create, Update Or Delete Information: Creates a new record, updates an existing record, or deletes a record in/from the Magento application (for example, Customer Account Management V1 Create Account Post, Sales Order Repository V1 Save Put, Catalog Product Repository V1 Delete By Id Delete, and so on).

Invoke Operations Page

Select the module and operation to perform in the Magento application. The fields that appear are based on the selection you made on the Action page.

- Create, Update, or Delete Information
- Query or Search



The Magento Commerce Cloud Adapter does not currently support the Inventory Export Stock Api Export Stock Salable Qty V1 Execute Get and Inventory In Store Pickup Api Get Pickup Locations V1 Execute Get operations.

Create, Update, or Delete Information

Element	Description	
Select Operation to perform	 Create: Creates records based on a selected operation. Update: Updates records based on a selected operation. Delete: Deletes records based on a selected operation. 	
Select Module	Select a module, such as Catalog Product Repository V1, Customer Account Management V1, Quote Cart Item Repository V1, Sales Invoice Order V1, Sales Refund Order V1, and so on.	
Filter by module name	Type the initial letters of the module name to filter the display of names in the list.	
Select Operation	Select an operation name, such as Catalog Base Price Storage V1 Update Post, Customer Group Repository V1 Save Put, and Sales Rule Coupon Repository V1 Delete By Id Delete.	
Filter by operation name	Type the initial letters of the operation name to filter the display of names in the list.	
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Query or Search



Element	Description
Select Operation to perform	·
Select Module	Select a module, such as Customer Account Management V1, Inventory Api Stock Repository V1, and so on.
Filter by module name	Type the initial letters of the module name to filter the display of names in the list.
Select Operation	Select an operation name, such as Catalog Category Repository V1 Get Get, Customer Address Repository V1 Get By Id Get, Sales Order Item Repository V1 Get Get, Catalog Category List V1 Get List Get, Customer Customer Repository V1 Get List Get, and so on.
Filter by operation name	Type the initial letters of the operation name to filter the display of names in the list.
Page Size (Only shown if you selected the Get one or more records from the selected module based on filter parameters option.)	Enter a value between 20 and 50. The default value is 20.
Filter Parameters (Only shown if you selected the Get one or more records from the selected module based on filter parameters option.)	Click to open a subpage called Filter Parameters, which captures the filter conditions applied to the endpoint URL.

Invoke Filter Parameters Page

Select the filter parameters to use in the Magento application.

Note:

- If an operation contains extra query/ template parameters apart from field name, condition type, and value, the extra query/ template parameters are displayed on the child page along with other filter parameters.
- If a user does not select any filter parameters, the result is displayed based on the page size only, if there are no mandatory query/template parameters.
- If a store ID is available in both the template parameter and query parameter, the store ID available in the query parameter takes precedence.
- The Magento Commerce Cloud Adapter does not support the V1/search operation and sorting.



Element	Description
Field	Select the application field names to use in the condition. Note: The Field dropdown list also contains custom attributes (if present) for a module and top-level attributes. This is because the search is supported only on top-level attributes.
Operator	Select the operator to use for the search.
Value	Specify the value for which to search.
Conjunction	 Select the logical operator for grouping together the smaller condition elements. And: Both search conditions must be met for the document to be returned. Or: Either condition must be met for the document to be returned.
×	Click to remove the selected condition.
Test Get Operation	Click to validate the query/ template parameters against the Magento application. The query response is displayed for a successful query and the response fields are displayed accordingly in the response schema. Note:
	 The Test Get operation fetches a maximum of three results. The store ID cannot be a parameter in the Test Get operation unless it is already a query parameter.

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.

