

Loftware Integration - Oracle Integration

Cloud

Version 3.0

Installation and Configuration Guide

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Loftware Integration - Oracle Integration Cloud

Loftware Integration - Oracle Integration Cloud (OIC) is an OIC adapter that enables you to integrate Oracle Cloud applications with a supported Loftware labeling solution so that users can drive label printing from Oracle Cloud applications, such as the Oracle Supply Chain Management (SCM) application.

An OIC user installs and configures this Loftware adapter for OIC in an Oracle Integration 3 instance in Oracle Cloud. The OIC user must have access to Oracle Cloud SCM and an Oracle Integration 3 instance. Loftware Cloud Enterprise SP and Loftware Cloud are supported.

Note: Within this guide, Oracle Integration 3 may also be referred to as Oracle Integration Cloud (OIC).

Tip: For more documentation about this product, see [Loftware Components: Loftware Integration - OIC](#).

Technical Requirements for Oracle Cloud Applications Integration

Software Integration - Oracle Integration Cloud (OIC) is an OIC adapter designed to enable either Software Cloud Enterprise SP or Software Cloud to integrate with the Oracle Cloud Platform. This Software adapter for OIC supports Oracle Integration 3.

Oracle Cloud Requirements

If you are integrating a Software labeling solution with Oracle Integration 3 by using Software Integration - Oracle Integration Cloud (OIC), you must meet the following requirements for the Oracle Cloud Platform.

Tip: In Oracle Cloud, Software Integration - OIC is represented as a third-party adapter called the Adapter by Software. The *Software Integration - Oracle Integration Cloud Installation and Configuration Guide* provides instructions for installing and configuring this adapter.

Component	Requirement
Oracle Cloud access	<p>Access to Oracle Cloud, including the following:</p> <ul style="list-style-type: none"> • Oracle Supply Chain Management (SCM) • Oracle Integration 3 <p>You must have an account in Oracle Integration 3 with the role of ServiceDeveloper or ServiceAdministrator to perform some of the tasks required by the <i>Software Integration - Oracle Integration Cloud Installation and Configuration Guide</i>.</p> <p>Note: You must have Oracle Cloud SCM and an Oracle Integration 3 instance running.</p>

Additionally, you must meet requirements specific to whichever of the following Software labeling solutions you are integrating with Oracle Cloud.

- [Software Cloud Enterprise SP Requirements for Integration](#)
- [Software Cloud Requirements for Integration](#)

Software Cloud Enterprise SP Requirements for Integration

If integrating Software Cloud Enterprise SP with Oracle Cloud applications by using Oracle Integration 3, the following are required.

Component	Requirement
Software license	<p>A Software Enterprise SP license that includes the following:</p> <ul style="list-style-type: none"> • Software Cloud Enterprise SP 5.2 or later • Oracle Integration
Oracle Cloud integration	<p>In Software Cloud Enterprise SP, an Oracle Cloud integration must be created and configured. This Oracle Cloud integration should be created before the OIC integration is created in OIC because the Oracle Cloud integration name is required when configuring the OIC integration.</p>
Software Enterprise SP user	<p>A Software Enterprise SP user that will send print jobs from Oracle Cloud to the Oracle Cloud integration in Software Cloud Enterprise SP.</p> <p>This user should be created before the OIC connection is created because authentication credentials for this user are required when configuring the OIC connection in OIC.</p>

For more information about configuring Software Cloud Enterprise SP to work with Software Integration - OIC, see [Getting Started with Software Integration - Oracle Integration Cloud](#).

Software Cloud Requirements for Integration

If integrating Software Cloud (not including Software Cloud Enterprise SP) with Oracle Cloud applications by using Oracle Integration 3, the following are required.

Component	Requirement
Software license	<p>A Software Cloud license that includes the following:</p> <ul style="list-style-type: none"> • Software Cloud Business edition, Software Cloud Compliance edition, or Software Cloud Enterprise edition, version 24.2 or later • Software Automation • Oracle Integration
Software Automation	<p>The Software Automation configuration file (.misx) that supports Oracle Integration 3. This configuration file should be installed before Software Integration - OIC is installed.</p>
Software Cloud subscription key	<p>A Software Cloud subscription key, which should be created before Software Integration - OIC is installed.</p>

For more information about configuring Software Cloud to work with Software Integration - OIC, see [Getting Started with Software Integration - Oracle Integration Cloud](#).

How to Obtain a License for the Product


This section is provided to assist customers who are reviewing Loftware Integration - Oracle Integration Cloud (OIC) documentation prior to obtaining the product.

Note: Loftware Integration - OIC is a cloud-based adapter for Oracle Cloud that is obtained from the Oracle Integration Store within Oracle Integration 3. There is no software installation package to download from Loftware. For more information, see the *Loftware Integration - Oracle Integration Cloud Installation and Configuration Guide*, available via [Loftware Components: Loftware Integration - Oracle Integration Cloud](#).

If you are a new customer interested in Loftware Integration - OIC, [contact Loftware Sales](#).

If you are an existing customer using Loftware Cloud or Loftware Cloud Enterprise SP and you are interested in using Loftware Integration - OIC:

- If your Loftware Cloud or Loftware Enterprise SP license includes Oracle integration, then you have the necessary license.
- If your Loftware Cloud or Loftware Enterprise SP license does not include Oracle integration and you would like to add it, [contact Loftware Sales](#) about purchasing an add-on to your license.

- If you have a Loftware Enterprise SP license but need to determine whether it includes Oracle integration, you can use either of the following approaches to view your license information:
 - You can view your license information in Loftware Cloud Enterprise SP. In Loftware Cloud Enterprise SP, click  Help > **About**. In the **License** panel, the **Oracle Integrations** entry indicates whether your license includes Oracle integration.
 - You can view your license online. For information about how to sign in to the Loftware Licensing Server and view an existing license, see [Loftware Licensing Server Help](#).

Configuring Software Integration - Oracle Integration Cloud

To install and configure Software Integration - Oracle Integration Cloud (OIC), ensure that you are prepared with the necessary information and then use the following procedures.

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Preparing for Installation

You will require the following information while installing and configuring Loftware Integration - Oracle Integration Cloud (OIC).

- Access to Oracle Cloud, including Oracle Cloud SCM and Oracle Integration 3. For information about permissions in OIC required to install and use third-party adapters such as the Loftware adapter for OIC, refer to Oracle Integration 3 documentation on Oracle's website.
- If using with Loftware Cloud Enterprise SP, you must obtain the following details from a Loftware Enterprise SP administrator:
 - Loftware Application Server host name or IP address
 - Loftware Enterprise SP user name and password. This should be a dedicated user that will send print jobs from Oracle Cloud to Loftware Cloud Enterprise SP.
 - Name of an Oracle Cloud integration in Loftware Cloud Enterprise SP
 - The following are required if they are not defined in a process or business rule in Loftware Cloud Enterprise SP.
 - Fully-qualified name of a label template in Loftware Cloud Enterprise SP
 - Fully-qualified name of a device to which to print, as defined in Loftware Cloud Enterprise SP
 - Quantity of labels to print
 - A list of data refs of data fields used by the label template or process. These fields are configured in Loftware Cloud Enterprise SP.

- If using with Software Cloud (not including Software Cloud Enterprise SP), you must obtain the following details from a Software Cloud administrator:
 - Software Cloud subscription key
 - Fully-qualified name of a label template in Software Cloud
 - Fully-qualified name of a device to which to print, as specified in Software Cloud
 - Quantity of labels to print
 - A list of data fields used by the label template. These fields are configured in Software Cloud.

Install the Loftware Adapter for OIC

To obtain the Loftware adapter for OIC from the Oracle Integration Store and install it in your Oracle Integration 3 instance, perform the following procedure.

1. Sign in to your OIC instance.
2. On the **Home** page (**Create and monitor**), click the **Browse store** button to display the **Integration Store** page.
3. On the **Integration Store** page, enter **Loftware** in the **Search** box.
4. Find the listing for **Adapter by Loftware** and click **Get**.
5. Read and accept the terms, and then click **Get**. A message is displayed when installation is complete.
6. Point to the menu button for the website and select **Design > Adapters**. The Loftware adapter is displayed with the type **Third Party**.

Continue to [Create OIC Connections](#).

Create OIC Connections

You must create OIC connections to integrate a Loftware labeling solution with Oracle Integration 3. Using the Oracle ERP Adapter, you create a connection to Oracle Cloud SCM. Using the Loftware adapter for OIC, you create a connection to your labeling solution, incorporating information obtained from the labeling solution.

To create the necessary OIC connections to integrate a Loftware labeling solution, perform the following procedure. For more information about how to create OIC connections, refer to Oracle Integration 3 documentation.

1. Perform the following steps in OIC to create a connection from the Oracle Cloud SCM to the Oracle ERP adapter.
 - a. In OIC, point to the menu button and select **Design > Connections**.
 - b. Create a trigger connection for Oracle Cloud SCM with the Oracle ERP adapter. During this process, you will select the Oracle Cloud SCM business event that will trigger your Loftware labeling solution to print a label. For more information, refer to Oracle Integration 3 documentation.
2. Perform the following steps in OIC to create a connection from the Loftware adapter (Invoke) to your Loftware labeling solution.
 - a. In OIC, point to the menu button and select **Design > Connections**.
 - b. On the **Connections** page, click **Create**.
 - c. In the **Create connection** panel, search for **Loftware** and select the Loftware adapter. Options for an OIC connection for the Loftware adapter are displayed.
 - d. For **Name**, enter a name for the OIC connection.
 - e. For **Role**, select **Invoke**.
 - f. Click **Create**. Options for properties of the OIC connection for the Loftware adapter are displayed.

g. For **Software Connection URL**:

- If using Software Cloud Enterprise SP, enter the URL for the labeling solution endpoint using the following format. Replace *<Host_or_IPAddress>* with the host name or IP address of the Software Application Server. Specify a prefix and access port as appropriate.

```
<http|https>://<Host_or_IPAddress>:<port>
/spectrum-server/int/ocloudpj
```

Example

```
https://example.com:8443/spectrum-server/int/ocloudpj
```

- If using Software Cloud (not including Software Cloud Enterprise SP), enter the following URL for the labeling solution endpoint.

```
https://labelcloudapi.onnicelabel.com
/Trigger/v1/CloudTrigger/Api-OracleCloud-OIC
```

h. For **Security Policy**:

- If using Software Cloud Enterprise SP, select **HTTP Basic Authentication**. Enter Software Enterprise SP user credentials.
- If using Software Cloud (not including Software Cloud Enterprise SP), select **API Key-Based Authentication**. For **Subscription Key**, enter a Software Cloud subscription key.

i. For **Access Type**, select **Public gateway**.

j. Click **Save**. A confirmation message is displayed.

k. Click **Test** to test the OIC connection.

Continue to [Create an OIC Integration](#).

Create an OIC Integration

You must create an OIC integration that uses the OIC connections that you created.

To create an OIC integration to integrate a Loftware labeling solution, perform the following procedure.

1. In Oracle Cloud, create an OIC integration. For more information, refer to Oracle Integration 3 documentation.
2. Configure the Trigger endpoint for your OIC integration using the Oracle Cloud SCM Trigger Connection that you created in [Create OIC Connections](#). Refer to Oracle documentation for details.

3. Configure the Invoke endpoint using the Loftware adapter connection that you created in [Create OIC Connections](#) and information from a Loftware labeling solution.
 - a. For **Label**, enter the name of the label template used in the labeling solution if provided.
 - b. For **Device**, enter the name of the device to which to print as specified in the labeling solution if provided.
 - c. For **Quantity**, enter the number of labels to print if provided.
 - d. If using Loftware Cloud Enterprise SP as your labeling solution, for **Loftware Integration Name** enter the name of the Oracle Cloud integration defined in Loftware Cloud Enterprise SP.
 - e. Optionally, you can pass the name of the Oracle Cloud SCM event that triggers this integration to the labeling solution. Within Loftware Cloud Enterprise SP, this event name can be used for conditional logic in a business rule or script. To pass the event name to the labeling solution, enter it for **Event Name**.
 - f. For **Label Fields**, add the data refs of any data fields that are used by the label template or process in the labeling solution. You are mapping fields from the trigger endpoint to these fields, but the names do not have to match the trigger endpoint fields.
 - g. Click **Continue**.

Finish configuring the OIC integration and then save it. For more information, refer to Oracle Integration Cloud documentation.