

Oracle® Cloud

Using the MailChimp Adapter

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This guide describes how to configure and add the MailChimp Adapter to an integration in Oracle Integration Cloud Service.

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Preface

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

Topics

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

Audience

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

Related Resources

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 MailChimp Adapter

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

Topics

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

MailChimp Adapter Capabilities

Use the MailChimp Adapter to connect to MailChimp REST APIs from Oracle Integration Cloud Service.

MailChimp is an email marketing software (EMS) program that provides options for designing, sending, and saving email templates. You can create newsletters and share them on social network sites such as Twitter or Facebook. You can build a list of contacts with whom you want to market products, and save the list for later use. You can also create custom templates for your products so that you do not have to rewrite emails.

The MailChimp Adapter is a predefined adapter included with Oracle Integration Cloud Service. Use the MailChimp Adapter to connect to the MailChimp application in Oracle Integration Cloud Service. You can configure the MailChimp Adapter as a connection in an integration in Oracle Integration Cloud Service. For information about Oracle Integration Cloud Service, connections, and integrations, see:

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

What Application Version Does the MailChimp Adapter Support?

The MailChimp Adapter is compatible with version 3.0 of the MailChimp REST API.

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.



[Video](#)

About MailChimp Adapter Use Cases

The MailChimp Adapter can be used in the following scenarios.

- You can integrate the MailChimp Adapter with information technology service applications to generate mailing and contact lists.
- You can integrate the MailChimp Adapter with marketing applications to generate marketing emails.
- You can configure the MailChimp Adapter to return client information and statistics including the average number of clicks made in a campaign and the number of campaign emails opened by clients.

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

Follow the workflow to create an adapter connection and include the connection in an integration in Oracle Integration Cloud Service.

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

Step	Description	More Information
1	Create the MailChimp account	Prerequisites for Creating a Connection
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.	Creating a MailChimp Adapter Connection
3	Create the integration. When you do this, you add trigger and invoke connections to the integration.	Creating an Integration and Adding the MailChimp Adapter Connection to an Integration
4	Map data between the trigger connection data structure and the invoke connection data structure.	Mapping Data of Using Oracle Integration Cloud Service
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).	Creating Lookups of Using Oracle Integration Cloud Service

Step	Description	More Information
6	Activate the integration.	Managing Integrations of <i>Using Oracle Integration Cloud Service</i>
7	Monitor the integration on the dashboard.	Monitoring Integrations of <i>Using Oracle Integration Cloud Service</i>
8	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>
9	Manage errors at the integration level, connection level, or specific integration instance level.	Managing Errors of <i>Using Oracle Integration Cloud Service</i>

Creating a MailChimp Adapter Connection

To use an adapter you must define connections to the specific cloud applications that you want to integrate. These 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

Before you create the MailChimp Adapter connection, you need to create a MailChimp account and add the application. You can use an existing MailChimp account, but you need to add the application to create a connection. Use this procedure to create a new MailChimp account and add the application.

Note:

To create a connection, a trusted MailChimp public certificate is required. Typically, the certificate is included with Oracle Integration Cloud Service. If you cannot locate the MailChimp public certificate, download it from <https://login.mailchimp.com/oauth2/metadata>. Rename the public certificate file extension to .crt. To upload the certificate, see [Uploading an SSL Certificate](#).

1. Open a web browser and browse to the MailChimp web site (<http://mailchimp.com>).
2. Click **Sign up Free**.
3. Enter your email address, user name, and password.
4. Click **Create My Account**.
5. Activate your account following the instructions in the MailChimp confirmation email.
6. Complete the Let's Get Started page.

7. Click **Save and Get Started**.
8. Click your user name in the upper right corner and select **Account**.
9. Click **Extras** and then select **API keys**.
10. Click **Register and Manage Your Apps**.
11. Click **Register An App**.
12. Complete the **Register an App** fields. Enter `https://server:port/icsapis/agent/oauth/callback` in the **Redirect URI** field.
13. Click **Create**.
14. Copy or record the values in the **Client ID** and **Client secret** fields. These values are required to create the connection in Oracle Integration Cloud Service.

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 an SSL 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, select the certificate type. Each certificate type enables Oracle Integration Cloud Service to connect with external services.
 - **Trust Certificate:** Use this option to upload a trust certificate.
 - a. Enter a unique alias for the certificate.
 - b. Click **Browse**, then select the trust file (for example, `.cer` or `.crt`) to upload.

- **Message Protection Certificate:** Use this option to upload a keystore certificate with SAML token support. Create, read, update, and delete (CRUD) operations are supported on this type of certificate.
 - a. Enter a unique alias for the certificate.
 - b. Click **Browse**, then select the certificate file (.cer or .crt) to upload.
 - **Identity Certificate:** Use this option to upload a certificate for two-way SSL communication.
 - a. Click **Browse**, then select the keystore file (.jks) to upload.
 - b. Enter the password of the keystore being imported.
 - c. Enter the comma-separated list of aliases from the keystore being imported.
 - d. Enter the comma-separated list of passwords corresponding to key aliases.
 - e. If you want to display the passwords in clear text, select **Show Key Password(s)**. This enables you to ensure that you are correctly entering a list of keystore passwords.
4. Click **Upload**.
 5. 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 Oracle 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 Security

Enter connection information so your application can process requests.

1. Create a connection. See [Creating a Connection](#).
2. Select the connection in Oracle Integration Cloud Service.
3. Click **Configure Credentials**.

The Credentials dialog is displayed. The **Security Policy** field displays **MailChimpSecurityPolicy** by default. This field cannot be changed.

4. Enter the client ID and client secret values you recorded when you created your MailChimp account.

See [Prerequisites for Creating a Connection](#).

5. Click **Provide Consent**.
6. If required, enter your MailChimp user name and password.
7. Click **Log In**.
8. Return to Oracle Integration Cloud Service to test and save the security credentials.

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.

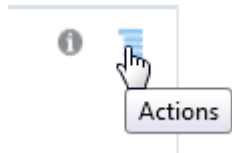
5. Make any necessary edits.

Cloning a Connection

You can clone a copy of an existing connection, even if the connection is locked. This provides 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.

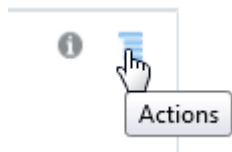
5. Enter the connection information.
6. Click **Clone**.
7. Click **Edit** to configure the credentials of your cloned connection. Cloning a connection does not copy the credentials.

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 topic for more information:

Topic

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

Adding the MailChimp Adapter Connection to an Integration

When you drag the MailChimp Adapter into the invoke area of an integration, the Adapter Endpoint Configuration Wizard appears. Follow the wizard to configure the MailChimp Adapter endpoint properties.

These topics describe the Adapter Endpoint Configuration Wizard pages that you use to configure the MailChimp Adapter as an invoke in an integration. The MailChimp Adapter cannot be used as a trigger in an integration.

Topics

- [Configuring Basic Information Properties](#)
- [Configuring MailChimp Adapter Invoke Operations Properties](#)
- [Reviewing Configuration Values on the Summary Page](#)

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: - 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 MailChimp Adapter Invoke Operations Properties

Enter the MailChimp Adapter invoke operation values for your integration.

Topics

- [What You See from the MailChimp Adapter Operations Page](#)
- [What You Can Do on the MailChimp Adapter Operations Page](#)

What You Can Do on the MailChimp Adapter Operations Page

The following table describes the available operations on the MailChimp Adapter page.

Operation	Description	Introduced in Release
Get member info	Returns a list of members that are of a particular status and potentially matching a segment.	16.1.3
Get interest categories of a list	Returns all interest categories for a defined mailing list.	16.1.3
Get all lists	Returns all of the lists defined for a user account.	16.1.3
Get all segments in a list	Returns all segments defined for a subscriber list.	16.1.3
Get top email clients	Returns a list of the most active subscribers and ranks the clients by popularity.	16.1.3

Operation	Description	Introduced in Release
Get all campaign folders	Returns a list of all campaign folders for a user account.	16.1.3
Create Campaign Folder	Creates a campaign folder.	16.1.3
Get all campaigns	Returns a the list of all existing campaigns and their details.	16.1.3
Send a campaign	Sends a campaign email to the specified email addresses.	16.1.3
Create a new campaign	Creates a new campaign.	16.1.3
Create a new interest category	Creates a new interest category for a subscription list.	16.1.3
Get a specific campaign folder	Returns a specific campaign folder.	16.1.3
Delete a specific campaign folder	Deletes a specific campaign folder.	16.1.3
Create a new segment	Creates a new segment.	16.1.3

What You See from the MailChimp Adapter Operations Page

The following table describes the key information on the MailChimp Adapter Operations page.

Element	Description
Select Operation	Select the MailChimp API operation to perform.

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	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.

Creating Mappings and Lookups in Integrations

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

Topics

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

Troubleshooting the MailChimp Adapter

Review the following topics to resolve MailChimp Adapter issues.

Topics

- [MailChimp Website Authentication Error](#)
- [SSL Error When Providing Consent](#)
- [Specifying the Port Number with the Authorized Redirect URL](#)

MailChimp Website Authentication Error

This issue occurs when you click **Provide Consent** in the Credentials dialog and the redirect URL cannot be authenticated.

Update the MailChimp redirect URL

Solution: Use this procedure to update the MailChimp redirect URL.

1. Open a web browser and browse to the MailChimp web site (<http://mailchimp.com>).
2. Click **Log In**.
3. Enter your user name and password.
4. Click **Log In**.
5. Click your user name in the upper right corner and select **Account**.
6. Click **Extras** and then select **API keys**.
7. Click **Register and Manage Your Apps**.
8. Click **Edit** on the application you want to update.
9. Update the **Redirect URI** field.
10. Click **Update**.
11. Click your user name in the upper right corner and select **Log Out**.

See [Configuring Connection Security](#).

SSL Error When Providing Consent

This issue occurs when you click **Provide Consent** in the Credentials dialog and the public certificate is missing or cannot be located.

Upload the MailChimp public certificate to Oracle Integration Cloud Service

Solution: Upload the MailChimp public certificate to Oracle Integration Cloud Service. To upload the certificate, see [Uploading an SSL Certificate](#).

To specify security credentials, see [Configuring Connection Security](#).

Specifying the Port Number with the Authorized Redirect URL

When configuring the authorized redirect URL, ensure that you specify the port number. For example:

```
https://host:443/icsapis/agent/oauth/callback
```

Not specifying the port number in the URL results in an error when configuring the adapter on the Connections page:

```
"Authorization Failed: String index out of range: -12"
```