

Oracle® Cloud

Using the SAP Commerce Cloud (Hybris) Adapter with Oracle Integration Generation 2



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Contents

Preface

Audience	v
Documentation Accessibility	v
Diversity and Inclusion	v
Related Resources	vi
Conventions	vi

1 Understand the SAP Commerce Cloud (Hybris) Adapter

SAP Commerce Cloud (Hybris) Adapter Capabilities	1-1
What Application Version Is Supported?	1-2
Workflow to Create and Add an SAP Commerce Cloud (Hybris) Adapter Connection to an Integration	1-2

2 Create an SAP Commerce Cloud (Hybris) Adapter Connection

Prerequisites for Creating a Connection	2-1
Common Customization Scenarios	2-6
Upload an Image	2-7
Create a Connection	2-9
Configure Connection Properties	2-10
Configure Connection Security	2-10
Test the Connection	2-10
Upload an SSL Certificate	2-11

3 Add the SAP Commerce Cloud (Hybris) Adapter Connection to an Integration

Basic Info Page	3-1
Invoke Actions Page	3-2
Invoke Operations Page	3-2
Summary Page	3-2

4 Implement Common Patterns Using the SAP Commerce Cloud (Hybris) Adapter

Synchronize a Salesforce User with a Customer in the SAP Commerce Cloud Application

4-1

Preface

This guide describes how to configure this adapter as a connection in an integration in Oracle Integration.



Note:

The use of this adapter may differ depending on the features you have, or whether your instance was provisioned using Standard or Enterprise edition. These differences are noted throughout this guide.

Topics:

- [Audience](#)
- [Documentation Accessibility](#)
- [Diversity and Inclusion](#)
- [Related Resources](#)
- [Conventions](#)

Audience

This guide is intended for developers who want to use this adapter in integrations in Oracle Integration.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and

partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

Related Resources

See these Oracle resources:

- Oracle Cloud
<http://cloud.oracle.com>
- *Using Integrations in Oracle Integration Generation 2*
- *Using the Oracle Mapper with Oracle Integration Generation 2*

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<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.

1

Understand the SAP Commerce Cloud (Hybris) Adapter

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

Topics

- [SAP Commerce Cloud \(Hybris\) Adapter Capabilities](#)
- [What Application Version Is Supported?](#)
- [Workflow to Create and Add an SAP Commerce Cloud \(Hybris\) Adapter Connection to an Integration](#)

Note:

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

SAP Commerce Cloud (Hybris) Adapter Capabilities

SAP Commerce Cloud is an e-commerce and product content management software provider that helps to take control of your communication, sales, and customer service processes across all channels using Enterprise Multichannel Commerce Software, Product Content Management, Master Data Management, Mobile Commerce, and E-Commerce Consulting modules of it.

The SAP Commerce Cloud (Hybris) Adapter enables you to create an integration with an SAP Commerce Cloud application. You can configure the SAP Commerce Cloud (Hybris) Adapter as an invoke connection in an integration in Oracle Integration.

The SAP Commerce Cloud (Hybris) Adapter provides the following benefits:

- Provides metadata caching support.
- Provides invoke (target) support for performing the following types of operations against objects defined under Omni Commerce Connect (OCC) of the SAP Commerce Cloud application:
 - Create or Update (create or update records from SAP Commerce Cloud)
 - Query (get records from SAP Commerce Cloud)
 - Delete (delete records from SAP Commerce Cloud)
- Supports SAP Commerce Cloud APIs protected using OAuth 2.0 two-legged authentication.

- Supports B2B features, if the B2B API AddOn for Omni Commerce Connect (b2bocaddon) is enabled in SAP Commerce Cloud.
- Supports uploading an image in SAP Commerce Cloud.

The SAP Commerce Cloud (Hybris) Adapter is one of many predefined adapters included with Oracle Integration. You can configure the SAP Commerce Cloud (Hybris) Adapter as an invoke 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 Connectivity Certification Matrix.

See [Connectivity Certification Matrix](#).

Workflow to Create and Add an SAP Commerce Cloud (Hybris) Adapter Connection to an Integration

Follow a simple workflow to create a connection with an adapter and include the connection in an integration in Oracle Integration.

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

Step	Description	More Information
1	Access Oracle Integration.	Go to <code>https://instance_URL/ic/home</code> .
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.	Add the SAP Commerce Cloud (Hybris) Adapter Connection to an Integration
3	Create the integration. When you do this, you add trigger (source) and invoke (target) connections to the integration.	Create Integrations in <i>Using Integrations in Oracle Integration Generation 2</i> and Add the SAP Commerce Cloud (Hybris) Adapter Connection to an Integration
4	Map data between the trigger connection data structure and the invoke connection data structure.	Map Data in <i>Using Integrations in Oracle Integration Generation 2</i>
5	(Optional) Create lookups that map the different values used by those applications to identify the same type of object (such as gender codes or country codes).	Manage Lookups in <i>Using Integrations in Oracle Integration Generation 2</i>
6	Activate the integration.	Activate Integrations in <i>Using Integrations in Oracle Integration Generation 2</i>
7	Monitor the integration on the dashboard.	Monitor Integrations in <i>Using Integrations in Oracle Integration Generation 2</i>

Step	Description	More Information
8	Track payload fields in messages during runtime.	Assign Business Identifiers for Tracking Fields in Messages and Manage Business Identifiers for Tracking Fields in Messages in <i>Using Integrations in Oracle Integration Generation 2</i>
9	Manage errors at the integration level, connection level, or specific integration instance level.	Manage Errors in <i>Using Integrations in Oracle Integration Generation 2</i>

2

Create an SAP Commerce Cloud (Hybris) Adapter Connection

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

Topics

- [Prerequisites for Creating a Connection](#)
- [Create a Connection](#)
- [Upload an SSL Certificate](#)

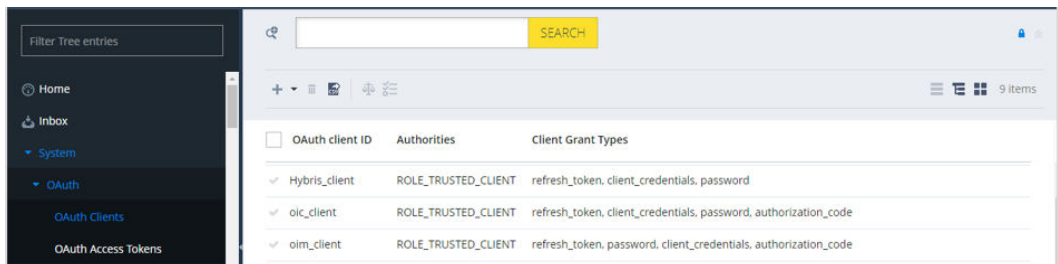
Prerequisites for Creating a Connection

You must satisfy the following prerequisites to create a connection with the SAP Commerce Cloud (Hybris) Adapter:

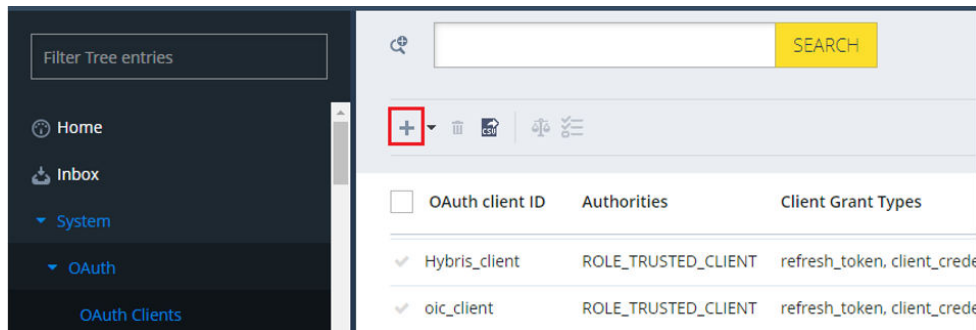
- [Create an OAuth Client](#)
- [Create and Assign a User to the Customer Manager Group](#)

Create an OAuth Client

1. Log in to your SAP Commerce Cloud Backoffice and go to **System > OAuth > OAuth Clients**.



2. Click the add (+) icon. The Create New OAuth Client Details dialog box is displayed.



3. Set the OAuth client ID and client secret, and click **NEXT**.

✕

ESSENTIAL > BASIC > SCOPES > TOKEN VALIDITY

OAuth client ID: ⓘ

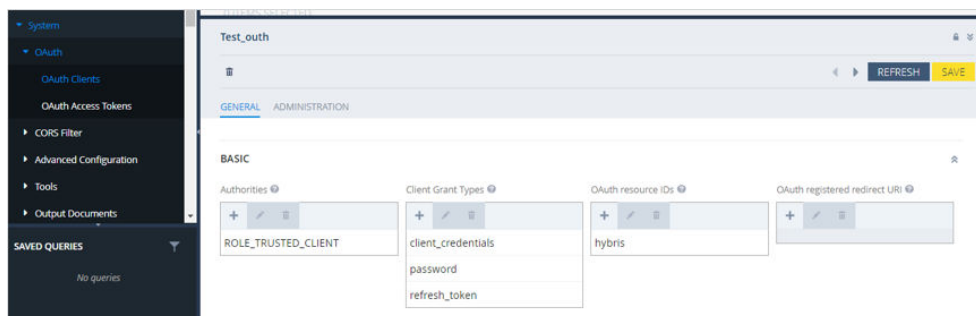
Client Secret: ⓘ

CANCEL NEXT

Note:

You use the client ID and client secret later when configuring security for your SAP Commerce Cloud (Hybris) Adapter connection. See [Configure Connection Security](#).

4. Enter the following details in the respective fields, and click **NEXT**.



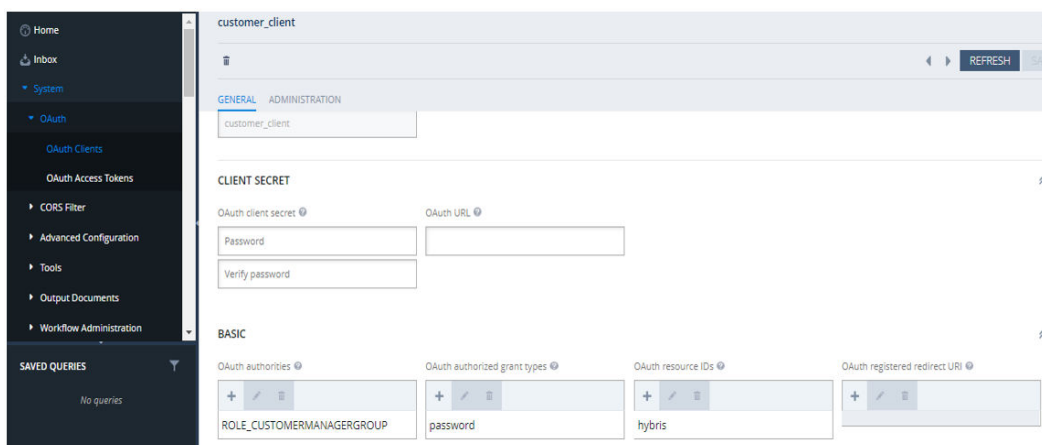
Element	Description
Authorities	ROLE_TRUSTED_CLIENT
Client Grant Types	refresh_token, client_credentials, password
OAuth resource IDs	hybris

If you need to access Customer Groups services, you must only enter the details described in the following table.

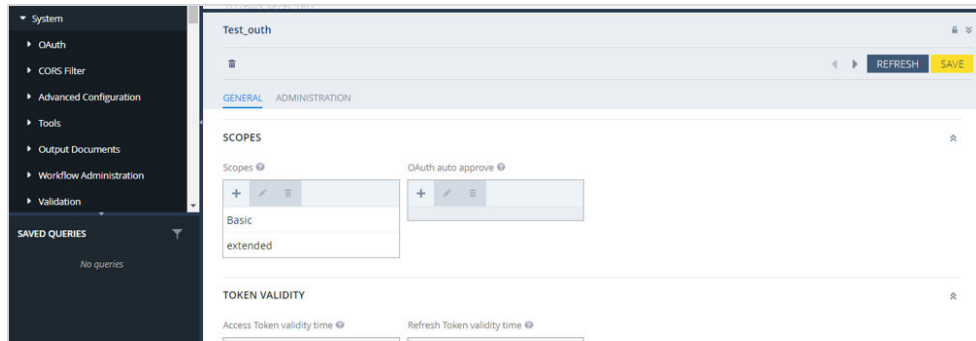
 **Note:**

- If you need to access the Customer Groups services, authorization for **ROLE_CUSTOMERMANGERRGROUP** is required.
- Customer Groups is a secured service and is secured with **ROLE_CUSTOMERMANGERRGROUP**. To access the Customer Groups services, you must be a member of the Customer Manager Group. Therefore, you must assign the Customer Manager Group to the integration user. See [Create and Assign a User to the Customer Manager Group](#).
- Configure Resource Owner Password Credentials (ROPC) security for the SAP Commerce Cloud (Hybris) Adapter connection to access the customer group services.

Element	Description
Authorities	ROLE_CUSTOMERMANGERRGROUP
Client Grant Types	password
OAuth resource IDs	hybris



5. Enter `basic` and extended in the **Scopes** field, and click **NEXT**.

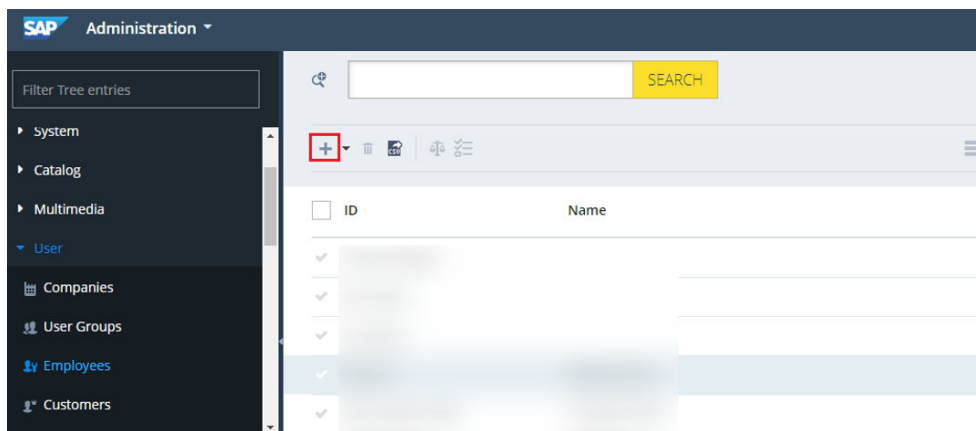


6. In the **Access Token validity time** field, enter the required time (in seconds) that depends on the frequency of integration execution (for example, 28800). In the **Refresh Token validity time** field, enter a value greater than Access Token validity time (for example, 32400).
7. Click **DONE**.

Create and Assign a User to the Customer Manager Group

Perform the following steps to create and assign a user to the Customer Manager Group.

1. Log in to your SAP Commerce Cloud Backoffice and go to **User > Employees**.
2. Click the add (+) icon. The Create New Employee dialog box is displayed.



3. Enter the ID in the following format:

firstname.lastname@domain.com

For example: c.smith@example.com

4. Enter the additional required details in the respective fields, and click **NEXT**.

Create New Employee ✕

GENERAL LOCALE INFORMATION MEMBERSHIPS
Basic user information Preferred language and currency Assign user to groups

ID:

Name:

Description:

[CANCEL](#) [NEXT](#) **DONE**

- 5. Under **MEMBERSHIPS**, search for **customermanagergroup**, assign the user to the Customer Manager Group, and click **DONE**.

Create New Employee ✕

GENERAL LOCALE INFORMATION **MEMBERSHIPS**
Basic user information Preferred language and currency Assign user to groups

Groups:

<input type="text" value="[employeegroup]"/>
Customer Manager Group [customermanagergroup]
<input type="text"/>

[BACK](#) [CANCEL](#) **DONE**

- 6. Once the user is created and assigned to Customer Manager Group, click **Employees** under **User** on the home page.
- 7. Click the respective customer ID, and click the **PASSWORD** tab.

8. Enter a new password for the customer user, re-enter the password for confirmation, and click **SAVE**.

Common Customization Scenarios

You must perform specific annotations to ensure that SAP Commerce Cloud reflects customizations in the SAP Commerce Cloud (Hybris) Adapter.

Three main types of customizations are possible in the Omni Commerce Connect (OCC) services of SAP Commerce Cloud. To make customizations available in the SAP Commerce Cloud (Hybris) Adapter, follow these guidelines:

- [Add New Custom Fields in the Standard Operation/API](#)
- [Add a New Custom API/Operation Under a Standard Object](#)
- [Add a New Custom Object](#)

Add New Custom Fields in the Standard Operation/API

Ensure that the custom fields are annotated with `@ApiParam` so that the fields can be discovered in the Swagger metadata document.

```
@ApiParam(value = "Sorting method applied to the return results.") @RequestParam(required = false) final String sort,
@ApiParam(value = "The context to be used in the search query.") @RequestParam(required = false) final String searchQueryContext,
@ApiFieldsParam @RequestParam(defaultValue = DEFAULT_FIELD_SET) final String fields,
@ApiParam(value = "Searched Based on Product Name", required = false) @RequestParam(required = false) final String productName,
final HttpServletResponse response){
```

Add a New Custom API/Operation Under a Standard Object

Ensure that the operation (method) is annotated with `@ApiOperation` and `@ApiBaseSiteIdParam` so that the operation can be discovered in the Swagger metadata document.

```
@RequestMapping(value = "/getStoreByName/{storeName}", method = RequestMethod.GET)
@ApiOperation(nickname = "getStoreByName", value = "Get a store by name", notes = "Returns store based on its unique name.")
@ApiBaseSiteIdParam
@ResponseBody
public PointOfServiceWsDTO getStoreByName(@ApiParam(value = "Store identifier (by store name)", required = true)
```

Add a New Custom Object

Ensure that the new object (controller class) is annotated with `@Api(tags = "<<ObjectName>>")` so that the object can be discovered in the Swagger metadata document. You can follow the above-mentioned information to add the operations and fields.

```
/**
 * package com.ocicustomocccwebservice.v2.controller;
 *
 * import de.hybris.platform.webservicescommons.cache.CacheControl;
 *
 * /**
 *  * @author Anand.Mund
 *  *
 *  */
 *
 * @Controller
 * @RequestMapping(value = "{baseSiteId}/brand")
 * @CacheControl(directive = CacheControlDirective.PRIVATE)
 * @Api(tags = "Brand")
 * public class BrandController extends BaseController{
 *     private static final Logger LOG = LoggerFactory.getLogger(BrandController.class);
 *
 *     @Resource(name = "brandFacade")
 *     private BrandFacade brandFacade;
 *
 *     @RequestMapping(value = {"/search"}, method = RequestMethod.GET)
 *     @ResponseBody
 *     @ApiOperation(nickname = "getBrand", value = "Get the list of brand for a particular basestore..")
 *     @ApiBaseSiteIdParam
 *     public BrandWsDTO getBrand(@ApiFieldsParam @RequestParam(defaultValue = DEFAULT_FIELD_SET) final String fields) {
 *         //final BrandWsDTO brandDto = new BrandWsDTO();
 *         final BrandData brandData = brandFacade.getBrand();
 *
 *         return getDataMapper().map(brandData, BrandWsDTO.class, fields);
 *     }
 * }
 */
```



Note:

Replace `<<ObjectName>>` with the actual name of the object that you need to add.

Upload an Image

You can upload an image for a product in SAP Commerce Cloud using customizations in the Omni Commerce Connect (OCC) services of SAP Commerce Cloud.

Perform the following steps to upload an image for a product:

1. Add a new object in the OCC services of SAP Commerce Cloud. See [Add a New Custom Object](#).


```

* @author Anand.Mund
*
*/
@Controller
@Api(tags = "Media")
@RequestMapping(value = "/{baseSiteId}/media")
@CacheControl(directive = CacheControlDirective.PRIVATE)
public class MediaController extends BaseController{
    private static final Logger LOGGER = LoggerFactory.getLogger(MediaController.class);

    @Resource
    private MediaFacade mediaFacade;
    @Resource
    private DataMapper dataMapper;
    @Resource
    private CustomProductFacade cicProductFacade;

    @RequestMapping(value = "/uploadImage", method = RequestMethod.POST, consumes = MediaType.MULTIPART_FORM_DATA_VALUE)
    @ResponseStatus(value = HttpStatus.CREATED)
    @ResponseBody
    @ApiOperation(nickname = "uploadImage", value = "upload an Invoice")
    @ApiBaseSiteIdParam
    public CustomMediaWebDTO uploadMediaImage(
        @ApiParam(value = "The MediaData containing the data for the associated media item to be created.", required = true)
        @ModelAttribute("media") final MediaData media,
        @ApiParam(value = "The unique identifier of the product to which the new image will be linked.", required = true)
        @RequestParam("productId") final String productId,
        @ApiParam(value = "The file representing the actual binary contents of the media to be created.", required = true)
        @RequestParam("file_field_1") final MultipartFile multipart,
        final HttpServletRequest httpRequest, final HttpServletResponse httpResponse) throws IOException {

```

- Once the custom object is created, open the Swagger file. The custom object (that is, the media and service (endpoint)), is displayed in the Swagger file.

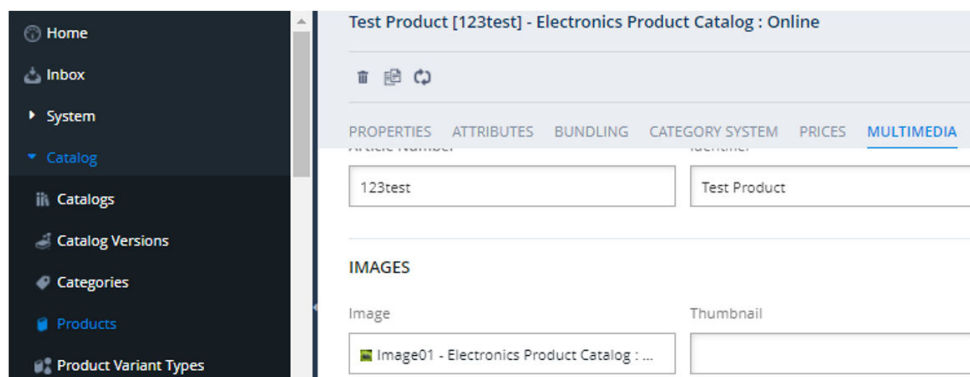


You can send an image in Base64 format to Oracle Integration using a SOAP Adapter connection.

- Configure the SOAP Adapter as a trigger connection and the SAP Commerce Cloud Adapter as an invoke connection in an integration in Oracle Integration.
- In the mapper, perform the mapping. The image is decoded to the attachment reference type using functions in the mapper. The same image is uploaded for the product based on the product ID passed in the request payload.

To verify the uploaded image in Backoffice:

- Log in to your SAP Commerce Cloud Backoffice application.
- Navigate to **Catalog > Product**.
- Select the respective product and click the **MULTIMEDIA** tab.



4. Click the uploaded image. The image is displayed.

Create a Connection

Before you can build an integration, you have to create the connections to the applications with which you want to share data.


To create a connection in Oracle Integration:

1. In the left navigation pane, click **Home > Integrations > 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.)

3. In the Create Connection — Select Adapter dialog, select the adapter to use for this connection. To find the adapter, scroll through the list, or enter a partial or full name in the **Search** field and click  **Search**.
4. In the Create Connection dialog, enter the information that describes this connection.
 - a. Enter a meaningful name to help others find your connection when they begin to create their own integrations. The name you enter is automatically added in capital letters to the **Identifier** field. If you modify the identifier name, don't include blank spaces (for example, SALES OPPORTUNITY).
 - b. Enter optional keywords (tags). You can search on the connection keywords on the Connections page.
 - c. Select the role (direction) in which to use this connection (trigger, invoke, or both). Only the roles supported by the adapter are displayed for selection. When you select a role, only the connection properties and security policies appropriate to that role are displayed on the Connections page. If you select an adapter that supports both invoke and trigger, but select only one of those roles, you'll get an error when you try to drag the adapter into the section you didn't select. For example, let's say you configure a connection for the Oracle Service Cloud (RightNow) Adapter as only an **invoke**. Dragging the adapter to a **trigger** section in the integration produces an error.
 - d. Enter an optional description of the connection.
5. Click **Create**.

Your connection is created. You're now ready to configure the connection details, such as connection properties, security policies, connection login credentials, and (for certain connections) agent group.

Configure Connection Properties

Enter connection information so your application can process requests.

1. Go to the **Connection Properties** section.
The Connection Properties dialog is displayed.
2. In the **SAP Commerce Cloud Instance URL** field, enter your SAP Commerce Cloud instance URL.

Configure Connection Security

Configure security for your SAP Commerce Cloud (Hybris) Adapter connection.

1. Go to the **Security** section.
2. From the **Security Policy** list, select the security policy.
 - **Client Credentials**
 - **Resource Owner Password Credentials**
3. If you select **Client Credentials Policy**.
 - a. In the **Client Id** field, enter the client ID that you obtained after performing the steps in the prerequisites section. See [Create an OAuth Client](#).
 - b. In the **Client Secret** field, enter the client secret that you obtained after performing the steps in the prerequisites section. See [Create an OAuth Client](#).
 - c. In the **Confirm Client Secret** field, re-enter the client secret a second time for confirmation.
4. If you select **Resource Owner Password Credentials**.
 - a. In the **Client Id** field, enter the client ID that you obtained after performing the steps in the prerequisites section. See [Create an OAuth Client](#).
 - b. In the **Client Secret** field, enter the client secret that you obtained after performing the steps in the prerequisites section. See [Create an OAuth Client](#).
 - c. In the **Confirm Client Secret** field, re-enter the client secret a second time for confirmation.
 - d. In the **Username** field, enter the username.
 - e. In the **Password** field, enter the password.
 - f. In the **Confirm Password** field, re-enter the password a second time for confirmation.

Test the Connection

Test your connection to ensure that it's configured successfully.

1. In the page title bar, click **Test**. What happens next depends on whether your connection uses a Web Services Description Language (WSDL) file.

If Your Connection...	Then...
Doesn't use a WSDL	The test starts automatically and validates the inputs you provided for the connection.
Uses a WSDL	A dialog prompts you to select the type of connection testing to perform: <ul style="list-style-type: none"> • Validate and Test: Performs a full validation of the WSDL, including processing of the imported schemas and WSDLs. Complete validation can take several minutes depending on the number of imported schemas and WSDLs. No requests are sent to the operations exposed in the WSDL. • Test: Connects to the WSDL URL and performs a syntax check on the WSDL. No requests are sent to the operations exposed in the WSDL.

2. Wait for a message about the results of the connection test.
 - If the test was successful, then the connection is configured properly.
 - If the test failed, then edit the configuration details you entered. Check for typos, verify URLs and credentials, and download the diagnostic logs for additional details. Continue to test until the connection is successful.
3. When complete, click **Save**.

Upload an SSL Certificate

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

To upload an SSL certificate:

1. In the left navigation pane, click **Home > Settings > Certificates**. All certificates currently uploaded to the trust store are displayed in the Certificates dialog. The



link enables you to filter by name, certificate expiration date, status, type, category, and installation method (user-installed or system-installed). Certificates installed by the system cannot be deleted.

Certificates Upload			
Q 6 Certificates Q			
Installed By: User X			
Name	Type	Category	Status
mykey2 EXPIRES IN 1 MONTH(S)	X.509	Identity	● Configured
mykey2 EXPIRED	X.509	Identity	● Configured
recert1586867745048 EXPIRES IN 4 YEARS	X.509	Trust	● Configured
recert1586863610817 EXPIRES IN 4 YEARS	X.509	Trust	● Configured
recert1586857607511 EXPIRES IN 4 YEARS	X.509	Trust	● Configured
recert1586857416600 EXPIRES IN 4 YEARS	X.509	Trust	● Configured

2. Click **Upload** at the top of the page.
The Upload Certificate dialog box is displayed.
3. Enter an alias name and optional description.
4. In the **Type** field, select the certificate type. Each certificate type enables Oracle Integration to connect with external services.
 - **X.509 (SSL transport)**
 - **SAML (Authentication & Authorization)**
 - **PGP (Encryption & Decryption)**

X.509 (SSL transport)

1. Select a certificate category.
 - a. **Trust:** Use this option to upload a trust certificate.
 - i. Click **Browse**, then select the trust file (for example, `.cer` or `.crt`) to upload.
 - b. **Identity:** Use this option to upload a certificate for two-way SSL communication.
 - i. Click **Browse**, then select the keystore file (`.jks`) to upload.
 - ii. Enter the comma-separated list of passwords corresponding to key aliases.

 **Note:**

When an identity certificate file (JKS) contains more than one private key, all the private keys must have the same password. If the private keys are protected with different passwords, the private keys cannot be extracted from the keystore.

- iii. Enter the password of the keystore being imported.
- c. Click **Upload**.

SAML (Authentication & Authorization)

1. Note that **Message Protection** is automatically selected as the only available certificate category and cannot be deselected. Use this option to upload a keystore certificate with SAML token support. Create, read, update, and delete (CRUD) operations are supported with this type of certificate.
2. Click **Browse**, then select the certificate file (`.cer` or `.crt`) to upload.
3. Click **Upload**.

PGP (Encryption & Decryption)

1. Select a certificate category. Pretty Good Privacy (PGP) provides cryptographic privacy and authentication for communication. PGP is used for signing, encrypting, and decrypting files. You can select the private key to use for encryption or decryption when configuring the stage file action.
 - a. **Private:** Uses a private key of the target location to decrypt the file.

- i. Click **Browse**, then select the PGP file to upload.
 - ii. Enter the PGP private key password.
- b. **Public**: Uses a public key of the target location to encrypt the file.
 - i. Click **Browse**, then select the PGP file to upload.
 - ii. In the **ASCII-Armor Encryption Format** field, select **Yes** or **No**. **Yes** shows the format of the encrypted message in ASCII armor. ASCII armor is a binary-to-textual encoding converter. ASCII armor formats encrypted messaging in ASCII. This enables messages to be sent in a standard messaging format. This selection impacts the visibility of message content. **No** causes the message to be sent in binary format.
 - iii. From the **Cipher Algorithm** list, select the algorithm to use. Symmetric-key algorithms for cryptography use the same cryptographic keys for both encryption of plain text and decryption of cipher text.
- c. Click **Upload**.

3

Add the SAP Commerce Cloud (Hybris) Adapter Connection to an Integration

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

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

Topics

- [Basic Info Page](#)
- [Invoke Actions Page](#)
- [Invoke Operations Page](#)
- [Summary Page](#)

Basic Info Page

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

Element	Description
What do you want to call your endpoint?	<p>Provide a meaningful name so that others can understand the responsibilities of this connection. You can include English alphabetic characters, numbers, underscores, and hyphens in the name. You can't include the following characters:</p> <ul style="list-style-type: none">• No blank spaces (for example, My Inbound Connection)• No special characters (for example, #;83& or righ(t)now4) except underscores and hyphens• No multibyte characters
What does this endpoint do?	<p>Enter an optional description of the connection's responsibilities. For example:</p> <pre>This connection receives an inbound request to synchronize account information with the cloud application.</pre>

Invoke Actions Page

Select the action to perform on SAP Commerce Cloud.

Element	Description
Which action do you want to perform on SAP Commerce Cloud?	<ul style="list-style-type: none"> • Query: Retrieves information from the SAP Commerce Cloud application corresponding to the selected object and operation. • Create or Update: Performs operations for user creation, update payment details, and so on. • Delete: Deletes records from the SAP Commerce Cloud application.

Invoke Operations Page

Select the object and operation to perform on the object.

Element	Description
Select Object	Use the scrolling list to select an object within the selected action.
Filter by Object Name	Type the initial letters of the object name to filter the display of names in the list.
Select Operation	Select an operation name, such as Get Named Accounts .
Filter by Operation Name	Type the initial letters of the operation name to filter the display of names in the list.

Summary Page

You can review the specified adapter configuration values 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> <p>To cancel your configuration details, click Cancel.</p>

4

Implement Common Patterns Using the SAP Commerce Cloud (Hybris) Adapter

You can use the SAP Commerce Cloud (Hybris) Adapter to implement the following common pattern.

Topics:

- [Synchronize a Salesforce User with a Customer in the SAP Commerce Cloud Application](#)

Synchronize a Salesforce User with a Customer in the SAP Commerce Cloud Application

This use case provides an overview of how to synchronize a Salesforce user with a customer in the SAP Commerce Cloud application.

1. Create SAP Commerce Cloud (Hybris) Adapter and Salesforce Adapter connections.
2. Create an app-driven orchestrated integration.
3. Drag the Salesforce Adapter connection into the integration.
4. Configure the workflow rule and outbound messages in the Salesforce application. The same WSDL must be uploaded in the integration.
5. Drag and drop the SAP Commerce Cloud (Hybris) Adapter into the integration.
6. Configure the SAP Commerce Cloud endpoint:
 - a. On the Basic info page, provide an endpoint name, and click **Next**.
 - b. On the Action page, select **Create or Update**, and click **Next**.
 - c. On the Operations page, select **Users** as an object, select **Create User** as an operation, and click **Next**.
 - d. On the Summary page, review your selections, and click **Done**.
7. In the mapper, map the **First Name**, **Last Name**, **Email**, and **Title** elements to the respective fields of SAP Commerce Cloud.
8. Provide the value for **baseSiteId** and the password (password must include at least one uppercase, lowercase, number and special character) in the mapper. The completed integration looks as follows.
9. Specify the tracking variable, save, and close the integration.
10. Activate the integration.
11. Create the user in Salesforce. The same user now reflects on the SAP Commerce Cloud application.
12. To verify the created user, log in to your SAP Commerce Cloud account, and go to **User > Customers**.