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Preface

This guide describes how to configure the MailChimp Adapter as a connection in an integration in Oracle Integration.

Note:
The information in this guide applies to all of your Oracle Integration instances. It doesn't matter which edition you're using, what features you have, or who manages your cloud environment. You'll find what you need here, including notes about any differences between the various flavors of Oracle Integration when necessary.

Topics
• Audience
• Documentation Accessibility
• Related Resources
• Conventions

Audience

This guide is intended for developers who want to use the MailChimp 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.

Related Resources

See these Oracle resources:
- Oracle Cloud
  [http://cloud.oracle.com](http://cloud.oracle.com)
- *Using Integrations in Oracle Integration*
- *Using the Oracle Mapper with Oracle Integration*

### Conventions

The following text conventions are used in this document:

<table>
<thead>
<tr>
<th>Convention</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>boldface</strong></td>
<td>Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.</td>
</tr>
<tr>
<td><em>italic</em></td>
<td>Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.</td>
</tr>
<tr>
<td>monospace</td>
<td>Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.</td>
</tr>
</tbody>
</table>
Understand 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 integrations. A typical workflow of adapter and integration tasks is also provided.

Topics:

- MailChimp Adapter Capabilities
- What Application Version Is Supported?
- About MailChimp Adapter Use Cases
- Workflow to Create and Add a MailChimp Adapter Connection to an Integration

MailChimp Adapter Capabilities

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

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. Use the MailChimp Adapter to connect to the MailChimp application in Oracle Integration. You can configure the MailChimp 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 Oracle Integration Adapters Certification Matrix under section Oracle Integration Adapters Certification Matrix at the top of the page:

Oracle Integration Adapters Certification Matrix

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.

Workflow to Create and Add a MailChimp Adapter Connection to an Integration

Follow the workflow to create an adapter connection 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 workflow step.

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
<th>More Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Create the MailChimp account</td>
<td>Prerequisites for Creating a Connection</td>
</tr>
<tr>
<td>2</td>
<td>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.</td>
<td>Create a MailChimp Adapter Connection</td>
</tr>
<tr>
<td>3</td>
<td>Create the integration. When you do this, you add trigger and invoke connections to the integration.</td>
<td>Create Integrations and Add the MailChimp Adapter Connection to an Integration</td>
</tr>
<tr>
<td>4</td>
<td>Map data between the trigger connection data structure and the invoke connection data structure.</td>
<td>Map Data of Using Integrations in Oracle Integration</td>
</tr>
<tr>
<td>5</td>
<td>(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).</td>
<td>Manage Lookups of Using Integrations in Oracle Integration</td>
</tr>
<tr>
<td>6</td>
<td>Activate the integration.</td>
<td>Manage Integrations of Using Integrations in Oracle Integration</td>
</tr>
<tr>
<td>7</td>
<td>Monitor the integration on the dashboard.</td>
<td>Monitor Integrations of Using Integrations in Oracle Integration</td>
</tr>
<tr>
<td>8</td>
<td>Track payload fields in messages during runtime.</td>
<td>Assign Business Identifiers for Tracking Fields in Messages and Manage Business Identifiers for Tracking Fields in Messages of Using Integrations in Oracle Integration</td>
</tr>
<tr>
<td>9</td>
<td>Manage errors at the integration level, connection level, or specific integration instance level.</td>
<td>Manage Errors of Using Integrations in Oracle Integration</td>
</tr>
</tbody>
</table>
Create a MailChimp Adapter Connection

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

Topics:

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

Prerequisites for Creating a Connection

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. 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 Upload 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.

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.

Create 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 navigation pane, click Integrations, then click Connections.
2. 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.)

The Create Connection — Select Adapter dialog is displayed.

3. 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 Create New Connection dialog is displayed.

4. 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, Sales Opportunity).
   - 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 Service Cloud (RightNow) Adapter as only an invoke, but drag the adapter to the trigger section).
   - Enter an optional description of the connection.
5. Click **Create**.

Your connection is created and you are now ready to configure connection details, such as email contact, connection properties, security policies, connection login credentials, and (for certain connections) agent group.

### Add 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**.

### Configure Connection Security

Enter connection information so your application can process requests.

1. Select the connection in Oracle Integration.
2. Click **Configure Credentials**.

The Credentials dialog is displayed. The **Security Policy** field displays `MailChimpSecurityPolicy` by default. This field cannot be changed.
3. Enter the client ID and client secret values you recorded when you created your MailChimp account.

See [Prerequisites for Creating a Connection](#).
4. Click **Provide Consent**.
5. If required, enter your MailChimp user name and password.
6. Click **Log In**.
7. Return to Oracle Integration to test and save the security credentials.

Test the Connection

Test your connection to ensure that it is successfully configured.

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

2. If your adapter connection uses a WSDL, you are prompted 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.

   If successful, the following message is displayed and the progress indicator shows 100%:
   
   Connection *connection_name* was tested successfully.

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

4. When complete, click **Save**, then click **Close**.

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:

1. In the navigation pane, click **Integrations**, then click the < arrow next to **Designer**.

2. Click **Settings > Certificates**.

   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. 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.

3. Click **Upload** at the top of the page.

4. In the Upload Certificate dialog box, select the certificate type. Each certificate type enables Oracle Integration 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.

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.
Add 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. This wizard guides you through configuration of MailChimp Adapter endpoint properties.

These topics describe the wizard pages that guide you through configuration of the MailChimp Adapter as an invoke in an integration. The MailChimp Adapter cannot be used as a trigger in an integration.

Topics:
- Basic Info 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.

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>What do you want to call your endpoint?</td>
<td>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:</td>
</tr>
<tr>
<td></td>
<td>• Blank spaces (for example, My Inbound Connection)</td>
</tr>
<tr>
<td></td>
<td>• Special characters (for example, #;83\ or righ(t)now4)</td>
</tr>
<tr>
<td></td>
<td>• Multibyte characters</td>
</tr>
<tr>
<td>What does this endpoint do?</td>
<td>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.</td>
</tr>
</tbody>
</table>

Invoke Operations Page

Enter the MailChimp Adapter invoke operation values for your integration.
The following table describes the available MailChimp API operations on the MailChimp Adapter page. Select the operation to perform.

<table>
<thead>
<tr>
<th>Operation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Get member info</td>
<td>Returns a list of members that are of a particular status and potentially matching a segment.</td>
</tr>
<tr>
<td>Get interest categories of a list</td>
<td>Returns all interest categories for a defined mailing list.</td>
</tr>
<tr>
<td>Get all lists</td>
<td>Returns all of the lists defined for a user account.</td>
</tr>
<tr>
<td>Get all segments in a list</td>
<td>Returns all segments defined for a subscriber list.</td>
</tr>
<tr>
<td>Get top email clients</td>
<td>Returns a list of the most active subscribers and ranks the clients by popularity.</td>
</tr>
<tr>
<td>Get all campaign folders</td>
<td>Returns a list of all campaign folders for a user account.</td>
</tr>
<tr>
<td>Create Campaign Folder</td>
<td>Creates a campaign folder.</td>
</tr>
<tr>
<td>Get all campaigns</td>
<td>Returns a the list of all existing campaigns and their details.</td>
</tr>
<tr>
<td>Send a campaign</td>
<td>Sends a campaign email to the specified email addresses.</td>
</tr>
<tr>
<td>Create a new campaign</td>
<td>Creates a new campaign.</td>
</tr>
<tr>
<td>Create a new interest category</td>
<td>Creates a new interest category for a subscription list.</td>
</tr>
<tr>
<td>Get a specific campaign folder</td>
<td>Returns a specific campaign folder.</td>
</tr>
<tr>
<td>Delete a specific campaign folder</td>
<td>Deletes a specific campaign folder.</td>
</tr>
<tr>
<td>Create a new segment</td>
<td>Creates a new segment.</td>
</tr>
</tbody>
</table>

**Summary Page**

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

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summary</td>
<td>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 <strong>Back</strong>. Click <strong>Cancel</strong> to cancel your configuration details.</td>
</tr>
</tbody>
</table>
4

Troubleshoot the MailChimp Adapter

Review these topics to learn about troubleshooting issues with the MailChimp Adapter.

Topics:

- MailChimp Website Authentication Error
- SSL Error When Providing Consent
- Specify the Port Number with the Authorized Redirect URL

Additional integration troubleshooting information is provided. See Troubleshoot Oracle Integration in Using Integrations in Oracle Integration.

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 Configure 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**

**Solution**: Upload the MailChimp public certificate to Oracle Integration. To upload the certificate, see **Upload an SSL Certificate**.

To specify security credentials, see **Configure Connection Security**.

Specify 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”