

Oracle® Cloud

Using the Gmail Adapter

Release 16.3

E69237-04

September 2016

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

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

This documentation is in preproduction status and is intended for demonstration and preliminary use only. It may not be specific to the hardware on which you are using the software. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to this documentation and will not be responsible for any loss, costs, or damages incurred due to the use of this documentation.

The information contained in this document is for informational sharing purposes only and should be considered in your capacity as a customer advisory board member or pursuant to your beta trial agreement only. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described in this document remains at the sole discretion of Oracle.

This document in any form, software or printed matter, contains proprietary information that is the exclusive property of Oracle. Your access to and use of this confidential material is subject to the terms and conditions of your Oracle Master Agreement, Oracle License and Services Agreement, Oracle PartnerNetwork Agreement, Oracle distribution agreement, or other license agreement which has been executed by you and Oracle and with which you agree to comply. This document and information contained herein may not be disclosed, copied, reproduced, or distributed to anyone outside Oracle without prior written consent of Oracle. This document is not part of your license agreement nor can it be incorporated into any contractual agreement with Oracle or its subsidiaries or affiliates.

Contents

Preface	v
Audience	v
Related Resources	v
Conventions	v
 1 Getting Started with the Gmail Adapter	
About the Gmail Adapter	1-1
What Application Version Does the Gmail Adapter Support?	1-1
About Oracle Integration Cloud Service	1-1
About Oracle Integration Cloud Service Connections	1-2
About Oracle Integration Cloud Service Integrations	1-2
Typical Workflow for Creating and Including an Adapter Connection in an Integration	1-3
 2 Creating a Gmail Adapter Connection	
Prerequisites for Creating a Connection	2-1
Uploading an SSL Certificate	2-2
Creating a Connection	2-3
Adding a Contact Email	2-4
Configuring Connection Security	2-4
Testing the Connection	2-4
Editing a Connection	2-5
Cloning a Connection	2-5
Deleting a Connection	2-6
 3 Creating an Integration	
 4 Adding the Gmail Adapter Connection to an Integration	
Configuring Basic Information Properties	4-1
What You Can Do from the Basic Info Page	4-1
What You See on the Basic Info Page	4-1
Configuring Gmail Adapter Invoke Operation Selection Properties	4-3
What You Can Do from the Gmail Adapter Operation Selection Page	4-3

What You See on the Gmail Adapter Operation Selection Page	4-4
Reviewing Configuration Values on the Summary Page	4-4
What You Can Do from the Summary Page	4-4
What You See on the Summary Page	4-5

5 Creating Mappings and Lookups in Integrations

6 Administering Integrations

Preface

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

Topics:

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

Audience

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

Related Resources

For more information, see these Oracle resources:

- Oracle Cloud
<http://cloud.oracle.com>
- *Using Oracle Integration Cloud Service*
- *Using the Oracle Mapper*
- *Getting Started with Oracle Cloud*
- *Managing and Monitoring Oracle Cloud*
- Oracle Public Cloud Machine documentation in the Oracle Help Center:
<http://docs.oracle.com>

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.

Convention	Meaning
<i>italic</i>	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.

Getting Started with the Gmail Adapter

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

Topics

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

About the Gmail Adapter

The Gmail Adapter enables you to create an integration with a Gmail application.

Gmail is a free email service provided by Google. Users can access Gmail as secure web mail and also through the Post Office Protocol version 3 (POP3) or Internet Message Access Protocol version 4 (IMAP4) protocols.

The Gmail Adapter is one of many predefined adapters included with Oracle Integration Cloud Service. You can configure the Gmail Adapter as a connection in an integration in Oracle Integration Cloud Service. For information about Oracle Integration Cloud Service, connections, and integrations, see the following sections:

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

What Application Version Does the Gmail Adapter Support?

The Gmail Adapter is compatible with version 1.0 of the Gmail 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 predefined 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](#)

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

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

Step	Description	More Information
1	Create the adapter connections for the applications you want to integrate. The connections can be reused in multiple integrations and are typically created by the administrator.	Creating a Gmail Adapter Connection
2	Create the integration. When you do this, you add trigger and invoke connections to the integration.	Creating an Integration and Adding the Gmail Adapter Connection to an Integration
3	Map data between the trigger connection data structure and the invoke connection data structure.	Mapping Integration Cloud Service Data of Using Oracle Integration Cloud Service
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).	Creating Lookups of Using Oracle Integration Cloud Service
5	Activate the integration.	Managing Integrations of Using Oracle Integration Cloud Service
6	Monitor the integration on the dashboard.	Monitoring Integration Cloud Services of Using Oracle Integration Cloud Service
7	Track payload fields in messages during runtime.	Assigning Business Identifiers for Tracking Fields in Messages and Managing Business Identifiers for Tracking Fields in Messages of Using Oracle Integration Cloud Service
8	Manage errors at the integration level, connection level, or specific integration instance level.	Managing Errors of Using Oracle Integration Cloud Service

Creating a Gmail Adapter Connection

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

Topics

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

Prerequisites for Creating a Connection

To use the Gmail Adapter, you must first have access to the Gmail API for your integration. To access the Gmail API, you must create a Google project.

To create a Google project:

1. Go to the Gmail Developer page at <https://console.developers.google.com>.
2. Expand the **Select a project** list in the top right corner.
3. Select an existing project to use or create a new project.
4. Click **Use Google APIs**.
5. Search for and select the **Gmail API**.
6. Click **Enable API**.
7. On the left side, click the **Credentials** tab.
8. From the **New credentials** list, select **OAuth client ID**.

To create an OAuth client ID, you must first set a product name on the consent screen.

- a. Click **Configure consent screen**.
- b. In the **Product name shown to users** field, enter a product name, then click **Save**.

9. Under **Application Type**, select **Web Application**.

The page is refreshed to display additional fields for updating.

10. In the **Name** field, specify a name for the OAuth2.0 client ID credential.

11. In the **Authorized Redirect URI** field, enter the following URL:

```
https://{ICS_HOST}:{ICS_SSL_PORT}/icsapis/agent/oauth/callback
```

12. Click **Create**. This provides you with the client ID and client secret.

13. Copy and paste this information to a safe location because it is required for creating a Gmail Adapter connection, then click **OK**.

Note: Before creating a Gmail connection, you must upload the trusted Gmail public certificate to Integration Cloud Service. The trusted Gmail public certificate can be downloaded from <https://gmail.com>. Rename the GoogleCertificate.txt file extension to .cer. To upload the certificate, see [Uploading an SSL Certificate](#).

Uploading an SSL Certificate

Certificates are used to validate outbound SSL connections. If you make an SSL connection in which the root certificate does not exist in Oracle Integration Cloud Service, an exception is thrown. In that case, you must upload the appropriate certificate. A certificate enables Oracle Integration Cloud Service to connect with external services. If the external endpoint requires a specific certificate, request the certificate and then upload it into Oracle Integration Cloud Service.

To upload a certificate:

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

All certificates currently uploaded to the trust store are displayed in the Certificates dialog. The **Filter By > Type** list displays the following details:

- **Preinstalled:** Displays the certificates automatically installed in Oracle Integration Cloud Service. These certificates cannot be deleted.
- **Uploaded:** Displays the certificates uploaded by individual users. These certificates can be deleted and updated.

You can also search for certificates in the **Search** field. The search results are limited to a maximum of ten records sorted by name for performance and usability reasons. To ensure that your search results are more granular, enter as much of the certificate name as possible.

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

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

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

6. Click the certificate name to view details such as the subject of the certificate, the issuer of the certificate, the date the certificate was issued, and the date the certificate expires.

Creating a Connection

The first step in creating an integration is to create the connections to the applications with which you want to share data.

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

The Create Connection — Select Adapter dialog is displayed.

4. Select an adapter from the dialog. You can also search for the type of adapter to use by entering a partial or full name in the Search field, and clicking **Search**.

The New Connection — Information dialog is displayed.

5. Enter the information to describe the connection.
 - Enter a meaningful name to help others find your connection when they begin to create their own integrations. The name you enter is automatically added in capital letters to the **Identifier** field.
 - 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

Configure security for your Gmail connection by selecting the security policy and specifying the client ID and client secret. The security policy grants you authorization access to the resources of the Gmail application. When your Oracle Gmail connection requests access to the resources stored on the resource server, your connection is authenticated by sending the client ID and the client secret to the authorization server.

1. Click **Configure Credentials**.
2. In the **Security Policy** field, note that the **Google OAuth Authorization Code Credentials** security policy is displayed by default, and cannot be deselected.
3. In the **Client ID** field, enter the client ID created after completing the steps in [Prerequisites for Creating a Connection](#).
4. In the **Client Secret** field, enter the client secret created after completing the steps in [Prerequisites for Creating a Connection](#).
5. In the **Scope** field, click to display a list of available scopes.
6. Copy and paste the scopes to use, separated by blank spaces.
7. Click **Provide Consent** to allow consent.

A dialog is displayed indicating that an OAuth request is being initiated from Oracle Integration Cloud Service to Gmail. If the redirect URL in the project in the developer console is correct, the consent screen is displayed. Otherwise, an error occurs indicating that there is a redirect URI mismatch. Once consent is given, a successful consent page is displayed.

8. Click **OK**.

You are now ready to test your connection.

Testing the Connection

Test your connection to ensure that it is successfully configured.

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

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

The connection test was successful!

2. If your connection was unsuccessful, an error message is displayed with details. Verify that the configuration details you entered are correct.
3. When complete, click **Save**.

Editing a Connection

You can edit connection settings after creating a new connection.

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



The Connection page is displayed.

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

Cloning a Connection

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

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



The Clone Connection dialog is displayed.

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

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

Deleting a Connection

You can delete a connection from the connection menu.

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



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

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

Creating an Integration

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

Topic

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

Adding the Gmail Adapter Connection to an Integration

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

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

Topics

- [Configuring Basic Information Properties](#)
- [Configuring Gmail Adapter Invoke Operation Selection Properties](#)
- [Reviewing Configuration Values on the Summary Page](#)

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

Configuring Basic Information Properties

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

Topics

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

What You Can Do from the Basic Info Page

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

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

What You See on the Basic Info Page

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

Element	Description
What do you want to call your endpoint?	<p>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:</p> <ul style="list-style-type: none">• Blank spaces (for example, My Inbound Connection)• Special characters (for example, #;83& or righ(t)now4)• Multibyte characters
What does this endpoint do?	<p>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.</p>

If you are configuring the SOAP Adapter, there is an additional property.

Element	Description
Preview updated SOAP adapter runtime	<p>You can uptake the new 16.3.3 functionality exposed by the SOAP Adapter.</p> <ul style="list-style-type: none"> • Yes: Provides 16.3.3 functionality (TLSv1.2 support, the ability to suppress timestamps for requests and ignore timestamps upon response, and the ability to disable validation of the SOAP action in the WSDL). The underlying transport mechanism used is the cloud SDK-based JCA transport. • No: Uses 16.2.5 functionality. The underlying transport mechanism used is the Oracle Service Bus-based HTTP transport.
<p>Note: If you import a pre-16.3.3 integration into Oracle Integration Cloud Service 16.3.3 that includes the SOAP Adapter, you must open the adapter in edit mode and explicitly select Yes to uptake the new 16.3.3 functionality.</p>	

Configuring Gmail Adapter Invoke Operation Selection Properties

Enter the Gmail Adapter invoke operation selection parameters.

Topics

- [What You Can Do from the Gmail Adapter Operation Selection Page](#)
- [What You See on the Gmail Adapter Operation Selection Page](#)

What You Can Do from the Gmail Adapter Operation Selection Page

You can configure the following parameter on the Gmail Adapter invoke Operation Selection page.

- Select the Gmail API operation to perform.

What You See on the Gmail Adapter Operation Selection Page

The following table describes the key information on the Gmail Adapter Operation Selection page.

Element	Description
Select Operation	<p>Select the Gmail API operation to perform.</p> <ul style="list-style-type: none">• Notification Watch• List Threads• Get Thread• Trash Thread• List Messages• Get Message• Get Message Attachment• Send Message• List Drafts• Create Draft• Get Draft• Delete Draft• Send Draft• List Labels• Create Label• Delete Label <p>The Gmail resource URI and template parameter associated with your selected operation are displayed on the Summary page of this wizard. For information about the Gmail API, visit the following URL:</p> <p>https://developers.google.com/gmail/api/v1/reference</p>

Reviewing Configuration Values on the Summary Page

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

Topics

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

What You Can Do from the Summary Page

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

- View the configuration details you defined for the adapter. For example, if you have defined an inbound trigger (source) adapter with a request business object and immediate response business object, specific details about this configuration are displayed on the Summary page.
- Click **Done** if you want to save your configuration details.

- Click a specific tab in the left panel or click **Back** to access a specific page to update your configuration definitions.
- Click **Cancel** to cancel your configuration details.

What You See on the Summary Page

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

Element	Description
Summary	<p>Displays a summary of the configuration values you defined on previous pages of the wizard.</p> <p>The information that is displayed can vary by adapter. For some adapters, the selected business objects and operation name are displayed. For adapters for which a generated XSD file is provided, click the XSD link to view a read-only version of the file.</p> <p>To return to a previous page to update any values, click the appropriate tab in the left panel or click Back.</p>

Creating Mappings and Lookups in Integrations

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

Topics

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

Administering Integrations

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

Topic

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

