



Oracle CPQ – Oracle Order Management Integration Guide

Standard Process Update 23B and Later

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Revision History

This document will continue to evolve as existing sections change and new information is added. Updates appear in the following table.

Date	What's Changed	Notes
OCT 2025	<p>Introduction</p> <p>Installing Business Accelerator (Update 24A or later)</p> <p>OIC Mapping Details (Reference Material)</p> <p>Oracle CPQ Process-related Configuration Changes in CPQ and OIC</p> <p>Appendix E1 - Appendix E1: OIC Integration – FOM CPQ SalesOrderFulfillmentSync</p> <p>Appendix E2: OIC Integration – OSS CPQ BulkSubscriptionProductSync</p>	<p>Oracle CPQ 25D updates include the acronym list, installing the Business Accelerator steps, OIC Line Attribute Mapping Details, new payment attribute mappings for OCC, new Oracle CPQ process-related configuration changes, and updates to OIC Integrations for FOM CPQ SalesOrderFulfillment Sync and OSS CPQ BulkSubscriptionProductSync.</p>
JUL 2025	<p>Enable CPQ and OIC Configuration for System Bundle Support (Optional)</p> <p>Appendix A10: Create Inflight subscription</p> <p>Appendix F: Retrieve OIC Integration Endpoint URL</p>	<p>Oracle CPQ 25C updates include enabling CPQ and OIC for system bundling, support for inflight subscriptions, and retrieving OIC Integration endpoint URLs.</p>
APR 2025	<p>OIC Mapping Details (Reference Material)</p> <p>Create a Cancel Auto Renewed Quote and Subscription from CPQ Integration</p> <p>Appendix A9: Cancel Auto Renewed Quote and Subscription</p> <p>Appendix F: Retrieve OIC Integration Endpoint URL</p>	<p>Oracle CPQ 25A and Oracle CPQ 25B updates include adding renewal quote cancellation and support for order creation for system configuration models.</p>
OCT 2024	<p>Introduction</p> <p>Installing Business Accelerator (Update 24A or later)</p> <p>OIC Mapping Details (Reference Material)</p> <p>Appendix A8: Amend Order – Standard Item Workflow</p> <p>Appendix E2: OIC Integration – OSS CPQ BulkAssetUpsertFlow</p>	<p>Oracle CPQ 24D updates include new OSS CPQ BulkAssetUpsertFlow and deprecation of OSS CPQ AssetUpsertFlow.</p>
JUL 2024	<p>Introduction</p> <p>OIC Mapping Details</p>	<p>Oracle CPQ 24C updates include header mapping updates.</p>
MAR 2024	<p>Introduction</p> <p>Renewal Subscription Process Flow</p> <p>Activate the OSS CPQ CreateRenewalQuote integration</p> <p>OIC Mapping Details</p> <p>Appendix A7: Renewal Subscription Workflow</p>	<p>Oracle CPQ 24B updates.</p>

Date	What's Changed	Notes
JAN 2024	Introduction OIC Integration Installation and Setup Create a Get Sales Order Status from FOM Integration Create a Cancel a Sales Order from CPQ Integration Appendix E: CPQ-OM Status Mapping Appendix F: Retrieve OIC Integration Endpoint URL	Oracle CPQ 24A updates include removing <code>OrchestrationProcessName</code> line attribute from the standard Commerce process package.
SEPT 2023	Introduction Import Integration Package OIC Mapping Details (Reference Material) Commerce Integrations Appendix B: BMLIntroduction	Oracle CPQ 23D updates include support for rate plans.
AUG 2023	Commerce Integrations	Oracle CPQ 23C updates to Process Create Order Response (BML) section.
JUN 2023	Oracle CPQ 23C Updates	Charge Entity Support for CPQ Standard Process - Order Management Integrations
APR 12 2023	Initial Release	Oracle CPQ 23B content.

Introduction

This integration includes:

- REST-based Integration with Oracle Order Management using Oracle Integration Cloud (OIC)
- Support for pre-priced order creation and cancellation
- Asynchronous update of quote order and line status from Oracle Order Management
- The CPQ Standard Commerce Process Integration includes artifacts for CPQ and Oracle Order Management such as, Commerce Integration instance, Attributes, Actions, and associated logic.

Oracle CPQ Update 23B introduced the Commerce Standard Process with pre-defined quoting, ordering, integration, and other workflow entities. This provides a standard quote object for customers as a well-defined and functional starting point for their implementation.

- When you create a new Standard Process, it is automatically populated with standardized logic for documents, attributes, actions, rules, library functions, layouts, data columns, Commerce integrations, and workflow steps.
- The new Standard Process simplifies administrator set up for not just the Commerce Process in CPQ, it also has prebuilt artifacts for the unified Oracle end-to-end integrations flows with Oracle CX Sales and Oracle Order Management
- Beginning in Oracle CPQ 23B, the Standard Process is delivered for new Oracle CX Sales integrated site installations and is the default process when creating a new Commerce process.
- The Standard Quote Process Commerce process, included with Oracle CPQ RefApp from Update 23B onwards, is based on the new Commerce Standard Process.

Customers currently using an Oracle CPQ and Oracle Order Management integration from an update prior to Oracle CPQ 23B that want to upgrade to the Oracle CPQ 23B or later platform release, can continue to use the CPQ-Oracle Order Management Package (CPQ_FOM_Package_21B.zip) and OIC integration package (CPQFOMIntegrations_21B.par).

Oracle CPQ delivers a new CPQ-Oracle Order Management Package (CPQ_FOM_Package_<release_version>.zip) in every release from Oracle CPQ 23B onwards to support the new Commerce Standard Process released in that specific Oracle CPQ platform release.

For customers already implementing the new Commerce Standard Process (available from Oracle CPQ 23B platform release onwards) and upgrading to the latest Oracle CPQ platform release, import of the release specific CPQ-Oracle Order Management Package (CPQ_FOM_Package_<release_version>.zip) is optional. However post-upgrade if there is a need to import the CPQ-Oracle Order Management Package again, then it is recommended to use the release specific CPQ-Oracle Order Management Package that is consistent with your platform release.

Customers implementing the new Commerce Standard Process for the first time, **must** import the release specific CPQ-Oracle Order Management Package (CPQ_FOM_Package_<release_version>.zip) that is consistent with your platform release and then optionally merge their customization manually after careful planning and testing during implementation.

From Oracle CPQ 24A onwards, customers must install the new business accelerator (*Oracle CPQ - Oracle Order Management | Quote and Order Management*) available in the integration store.

Purpose

This installation guide describes how to implement the reference integration between Oracle CPQ and Oracle Order Management using order management REST APIs and OIC.

- This guide is only relevant to customers implementing the new Commerce Standard Process in Oracle CPQ 23B platform or later release. Customers can either use the *Oracle Quote to Order* Commerce process, included with the Oracle CPQ 23B RefApp or later release, or they can create a new standard process to get all the benefits of the new Commerce Standard Process.
- Customers that upgrade to the Oracle CPQ 23B platform or later release who want to integrate CPQ and Oracle Order Management using their existing Commerce process from a release prior to Oracle CPQ 23B, should refer to the [21B Oracle CPQ – Oracle Order Management Integration Guide](#).

Audience

This installation guide is intended for administrators responsible for setting up and configuring the Oracle CPQ - Order Management solution. This guide assumes administrators have prior Oracle CPQ, Oracle Order Management, and OIC administration experience.

Prerequisites

Administrators must integrate the Oracle CPQ 23B or later Standard Commerce Process with the following:

- ABO Implementation Package 23B or later
- Oracle Order Management 23B or later using OIC 20.3.3.0.0 or later middleware, which is used to establish an integration between Oracle CPQ and Oracle Order Management.
- Customer Data Management (CDM) Integration which supports account integration.
- Users can create products in the Oracle CX Sales Product Model and synchronize the products into CPQ. Likewise, they can create parts in Oracle CPQ and synchronize them into the Oracle CX Sales Product Model.

Notes:

- Administrators performing the integration installation must have administrator privileges on the Oracle CPQ, Oracle Order Management, and OIC sites.
- For information about obtaining any of the above prerequisites, contact [My Oracle Support](#).

Acronym List

Definitions of the acronyms used within this document are provided in the following table. For additional information, refer to the Oracle CPQ Administration Online Help.

- **BML** (Big Machines Extensible Language) - A scripting tool used to capture a company's complex business logic within Oracle CPQ configuration and commerce.
- **BOM** (Bill of Material) - Fulfillment systems often maintain BOMs containing complex, multi-level part structures that differ from the configuration attributes used in Oracle CPQ when sales users configure products. BOM mapping provides a data-driven mechanism for mapping these differing product views. To use the Order Management solution to create an order from an Oracle CPQ transaction, the products must be modeled as a BOM.
- **CPQ** (Configure, Price, Quote) - This Oracle solution enables companies to streamline their entire opportunity-to-quote-to-order process, including product selection, configuration, pricing, quoting, ordering, and approval workflows.
- **OM** (Order Management) - Oracle Order Management, previously known as Fusion Order management, is designed to improve order capture and fulfillment execution across the quote to cash process by providing a central order hub for multi-channel environments. The application provides the ability to capture, price and configure orders through direct order entry.
- **OIC** (Oracle Integration Cloud) - Oracle Integration Cloud Service is a cloud-based integration application designed to perform integrations between cloud-based applications – but also has capabilities that extend beyond that, to performing integrations with your on-premises applications.

- **OCC (Oracle Commerce Cloud)** - Oracle Commerce Cloud is a cloud-based SaaS platform that provides the infrastructure, tools, and features to create and manage customizable B2B and B2C storefronts, integrate with Oracle Cloud services like ERP and CX, and deliver personalized e-commerce experiences.

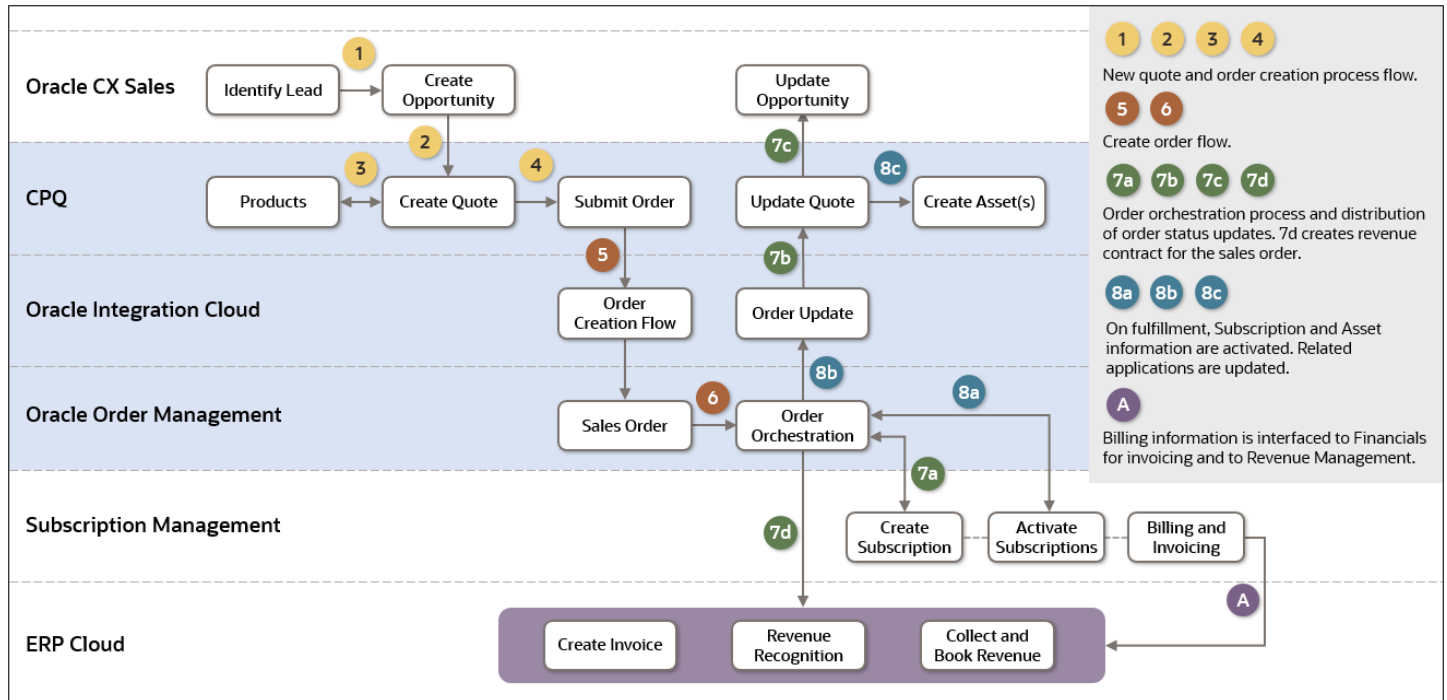
Terminology

- **Commerce Process** – an administrative object to create templates for selling processes.
- **Sales Transaction** - a runtime instance set up for quoting, ordering, approval, and other workflow processes.
- **Quote** – General term referring to a sales transaction
- **Standard Commerce Process / Standard Process / Standard Quote Process** - All refer to the standardized seeded Commerce Process that is available to all CPQ environments beginning with the Oracle CPQ Update 23B when creating a new Commerce Process.

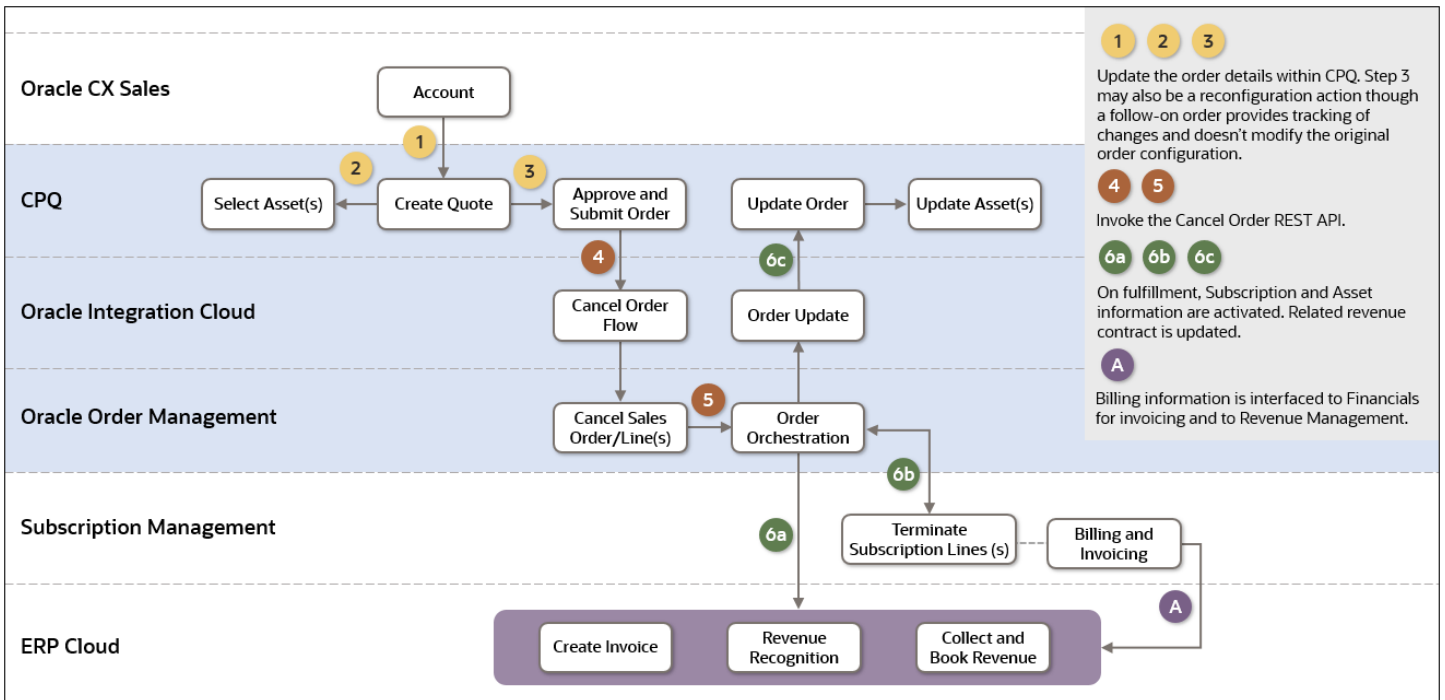
Order Flow Overview

The following images show Oracle end-to-end solution for order process flows. This integration focuses on the CPQ, Oracle Integration Cloud, and Oracle Order Management elements of this solution.

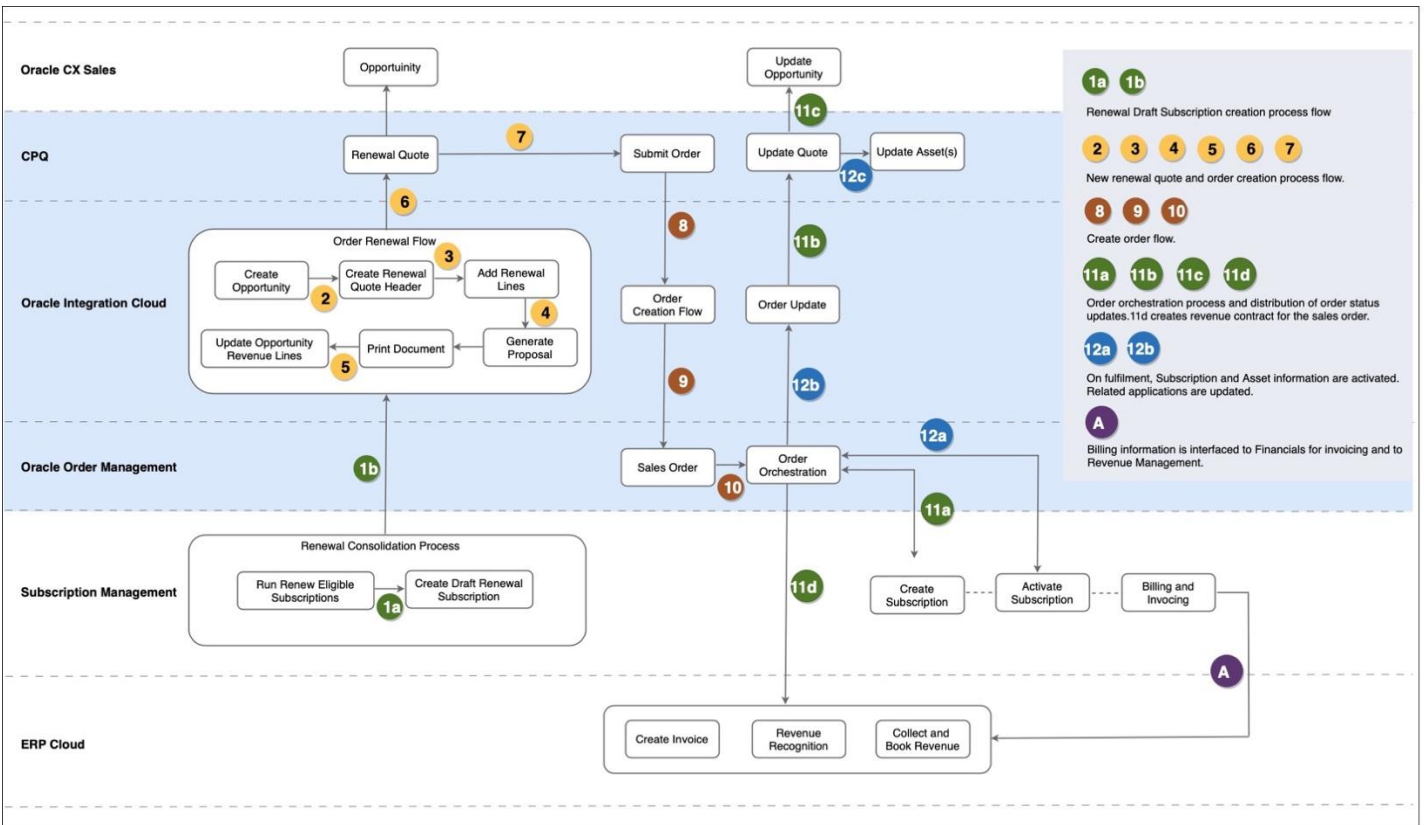
Create Order Process Flow



Cancel Order Process Flow



Renewal Subscription Process Flow



OIC Integration Installation and Setup

This section contains information about installing the new OIC business accelerator from integration store into your OIC environment and creating web service connections between Oracle CPQ and Oracle Order Management in Update 24A and later..

This section also contains information about importing the OIC Integration package into your OIC environment and creating web service connections between Oracle CPQ and Oracle Order Management in Update 23B, 23C, or 23D.

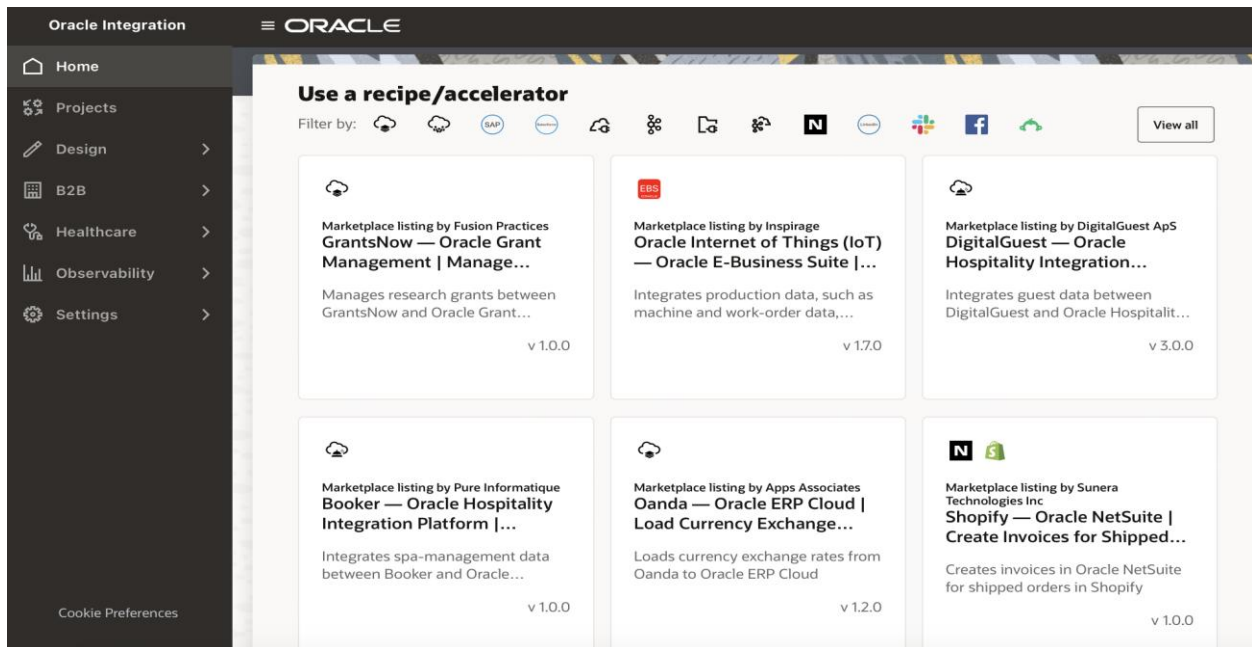
Prerequisites

- The SSL certificate of OIC environment is installed in Oracle Order Management for ERP event subscription.
- All required SSL certificates (CPQ and Order Management SSL certificates) are in the OIC environment.

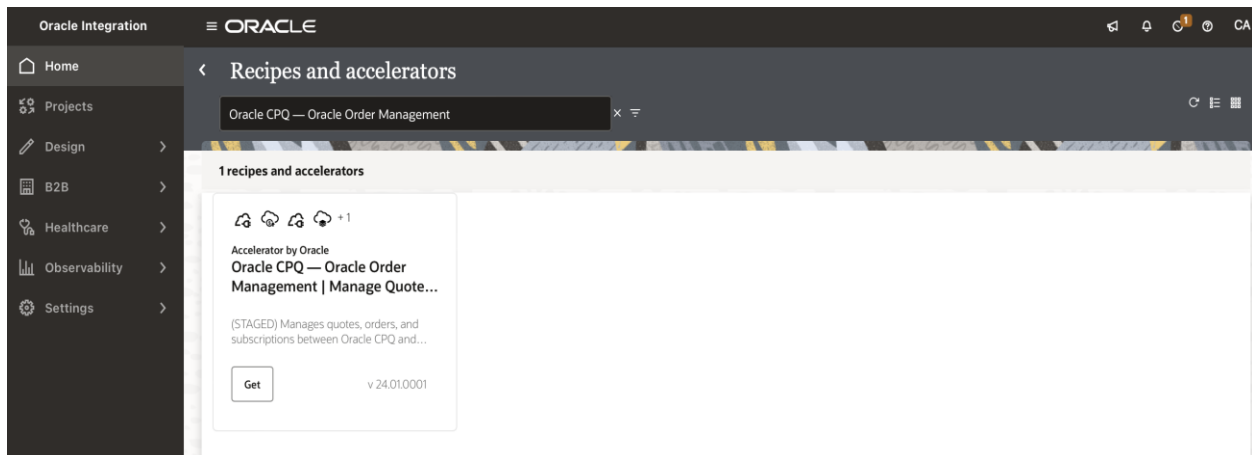
Installing Business Accelerator (Update 24A or later)

Perform the following steps to install the business accelerator into OIC.

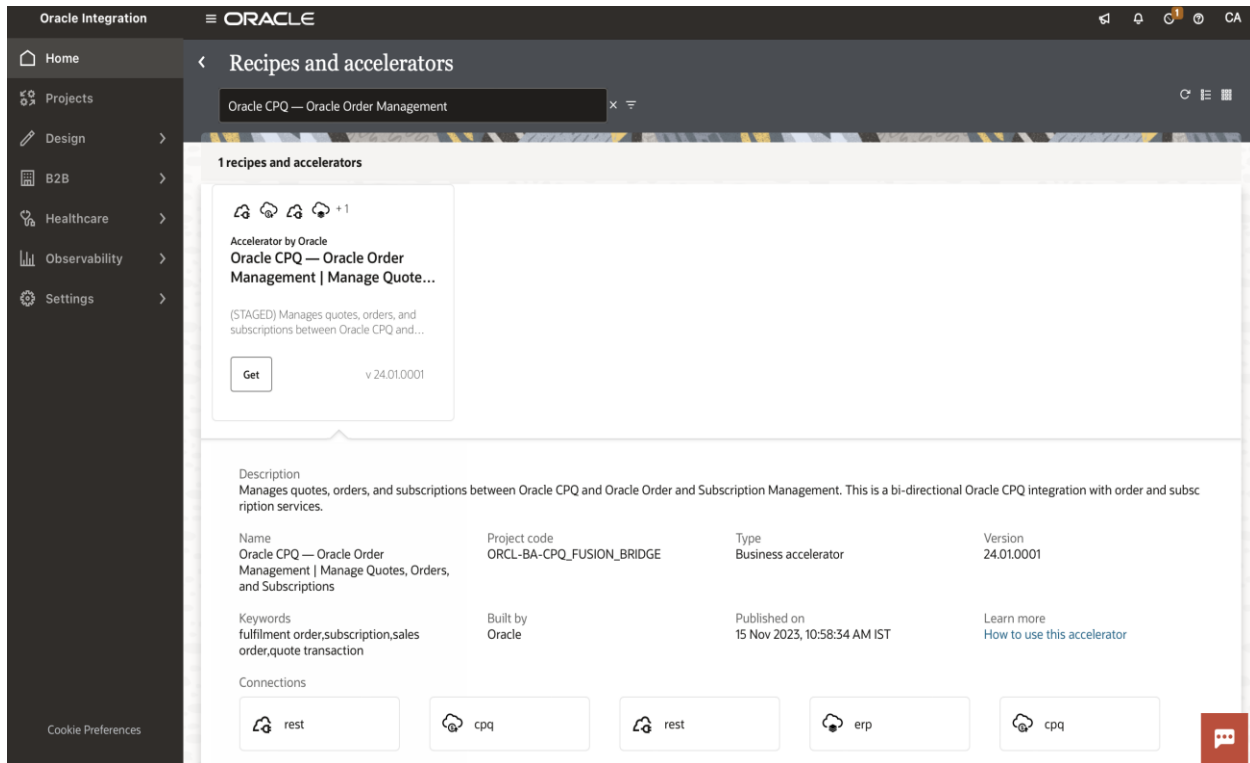
1. Log in to the OIC site as an administration user.
2. Select Home in the left side navigation panel.
3. On the Home page, in the **Use a recipe/accelerator** section, click **View all**.



4. Use the **Search** option and enter “Oracle CPQ — Oracle Order Management”.

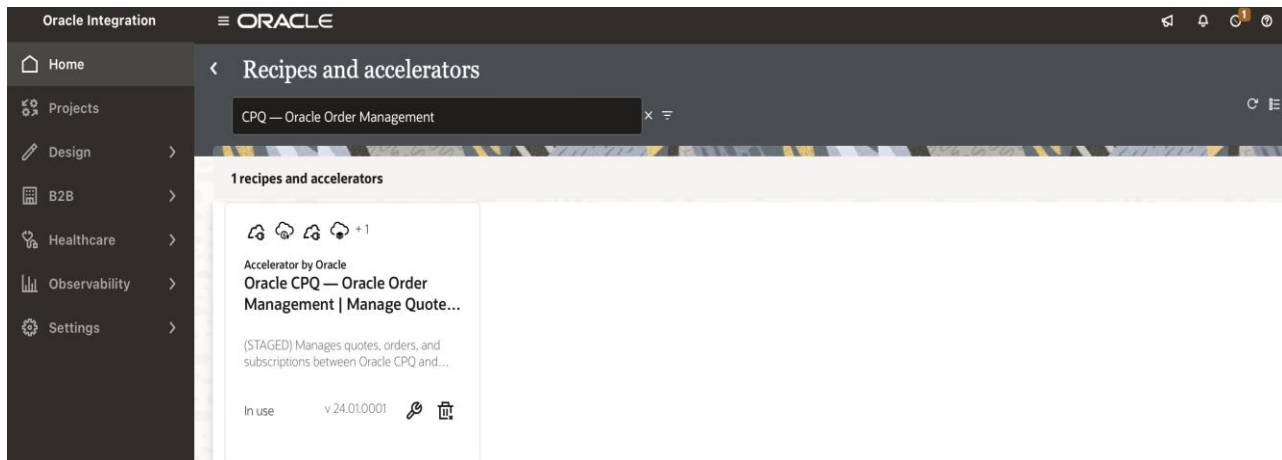


5. Hover over the card and click to verify the following business accelerator name and project code is displayed:
 - Name: Oracle CPQ —Oracle Order Management | Manage Quotes, Orders, and Subscriptions
 - Project Code: ORCL-BA-CPQ_FUSION_BRIDGE



6. Hover over the card and click on **Get** to install the business accelerator.

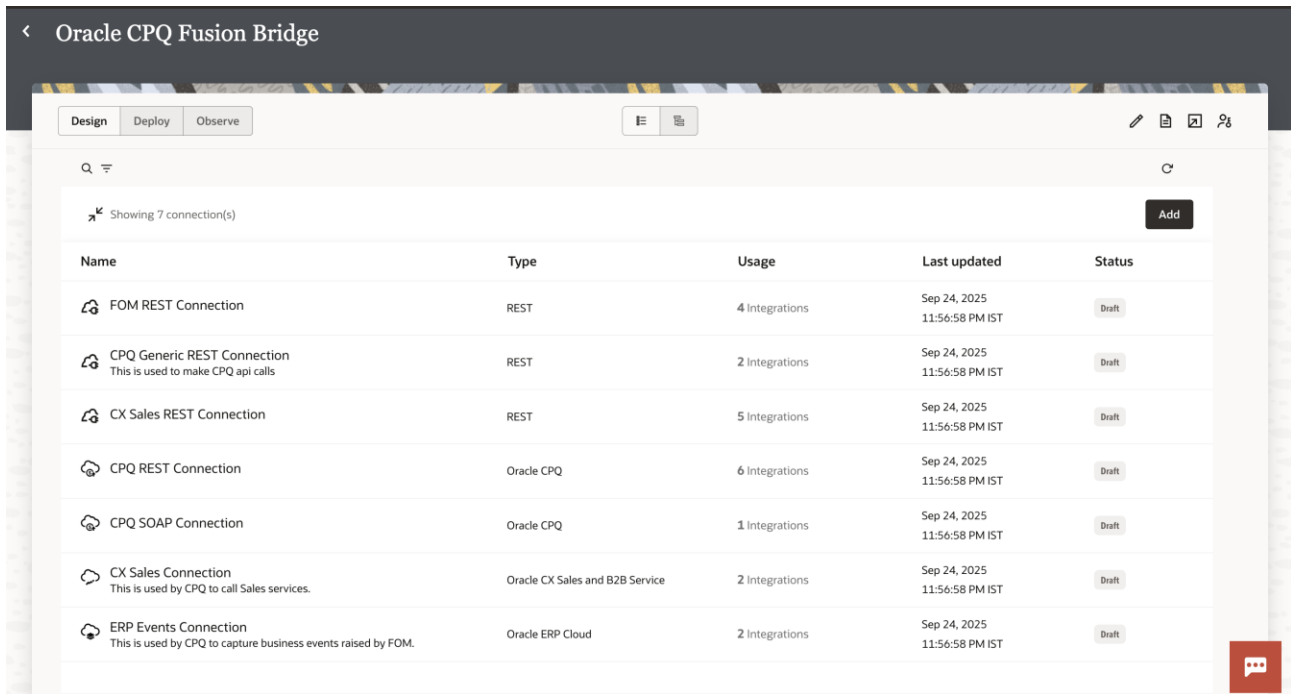
A message displays “Getting Oracle CPQ — Oracle Order Management | Manage Quotes, Orders, and Subscriptions.” Wait for few seconds and then click Refresh. The accelerator will be installed and the card displays **In use**, **Configure** and **Uninstall** options.



Note: The installation of accelerator installs the project **Oracle CPQ Fusion Bridge**. This is a single pane canvas to manage Integrations, Connections, Lookups, and Libraries.

7. Review the following to determine the appropriate Accelerator to install for your implementation:
 - If you are running Oracle CPQ 25D with **Standard ABO** enabled, you must install the 25D Accelerator. The 25D Accelerator supports Standard ABO features such as: seamless tracking of partial fulfillment of an asset, better visibility into asset order status with a new Pending status, easy-to-use user interface for mapping a custom asset attribute, etc.
 - If you are running Oracle CPQ 25D with **Package ABO**, you must install the 25C Accelerator.

8. Click on **Configure**, a Configuration Editor opens with five train stops:
 - Connections
 - Lookups
 - Libraries
 - Integrations
 - Deployments
9. Select **Connections** train stop and verify the following connections are imported:
 - FOM REST Connection
 - CPQ REST Connection
 - CPQ SOAP Connection
 - ERP Events Connection
 - CX Sales Connection
 - CX Sales REST Connection
 - CPQ Generic REST Connection
 - OCC Rest Connection



Note: CX Sales Connection and CX Sales REST Connection are introduced in 24D as part of OSS CPQ BulkAssetUpsertFlow Integration

10. Select **Lookups** train stop and verify the following lookups are imported:

- CPQ-FOM-AdjustmentTypeDVM
- CPQ-FOM-LineStatusDVM
- CPQ-FOM-PricePeriodicityDVM
- CPQ-FOM-PriceTypeDVM
- CPQ-OSS-BillingFrequencyDVM (Update 24B or later)
- CPQ-OSS-PriceTypeDVM
- CPQ-OSS-PriceTypeWithRatePlanDVM
- CPQ-FUSION-ConfigOptionsDVM
- CPQ-OSS-PricePeriodicityDVM
- OSS-CPQ-AssetStatusDVM
- CPQ-OSS-AdjustmentTypeDVM

Oracle CPQ Fusion Bridge

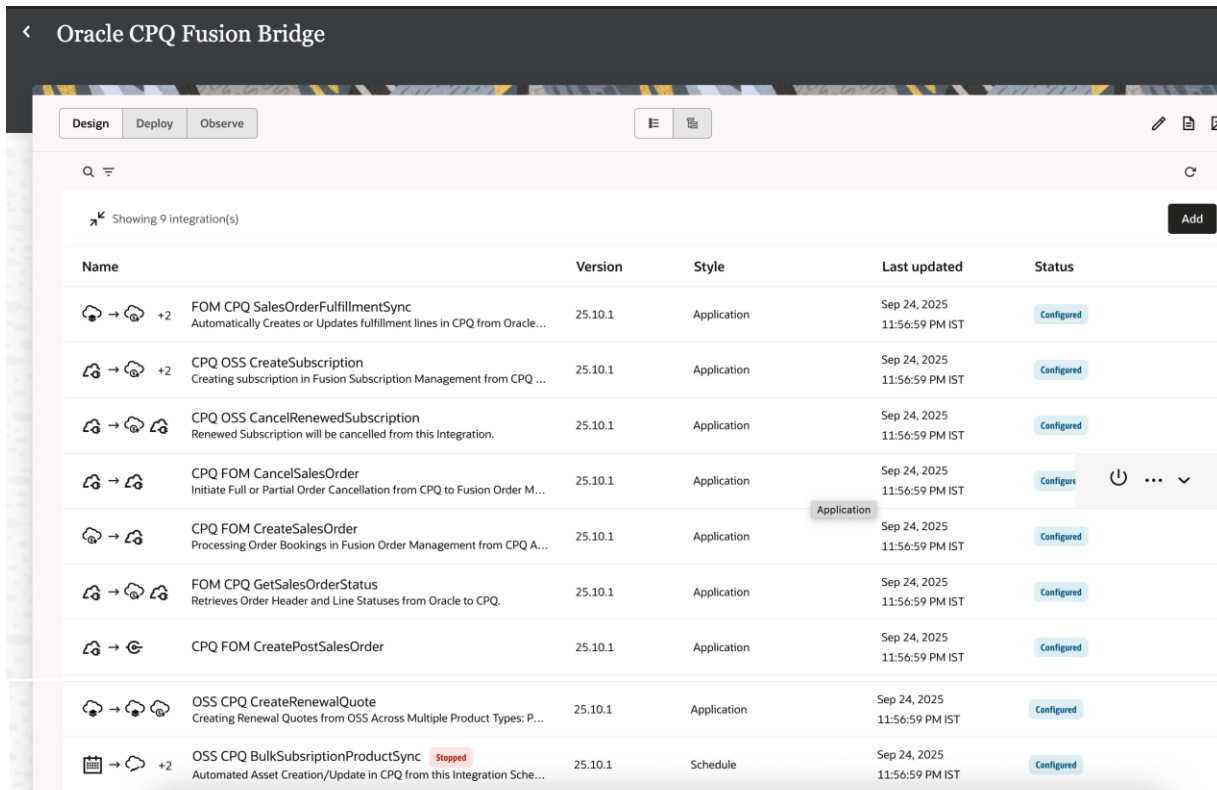
Design Deploy Observe

Showing 11 lookup(s) Add

Name	Usage	Domains	Values mapped	Last updated	Status
CPQ-OSS-PriceTypeDVM This lookup is used to map between CPQ - OSS mappings for Price Type co...	Usage 1 Integrations	2	4	Sep 24, 2025 11:56:59 PM IST	Configured
CPQ-OSS-PriceTypeWithRatePlanDVM	1 Integrations	2	4	Sep 24, 2025 11:56:59 PM IST	Configured
CPQ-FOM-PriceTypeDVM This lookup is used to map between CPQ - FOM mappings for Price Type c...	1 Integrations	2	3	Sep 24, 2025 11:56:59 PM IST	Configured
CPQ-FUSION-ConfigOptionsDVM	4 Integrations	2	5	Sep 24, 2025 11:56:59 PM IST	Configured
CPQ-FOM-PricePeriodicityDVM This lookup is used to map between CPQ - FOM mappings for Price Peri...	1 Integrations	2	2	Sep 24, 2025 11:56:59 PM IST	Configured
CPQ-OSS-PricePeriodicityDVM This lookup is used to map between CPQ - OSS mappings for Price Peri...	1 Integrations	2	2	Sep 24, 2025 11:56:59 PM IST	Configured
CPQ-FOM-AdjustmentTypeDVM This lookup is used to map between CPQ - FOM mappings for Adjustment ...	1 Integrations	2	3	Sep 24, 2025 11:56:59 PM IST	Configured
CPQ-FOM-LineStatusDVM	3 Integrations	2	17	Sep 24, 2025 11:56:59 PM IST	Configured
OSS-CPQ-AssetStatusDVM	1 Integrations	2	7	Sep 24, 2025 11:56:59 PM IST	
CPQ-OSS-BillingFrequencyDVM	1 Integrations	2	5	Sep 24, 2025 11:56:59 PM IST	Configured
CPQ-OSS-AdjustmentTypeDVM This lookup is used to map between CPQ - OSS mappings for Adjustment ...	1 Integrations	2	3	Sep 24, 2025 11:56:59 PM IST	Configured

11. Select **Integrations** and verify the following integrations are imported:

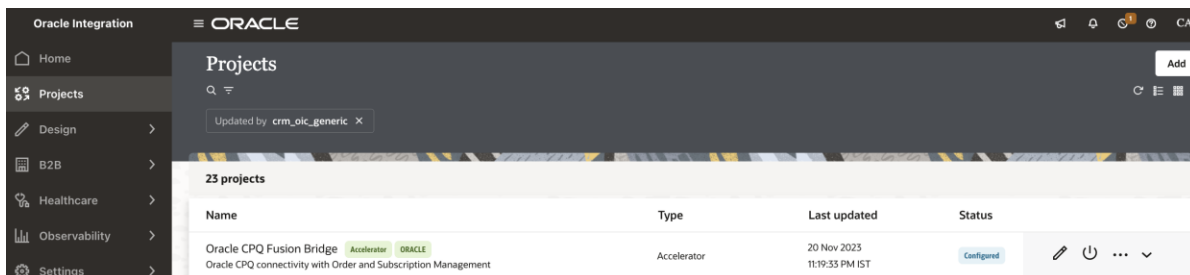
- CPQ FOM CancelSalesOrder
- CPQ FOM CreateSalesOrder
- FOM CPQ SalesOrderFulfillmentSync
- FOM CPQ GetSalesOrderStatus
- OSS CPQ CreateRenewalQuote
- CPQ OSS CreateSubscription
- CPQ OSS CancelRenewedSubscription
- OSS CPQ BulkSubscriptionProductSync
- CPQ FOM CreatePostSalesOrder



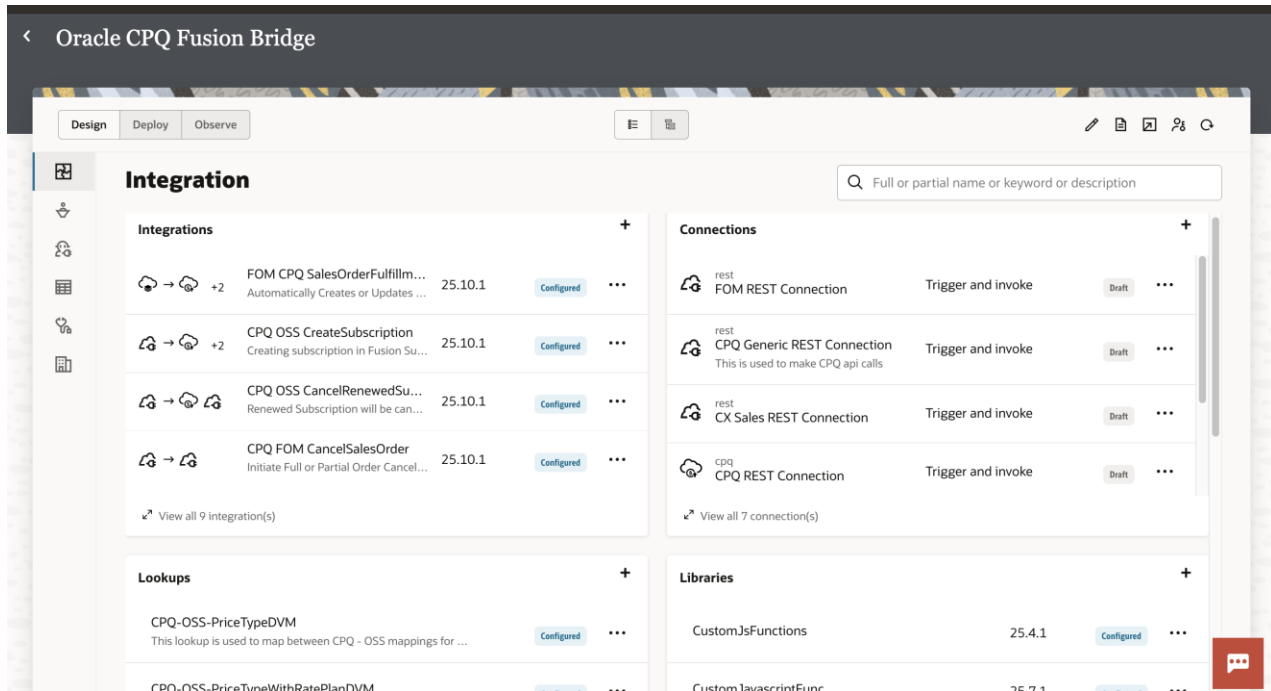
Note: OSS CPQ CreateRenewalQuote is introduced as part of 24B. OSS CPQ BulkAssetUpsertFlow integration is introduced in 24D and OSS CPQ AssetUpsertFlow is deprecated.

12. Select **Projects** in the left side navigation panel and verify the following accelerator project is imported:


- Oracle CPQ Fusion Bridge





13. Click **Oracle CPQ Fusion Bridge** Project and verify all the above verified Integrations, Connections and Lookups are available.




14. Configure the CPQ REST Connection.



- a. In the Connections Panel, click on 3 dots  and **Edit** option for the CPQ REST Connection.
- b. Enter the connection URL in the following format:


`https://<CPQ host name>/rest/<latest rest version>/metadata-catalog`
- c. Enter your CPQ administrator username and password in the corresponding fields.
- d. Click **Test** to verify the connection.
- e. Click **Save**.
- f. **Save changes?** popup with two Inactive integrations (OSS CPQ BulkAssetUpsertFlow and FOM CPQ SalesOrderStatusSync) display. Click **Save**.
- g. Click the Back icon. 
- h. Verify CPQ REST Connection is **Configured**.
- i. Click on 3 dots  again and click on the **Refresh Metadata** option for the CPQ REST Connection.

15. Configure the CPQ SOAP Connection



- a. In the Connections Panel, click on 3 dots  and Edit option for the CPQ SOAP Connection.
- b. Select **SOAP WSDL URL** for the **Connection Type**.
- c. Enter the connection URL in the following format:

`https:// <CPQ host name>/v2_0/receiver/commerce/oraclecpqo?wsdl`
- d. Enter your CPQ administrator username and password in the corresponding fields.
- e. Click **Test** to verify the connection.
- f. **Save changes?** popup with one Inactive integration (CPQ FOM CreateSalesOrder) displays. Click **Save**.

- g. Click **Save**.
 - h. Click the Back icon. 
 - i. Verify CPQ SOAP Connection is **Configured**.
 - j. Click on 3 dots  again and click on the **Refresh Metadata** option for the CPQ SOAP Connection.
16. Configure the Order Management REST Connection.


- a. In the Connections Panel, click on 3 dots  and **Edit** option for the **FOM REST Connection**.
- b. Select “restUrl” for the **Connection Type**.
- c. Select “TLSv1.2TLS” for the **Version**.
- d. Enter the connection URL in the following format:

```
https://<Order Management host name>/fscmRestApi/resources/<latest rest version>/
```



- e. Select security policy as Basic Authentication.
- f. Enter your Order Management username and password in the corresponding fields.
- g. Click **Test** to verify the connection.
- h. Click **Save**.
- i. **Save changes?** popup with three Inactive integrations (CPQ FOM CancelSalesOrder, CPQ FOM CreateSalesOrder and FOM CPQ GetSalesOrderStatus) display. Click **Save**.
- j. Click the Back icon. 
- k. Verify FOM REST Connection is **Configured**.
- l. Click on 3 dots  again and click on the **Refresh Metadata** option for the FOM REST Connection.

Note: The integration Order Management user must have appropriate roles to Create Orders using the Order Management REST APIs.


17. Configure the ERP Events Connection.

- a. In the Connections Panel, click on 3 dots  and the **Edit** option for the **ERP Events Connection**.
- b. Enter ERP Cloud Host in the following format:

```
https://<Order Management host name>
```



- c. Enter your Fusion username and password for Fusion in the corresponding fields.
- d. Click **Test** to verify the connection.
- e. **Save changes?** popup with one Inactive integration (FOM CPQ SalesOrderStatusSync) display. Click **Save**.
- f. Click **Save**.
- g. Click the Back icon. 
- h. Verify ERP Events Connection is **Configured**.
- i. Click on 3 dots  again and click on the **Refresh Metadata** option for the ERP Events Connection.

18. Configure the CX Sales REST Connection.

- a. In the Connections Panel, click on 3 dots  and **Edit** option for the **CX Sales REST Connection**.
- b. Select **REST API Base URL** for the **Connection Type**.


- c. Select **TLSv1.2** for the **Version**.
- d. Enter the connection URL in the following format:

```
https://<CX Sales host name>/crmRestApi/resources/<latest rest version>/
```



- e. Select security policy as Basic Authentication.
- f. Enter your CX sales username and password in the corresponding fields.
- g. Click **Test** to verify the connection.
- h. Click **Save**.
- i. **Save changes?** popup with one Inactive integration (OSS CPQ BulkAssetUpsertFlow) display. Click **Save**.
- j. Click the Back icon. 
- k. Verify CX Sales REST Connection is **Configured**.
- l. Click on 3 dots  again and click on the **Refresh Metadata** option for the **CX Sales REST Connection**.

Note: CX Sales REST Connection is introduced in 24D.

19. Configure the CX Sales Connection.


- a. In the Connections Panel, click on 3 dots  and the **Edit** option for the **CX Sales Connection**.
- b. Enter CX Sales Host in the following format:

```
https://<CX Sales host name>
```


- c. Enter your CX Sales and password for Fusion in the corresponding fields.
- d. Click **Test** to verify the connection.
- e. **Save changes?** popup with one Inactive integration (OSS CPQ BulkAssetUpsertFlow) display. Click **Save**.
- f. Click **Save**.
- g. Click the Back icon. 
- h. Verify CX Sales Connection is **Configured**.
- i. Click on 3 dots  again and click on the **Refresh Metadata** option for the **CX Sales Connection**.


Note: CX Sales Connection Connection is introduced in 24D.


20. Configure CPQ Generic REST Connection

- a. In the Connections Panel, click on 3 dots  and **Edit** option for the **CPQ Generic REST Connection**.
- b. Enter the connection URL in the following format:

```
https://<CPQ host name>/rest/<latest rest version>
```

- c. Enter your CPQ administrator username and password in the corresponding fields.
- d. Click **Test** to verify the connection.
- e. Click **Save**.
- f. **Save changes?** popup with two Inactive integrations (FOM CPQ SalesOrderFulfillmentSync and CPQ OSS CreateSubscription) display. Click **Save**.
- g. Click the Back icon. 
- h. Verify CPQ REST Connection is **Configured**.



- i. Click on 3 dots  again and click on the **Refresh Metadata** option for the CPQ REST Connection.
21. Configure the OCC Rest Connection.

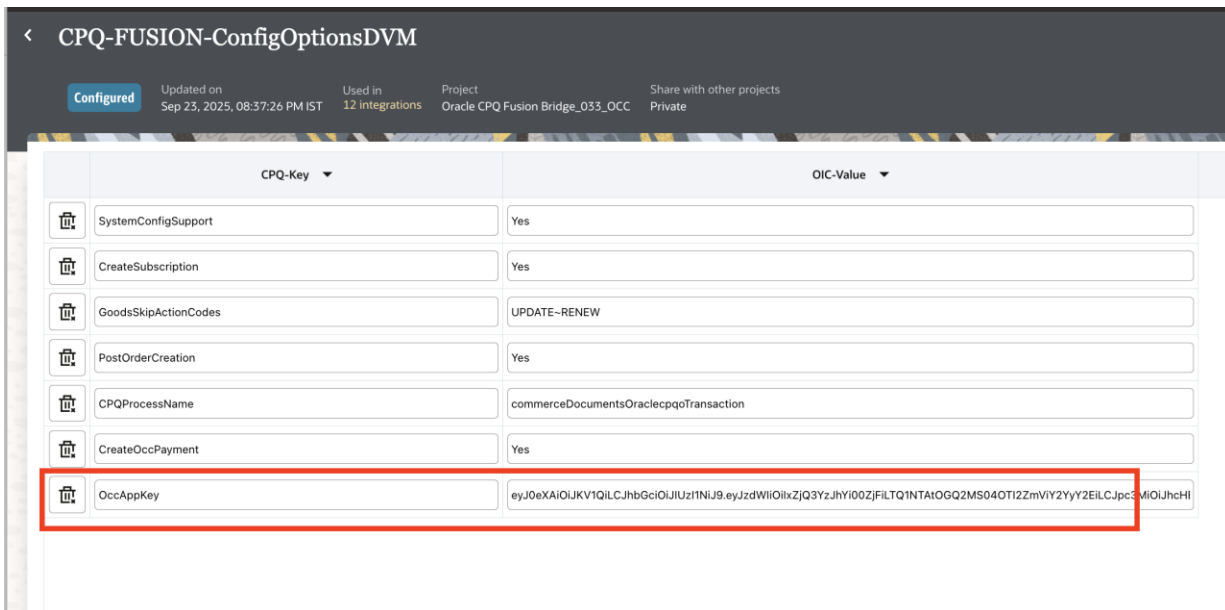
- a. In the Connections Panel, click on 3 dots  and the **Edit** option for the **OCC Rest Connection**.
- b. Enter OCC Host in the following format:








`https://<OCC host name>/ccapp/v1`

Note: If you are not integrated with Oracle Commerce Cloud, then enter the Order Management Host Name to configure this connection.

`https://<Order Management host name>`

- c. Security option we need to keep “No Security Policy” option.
- d. Click **Test** to verify the connection.
- e. **Save changes?** popup with one Inactive integration (CPQ FOM CreateSalesOrder) display. Click **Save**.
- f. Click **Save**.
- g. Click the Back icon. 
- h. Verify OCC Rest Connection is **Configured**.
- i. Click on 3 dots  again and click on the **Refresh Metadata** option for the **OCC Rest Connection**.
- j. Based on your implementation, determine your next step:
 - o If your Oracle CPQ implementation **is not** integrated with OCC, continue to the next step (Step 22).
 - o If your implementation has Oracle CPQ integrated with OCC, go to lookup “CPQ-FUSION-ConfigOptionsDVM” and for “OccAppKey” enter Appkey as shown below.





	CPQ-Key	OIC-Value
	SystemConfigSupport	Yes
	CreateSubscription	Yes
	GoodsSkipActionCodes	UPDATE-RENEW
	PostOrderCreation	Yes
	CPQProcessName	commerceDocumentsOraclecpqTransaction
	CreateOccPayment	Yes
	OccAppKey	eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJzdWUiOiIiZjQ3YzZlJmY2YyY2EiLCJpc3MiOiJhcHI

To get the appkey, refer to the Oracle Commerce > Extending Oracle Commerce> [Register applications](#) documentation.





Note: CX Sales Connection Connection is introduced in 25D.

22. Activate the CPQ FOM CancelSalesOrder integration.

- a. In the Integrations Panel, click on 3 dots  and **Activate** option for the CPQ FOM CancelSalesOrder integration.
- b. Select **tracing level**.
- c. Click on **Activate**.
- d. Click on the **Refresh**  icon and verify CPQ FOM CancelSalesOrder integration is **Active**.





Note: Oracle recommends that the **Enable Tracing** when activating an integration. This captures valuable troubleshooting information that may be useful in case of a failed integration run or instance.

23. Activate the CPQ FOM CreateSalesOrder integration.


- a. In the Integrations Panel, click on 3 dots  and **Refresh endpoints** option for the CPQ FOM CreateSalesOrder integration.
- b. Select **CPQ SOAP Connection** and click on **Refresh** button.
- c. Click **Close**.
- d. Click on **Refresh**  icon and verify CPQ FOM CancelSalesOrder integration is **Locked**.
- e. Wait approximately one minute to verify CPQ FOM CancelSalesOrder integration is **Refresh successful**.
- f. In the Integrations Panel, click on 3 dots  and **Activate** option for the CPQ FOM CreateSalesOrder integration.
- g. Select **tracing level**.
- h. Click on **Activate**.
- i. Click on **Refresh**  icon and verify CPQ FOM CreateSalesOrder integration is **Active**.

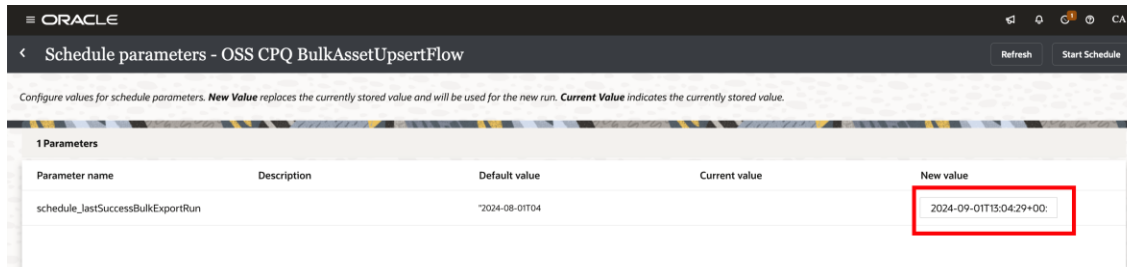
Note: Oracle recommends that the **Enable Tracing** when activating an integration. This captures valuable troubleshooting information that may be useful in case of a failed integration run or instance.





24. Activate the **OSS CPQ BulkSubsriptionProductSync** integration.

- a. In the Integrations Panel, click on 3 dots  and the **Refresh endpoints** option for the OSS CPQ BulkSubsriptionProductSync integration.
- b. Select **CX Sales Connection** and click the **Refresh** button.
- c. Click **Close**.
- d. Click on the **Refresh**  icon and verify OSS CPQ BulkSubsriptionProductSync is **Locked**.
- e. Wait for approximately one minute to verify OSS CPQ BulkSubsriptionProductSync integration is **Refresh successful**.
- f. In the Integrations Panel, click on 3 dots  and the **Activate** option for the OSS CPQ BulkSubsriptionProductSync integration.
- g. Select **tracing level**.
- h. Click on **Activate**.
- i. Click on the **Refresh**  icon and verify **OSS CPQ BulkSubsriptionProductSync** integration is **Active**.

Note: Oracle recommends that the **Enable Tracing** when activating an integration. This captures valuable troubleshooting information that may be useful in case of a failed integration run or instance.



- j. In the Integrations Panel, click on 3 dots  and the **Schedule** option for the OSS CPQ BulkAssetUpsertFlow integration.
- k. Click on **Start** button.
- l. Click on **Confirm** button.
- m. Provide the Date value in “New Value” field from which date the CPQ Asset sync should happen. (eg: 2024-09-01T13:04:29+00:00) as shown below.



- n. Click on the **Start Schedule** button.
25. Activate the FOM CPQ SalesOrderFulfillmentSync integration.
- a. In the Integrations Panel, click on 3 dots  and the **Refresh endpoints** option for the FOM CPQ SalesOrderFulfillmentSync integration.
 - b. Select **ERP Events Connection** and click the **Refresh** button.
 - c. Click **Close**.
 - d. Click on the **Refresh**  icon and FOM CPQ SalesOrderFulfillmentSync is **Locked**.
 - e. Wait approximately one minute to verify the FOM CPQ SalesOrderFulfillmentSync integration is **Refresh successful**.
 - f. In the Integrations Panel, click on 3 dots  and the **Activate** option for the FOM CPQ SalesOrderFulfillmentSync integration.
 - g. Select **tracing level**.
 - h. Click **Activate**.
 - i. Click on the **Refresh**  icon and verify FOM CPQ SalesOrderFulfillmentSync integration is **Active**.





Note: Oracle recommends that the **Enable Tracing** when activating an integration. This captures valuable troubleshooting information that may be useful in case of a failed integration run or instance.

26. Activate the FOM CPQ GetSalesOrderStatus integration.

- a. In the Integrations Panel, click on 3 dots  and the **Activate** option for the FOM CPQ GetSalesOrderStatus integration.
- b. Select **tracing level**.
- c. Click **Activate**.
- d. Click on the **Refresh**  icon and verify FOM CPQ GetSalesOrderStatus integration is **Active**.

Note: Oracle recommends that the **Enable Tracing** when activating an integration. This captures valuable troubleshooting information that may be useful in case of a failed integration run or instance.

27. Activate the OSS CPQ CreateRenewalQuote integration.

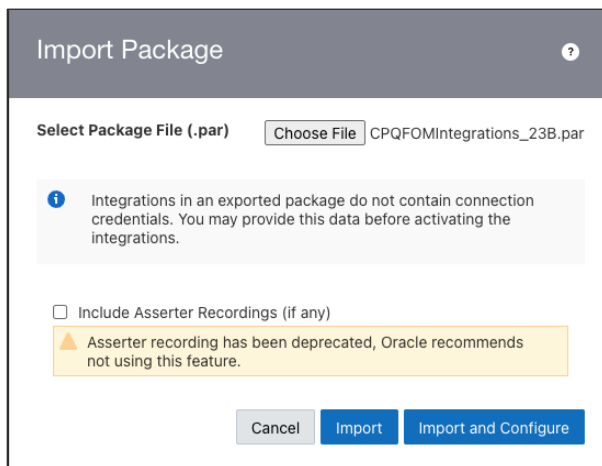
- a. In the Integrations Panel, click on 3 dots  and the **Refresh endpoints** option for the OSS CPQ CreateRenewalQuote integration.
- b. Select **ERP Events Connection** and click the **Refresh** button.
- c. Click **Close**.
- d. Click on the **Refresh**  icon and verify OSS CPQ CreateRenewalQuote is **Locked**.
- e. Wait for approximately one minute to verify OSS CPQ CreateRenewalQuote integration is **Refresh successful**.
- f. In the Integrations Panel, click on 3 dots  and the **Activate** option for the OSS CPQ CreateRenewalQuote integration.
- g. Select tracing level.
- h. Click on **Activate**.
- i. Click on the **Refresh**  icon and verify OSS CPQ CreateRenewalQuote integration is **Active**.

Note: Oracle recommends that the **Enable Tracing** when activating an integration. This captures valuable troubleshooting information that may be useful in case of a failed integration run or instance.

Import Integration Package (Update 23B, 23C, or 23D)

Perform the following steps to import the OIC integration package into OIC.

1. Log in to the OIC site as an administration user.
2. Select **Integrations** in the left side navigation panel, and then select **Packages**.
3. Click **Import**.
4. Click **Choose File**, and then select the CPQFOMIntegrations_<release_version>.par package, where <release_version> refers to the release being implemented.



5. Click **Import and Configure**.
6. Select **Integrations** in the left side navigation panel, verify the following integrations have been imported:
 - CancelSOFromCPQ
 - CreateSOFromCPQ
 - GetSOStatusFromFOM
 - UpdateSOStatusFromFOM
 - UpdateSubStatusFromOSS

Oracle Integration - Integrations

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Updated By: oic.cpq

Name	Version	Style	Last Updated	Status
GetSOStatusFromFOM Gets Order Header Status and Order Lines Status and update it in CPQ.	2.0.0	App Driven Orchestration	Mar 15th, 2023 03:54:07 PM PDT	Configured
CreateSOFromCPQ	2.0.0	App Driven Orchestration	Mar 15th, 2023 03:54:07 PM PDT	Configured
CancelSOFromCPQ Place cancellation request for whole order or selected line item from CPQ to F...	2.0.0	App Driven Orchestration	Mar 15th, 2023 03:54:07 PM PDT	Configured
UpdateSOStatusFromFOM Updates line status in CPQ when triggered by FOM Business Events.	2.0.0	App Driven Orchestration	Mar 15th, 2023 03:54:06 PM PDT	Configured
UpdateSubStatusFromOSS Updates subscription line status in CPQ when triggered by OSS Business Even...	2.0.0	App Driven Orchestration	Mar 15th, 2023 03:54:06 PM PDT	Configured

7. Select **Connections** in the left side navigation panel, verify the following connections have been imported:

- CPQ REST Connection
- CPQ SOAP Connection
- ERP Events Connection
- FOM REST Connection

Oracle Integration - Connections

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Name	Type	Usage	Last Updated	Status
CPQ SOAP Connection	Oracle CPQ	1 Integrations	Feb 2nd, 2021 07:14:52 AM CST	Draft
FOM REST Connection	REST	3 Integrations	Feb 2nd, 2021 07:14:51 AM CST	Draft
CPQ REST Connection CPQ REST Connection	Oracle CPQ	1 Integrations	Feb 2nd, 2021 07:14:49 AM CST	Draft
ERP Events Connection	Oracle ERP Cloud	1 Integrations	Feb 2nd, 2021 07:14:49 AM CST	Draft

8. Select **Lookups** in the left side navigation panel, verify the following lookups have been imported:

- CPQ-FOM-AdjustmentTypeDVM
- CPQ-FOM-ChargeDefinitionDVM (Oracle CPQ 23C and earlier only)
- CPQ-FOM-LineStatusDVM
- CPQ-FOM-PricePeriodicityDVM
- CPQ-FOM-PriceTypeDVM

The screenshot shows the Oracle Integration 'Lookups' page. The left sidebar contains navigation options: Integrations, Connections, Lookups, Packages, Agents, Adapters, and Libraries. The main content area displays a table of lookups with the following data:

Name	Usage	Domains	Values Mapped	Last Updated	Status
CPQ-FOM-PriceTypeDVM This lookup is used to map between CPQ - FOM mappings for Price Type codes	1 Integrations	2	3	Feb 23rd, 2023 05:34:40 PM PST	
CPQ-FOM-PricePeriodicityDVM This lookup is used to map between CPQ - FOM mappings for Price Periodicity cod...	1 Integrations	2	2	Feb 23rd, 2023 05:34:40 PM PST	Configured
CPQ-FOM-ChargeDefinitionDVM Charge definition names to charge codes	1 Integrations	2	5	Sep 13th, 2022 02:27:52 PM PDT	Configured
CPQ-FOM-LineStatusDVM	5 Integrations	2	14	Sep 13th, 2022 02:27:52 PM PDT	Configured

9. Configure the CPQ REST Connection.

- Click the Edit icon for the **CPQ REST Connection**.
- Enter the connection URL in the following format:

```
https://<CPQ host name>/rest/<latest rest version>/metadata-catalog
```

- Enter your CPQ administrator username and password in the corresponding fields.
- Click **Test** to verify the connection.
- Click **Save**.
- Click the Back icon.

10. Configure the CPQ SOAP Connection

Note: The out-of-the-box Oracle Business Accelerator is designed to function exclusively with the WSDL endpoint located at `/commerce/oraclecpqo?wsdl`. For the standard process, the designated process name is `oraclecpqo`.

- Click on the Edit icon for the **CPQ SOAP Connection**.
- Select “SOAP WSDL URL” for the **Connection Type**.
- Enter the connection URL in the following format:

```
https:// <CPQ host name>/v2_0/receiver/commerce/oraclecpqo?wsdl
```


- Enter your CPQ administrator username and password in the corresponding fields.
- Click **Test** to verify the connection.
- Click **Save**.
- Click the Back icon.

11. Configure the Order Management REST Connection.


- Click the Edit icon for the **FOM REST Connection**.
- Select “restUrl” for the **Connection Type**.
- Select “TLSv1.2TLS” for the **Version**.
- Enter the connection URL in the following format.

```
https://<Order Management host name>/fscmRestApi/resources/<latest rest version>/
```


- Select security policy as Basic Authentication.
- Enter your Order Management username and password in the corresponding fields.

- g. Click **Test** to verify the connection.
- h. Click **Save**.
- i. Click the Back icon. 

Note: The integration Order Management user should have appropriate roles to Create Orders using the Order Management REST APIs.

12. Configure the ERP Events Connection.
 - a. Click the Edit icon  for the **ERP Events Connection**.
 - b. Enter ERP Cloud Host in the following format:

```
https://<Order Management host name>
```

- c. Enter your Fusion username and password for Fusion in the corresponding fields.
 - d. Click **Test** to verify the connection.
 - e. Click **Save**.
 - f. Click the Back icon. 
13. On the configuration editor page, click activate for each integration to activate all integrations.

Notes:

- If an integration with the same name already exists in the OIC environment, deactivate the integration before replacing it.
- Oracle recommends that the **Enable Tracing** and **Include Payload** options are selected when activating an integration. This captures valuable troubleshooting information that may be useful in case of a failed integration run or instance.

OIC Mapping Details (Reference Material)

This section contains the OIC mapping details of the Order Management payload and Oracle CPQ attributes.

Note: The OIC Mapping Details section is provided for reference, no action is required to implement the attribute mapping. Attribute mapping is automatically set up when the CPQFOMIntegrations_<release_version>.par package is imported in OIC.

Header Attribute Mapping

Order Management Attribute	Mapped to CPQ Attribute	Comments
BuyingPartyContactFirstName	_customer_t_first_name	Removed in 24C
BuyingPartyContactLastName	_customer_t_last_name	Removed in 24C
BuyingPartyName	_s_soldToPartyID_t	CPQ Attribute Name has been changed from accountPartyId_t to _s_accountPartyId_t in CPQ Update 23D Changed from accountPartyId to _s_soldToPartyID_t in CPQ Update 24C
FreezePriceFlag	freezePriceFlag_t	
FreezeShippingChargeFlag	freezePriceFlag_t	
FreezeTaxFlag	freezePriceFlag_t	
PartialShipAllowedFlag	oRCL_ERP_PartialShipAllowed_t	
PaymentTerms	paymentTerms_t	
RequestingBusinessUnitName	businessUnitName_t	
RequestingBusinessUnitId	businessUnitId_t	
SourceTransactionId	bs_id	
SourceTransactionNumber	transactionID_t	
SourceTransactionSystem	transactionSourceSystem_t	
TransactionOn	orderDate_t	
TransactionalCurrencyCode	currency_t	
billToCustomer - AccountNumber	invoiceToPartyID_t OR accountPartyId_t	If invoiceToPartyID_t is not null then invoiceToPartyID_t else accountPartyId_t CPQ Attribute Name has been changed from accountPartyId_t to _s_accountPartyId_t in CPQ release 23D Removed in 24C
billToCustomer - CustomerAccountID	_s_billToCustomerAccountID_t	
billToCustomer - SiteUseId	billToSiteUseId_t	
shipToCustomer - PartyName	_shipTo_t_company_name	
shipToCustomer - PartyId	_s_shipToPartyID_t	
shipToCustomer - SiteId	_s_shipToPartySiteID_t	
CustomerPONumber	purchaseOrderNumber_t	Added as part of 25A changes

Line Attribute Mapping

Order Management Attribute	Mapped to CPQ Attribute	Comments
RequestedRatePlanId	_price_applied_ratePlan_integrationId	Applied Rate Plan Integration Id added in CPQ Release 23D
OrchestrationProcessName	CustomDOOO_PauseforShipSubscriptionProcesses	(Optional field) Refer to the Order Management Setup section for Process name. Removed in CPQ Release 24C
EndCreditMethodCode	changeCode_1	When oRCL_ABO_ActionCode_1 = 'TERMINATE' 24D Change: or aBO_Delta_Action_Code_1 = 'UPDATE'
EndDate	ContractEndDate_1 requestDate_1	When oRCL_ABO_ActionCode_1 = 'TERMINATE' 25D Change: oRCL_ABO_ActionCode_1 = 'TERMINATE' or 'DELETE'
EndReasonCode	changeReason_1	When oRCL_ABO_ActionCode_1 = 'TERMINATE' 24D Change: or aBO_Delta_Action_Code_1 = 'UPDATE' 25D Change: or aBO_Delta_Action_Code_1 = 'DELETE'
associatedProductReferences - SourceLineId	associatedLineId_1	Applicable only for Subscription Lines with Associations
associatedProductReferences - SourceOrderId	associatedOrderId_1	Applicable only for Subscription Lines with Associations
associatedProductReferences - SourceOrderSystem	transactionSourceSystem_t	Applicable only for Subscription Lines with Associations
SubscriptionProfileId	subscriptionProfileId_t	Applicable only for Subscription Lines
externalAssetReference - ExternalAssetKey ExternalRootParentAssetKey SubscriptionProductPuid	itemInstanceId_1 rootAssetKey_1 _s_prevSubscriptionProductPuid_1	Applicable only for Subscription Lines 25D added attributes

Order Management Attribute	Mapped to CPQ Attribute	Comments
renewSubscriptionReference - SubscriptionProductPuid	_s_prevSubscriptionProductPuid_1	Applicable only for renew Subscription Lines 25D added attributes
amendSubscriptionReferences - SubscriptionProductPuid	_s_prevSubscriptionProductPuid_1	Added as part of 24D changes: Applicable only for amend Subscription Lines 25D added attributes
ActionTypeCode	'ORA_AMEND' OR 'ORA_END' OR 'ORA_RENEW' OR 'ORA_ADD'	When aBO_Delta_Action_Code_1 = UPDATE' Added as part of 24D When oRCL_ABO_ActionCode_1 = 'TERMINATE' When (Added as part of 25D) oRCL_ABO_ActionCode_1 = 'DELETE' then 'ORA_END' When oRCL_ABO_ActionCode_1 = 'RENEW' then 'ORA_RENEW' Else 'ORA_ADD'
CancelReasonCode		
ContractEndDate	contractEndDate_1	
ContractStartDate	contractStartDate_1	
OrderedQuantity	_price_quantity	
OrderedUOMCode	requestedUnitOfMeasure_1	In 23C, if requestedUnitOfMeasure_1 is null, then default value is set to "Ea"
ParentSourceTransactionLineId	parentDocNumber_1	
PartialShipAllowedFlag	oRCL_ERP_PartialShipAllowed_t	
ProductNumber	_part_number OR _model_name	In 23D, this mapping has been changed as follows: "_line_bom_part_number" will be mapped if it is not empty OR "_model_variable_name"

Order Management Attribute	Mapped to CPQ Attribute	Comments
RequestedFulfillmentOrganizationCode	fulfillmentOrganizationCode_1	Removed in 25A
RequestedFulfillmentOrganizationId	fulfillmentOrganizationCode_1	Added in 25A
RequestedShipDate	requestShipDate_1	
SourceScheduleNumber	_document_number	
SourceTransactionLineId	_document_number	
SourceTransactionLineNumber	_document_number	
SourceTransactionScheduleId	_document_number	
TransactionCategoryCode	'RETURN'	When oRCL_ABO_ActionCode_1 = 'TERMINATE'
coveredProductReferences - SourceLineNumber	_s_coverageLineNumber	Added in 23D but is for future use Applicable only for Coverage Lines
coveredProductReferences - SourceOrderNumber CoveredFulfillLineId	_s_coverageOrderNumber _s_coveredItemFulfillmentLineId_1	Added in 23D but is for future use Applicable only for Coverage Lines Added attributes in 25D
UnitListPrice	listPrice_1	Added as part of 25A changes
UnitSellingPrice	netPrice_1	Added as part of 25A changes
ShipSetName	_shipping_shippingGroupId_1	Added as part of 25A changes
ShippingCarrier	_shipping_shipCarrierName_1	Added as part of 25A changes
ShippingInstructions	_shipping_shippingInstructions_1	Added as part of 25A changes
ShippingModeCode	_shipping_shipModeOfTransport_1	Added as part of 25A changes
ShippingServiceLevelCode	_shipping_shippingServiceLevel_1	Added as part of 25A changes
originalOrderReference OriginalFulfillLineId	_s_originalFulfillmentLineId_1	Added as part of 25D changes
shipToCustomer.PartyId shipToCustomer.SiteId	_shipping_shipToPartyId_1 _shipping_shipToPartySiteId_1	Added as part of 25A changes

Charge Attribute Mapping

Order Management Attribute	Mapped to CPQ Attribute	Comments
ApplyTo	oRCL_applyTo	
ChargeCurrencyCode	currency_t	
ChargeDefinitionCode	oRCL_chargeName	Uses OIC lookup CPQ-FOM-ChargeDefinitionDVM for domain value map. The value should match with the Order Management Pricing Charge Definition code. In 23D, mapping changed to “_s_oRCL_chargeDefIntegrationId”
ChargeTypeCode	oRCL_chargeType	CPQ Attribute Name has been changed from oRCL_chargeType to _s_oRCL_chargeType in CPQ release 23C
PricePeriodicityCode	pricePeriod_1	In CPQ release 23C, the CPQ attribute mapping has been changed to _s_oRCL_pricePeriod Applicable only when priceType_1 = ‘Recurring’ or ‘Usage’. Uses OIC lookup CPQ-FOM- PricePeriodicityDVM for domain value map.
PriceTypeCode	priceType_1	In CPQ release 23C, the CPQ attribute mapping has been changed to _s_oRCL_priceType Uses OIC lookup CPQ-FOM- PriceTypeDVM for domain value map. Default value is “One Time”
PricedQuantity	_price_quantity	
PrimaryFlag	oRCL_primaryCharge	
RollupFlag	rollupFlag_1	
SequenceNumber	oRCL_chargeSequenceNumber	
SourceChargeId	oRCL_chargeName	

Charge Attribute Mapping for List and Net Prices

In Fusion Order Management, Create Order payload, List Price and Net Price are wrapped in chargeComponents.

Order Management Attribute	Mapped to CPQ Attribute 23B	Comments
ChargeCurrencyCode	currency_t	
ChargeCurrencyUnitPrice	oRCL_listPrice or oRCL_netPrice	
HeaderCurrencyCode	currency_t	
HeaderCurrencyDurationExtendedAmount	oRCL_contractListValue or oRCL_contractNetValue	
HeaderCurrencyExtendedAmount	oRCL_listAmount or oRCL_netAmount	
HeaderCurrencyUnitPrice	oRCL_listPrice or oRCL_netPrice	
PriceElementCode	QP_LIST_PRICE or QP_NET_PRICE	
PriceElementUsageCode	LIST_PRICE or NET_PRICE	
RollupFlag	False	
SequenceNumber	'1' for List Price, '2' for Net Price	
SourceChargeComponentId	oRCL_chargeName-C1 for List Price, oRCL_chargeName-C2 for Net Price	Unique charge component Id generated using charge name.

Charge Attribute Mapping for Adjustments

In Fusion Order Management, Create Order payload, Discounts (Adjustments) are wrapped in chargeComponents.

Order Management Attribute	Mapped to CPQ Attribute	Comments
ChargeCurrencyCode	currency_t	
ChargeCurrencyUnitPrice	oRCL_customDiscountAmount	
HeaderCurrencyCode	currency_t	
HeaderCurrencyDurationExtendedAmount	oRCL_contractDiscountAmount	
HeaderCurrencyExtendedAmount	oRCL_discountAmount	
HeaderCurrencyUnitPrice	oRCL_customDiscountAmount	
PriceElementCode	'QP_CUSTOM_ADJUSTMENT'	
PriceElementUsageCode	PRICE_ADJUSTMENT	
RollupFlag	False	
SequenceNumber	3	
SourceChargeComponentId	oRCL_chargeName-C3	Unique charge component Id generated using charge name.
Explanation	Auto adjustment	

Charge Attribute Mapping for Adjustments from Prorated Order Discounts

In Fusion Order Management, Create Order payload, Discounts (Adjustments) from order level discounts (prorated order discounts) are wrapped in chargeComponents. The Charge Attribute Mapping for Adjustments from Prorated Order Discounts attributes were added in Oracle CPQ 25A.

Order Management Attribute	Mapped to CPQ Attribute	Comments
ChargeCurrencyCode	currency_t	
ChargeCurrencyUnitPrice	-1 * _s_orcl_unitProratedOrderDiscount	
HeaderCurrencyCode	currency_t	
HeaderCurrencyDurationExtendedAmount	-1 * _s_orcl_totalProratedOrderDiscount	
HeaderCurrencyExtendedAmount	-1 * _s_orcl_totalProratedOrderDiscount	Only if _s_orcl_totalProratedOrderDiscount > 0
HeaderCurrencyUnitPrice	-1 * _s_orcl_unitProratedOrderDiscount	Only if _s_orcl_unitProratedOrderDiscount > 0
PriceElementCode	'QP_DISCOUNT_ADJ'	
PriceElementUsageCode	PRICE_ADJUSTMENT	
RollupFlag	False	
SequenceNumber	4	
SourceChargeComponentId	oRCL_chargeName-C4	Unique charge component Id generated using charge name.
Explanation	Auto adjustment	

Charge Attribute Mapping for Net Price Plus Tax (Total Price Including Tax)

In Fusion Order Management, Create Order payload, Total Prices **Inclusive** of Taxes are wrapped in chargeComponents. This Charge component is added only if 'Is tax Present' is marked true (`_tax_isTaxPresent_t = true`). The Charge Attribute Mapping for Net Price Plus Tax attributes were added in Oracle CPQ 25A.

Order Management Attribute	Mapped to CPQ Attribute	Comments
ChargeCurrencyCode	currency_t	
ChargeCurrencyUnitPrice	_s_orCL_TotalPrice	
HeaderCurrencyCode	currency_t	
HeaderCurrencyDurationExtendedAmount	_s_orCL_contractTotalAmount	
HeaderCurrencyExtendedAmount	_s_orCL_totalAmount	
HeaderCurrencyUnitPrice	_s_orCL_TotalPrice	
PriceElementCode	'QP_NET_PRICE_PLUS_TAX'	
PriceElementUsageCode	NET_PRICE_PLUS_TAX	
RollupFlag	False	
SequenceNumber	5	
SourceChargeComponentId	oRCL_chargeName-C5	Unique charge component Id generated using charge name.

Charge Attribute Mapping for Tax

In Fusion Order Management, Create Order payload, Taxes are wrapped in chargeComponents. This Charge component is added only if 'Is tax Present' is marked true (`_tax_isTaxPresent_t = true`). The Charge Attribute Mapping for Tax attributes were added in Oracle CPQ 25A.

Order Management Attribute	Mapped to CPQ Attribute	Comments
ChargeCurrencyCode	currency_t	
ChargeCurrencyUnitPrice	_s_orCL_taxPrice	
HeaderCurrencyCode	currency_t	
HeaderCurrencyDurationExtendedAmount	_s_orCL_contractTaxAmount	
HeaderCurrencyExtendedAmount	_s_orCL_taxAmount	
HeaderCurrencyUnitPrice	_s_orCL_taxPrice	
PriceElementCode	'QP_EXCLUSIVE_TAX' / 'QP_INCLUSIVE_TAX'	If <code>_tax_isTaxInclusive_t = true</code> , then QP_INCLUSIVE_TAX otherwise QP_EXCLUSIVE_TAX
PriceElementUsageCode	EXCLUSIVE_TAX/INCLUSIVE_TAX	If <code>_tax_isTaxInclusive_t = true</code> , then INCLUSIVE_TAX otherwise EXCLUSIVE_TAX
RollupFlag	False	
SequenceNumber	6	
SourceChargeComponentId	oRCL_chargeName-C6	Unique charge component Id generated using charge name.

Charge Attribute Mapping for Net Price Minus Tax (Total Price Excluding Tax)

In Fusion Order Management, Create Order payload, Total Prices Excluding Taxes are wrapped in chargeComponents. This Charge component is added only if 'Is tax Present' is marked true (`_tax_isTaxPresent_t = true`). The Charge Attribute Mapping for Net Price Minus Tax attributes were added in Oracle CPQ 25A.

Order Management Attribute	Mapped to CPQ Attribute	Comments
ChargeCurrencyCode	currency_t	
ChargeCurrencyUnitPrice	_s_orcl_totalPriceExcludingTax	
HeaderCurrencyCode	currency_t	
HeaderCurrencyDurationExtendedAmount	_s_orcl_contractTotalAmountExcludingTax	
HeaderCurrencyExtendedAmount	_s_orcl_totalAmountExcludingTax	
HeaderCurrencyUnitPrice	_s_orcl_totalPriceExcludingTax	
PriceElementCode	'QP_NET_PRICE_EXC_INCLUSIVE_TAX'	
PriceElementUsageCode	NET_PRICE_TAX_EXCLUDED	
RollupFlag	False	
SequenceNumber	7	
SourceChargeComponentId	oRCL_chargeName-C7	Unique charge component Id generated using charge name.

Charge Attribute Mappings for Manual Price Adjustments

In Fusion Order Management, Create Order payload, Discounts (Adjustments) are also mapped as Manual Price Adjustments.

This mapping is added only if `_s_orcl_customDiscountType` is not null.

Order Management Attribute	Mapped to CPQ Attribute 23B	Comments
AdjustmentAmount	oRCL_customDiscountAmount	
AdjustmentElementBasisName	'Your Price'	
AdjustmentTypeCode	_s_orcl_customDiscountType	Uses OIC lookup CPQ-FOM-AdjustmentTypeDVM for domain value map.
ChargeDefinitionCode	oRCL_chargeName	Uses OIC lookup CPQ-FOM-ChargeDefinitionDVM for domain value map. The value should match with the Order Management Pricing Charge Definition code. In 23D, mapping changed to " <code>_s_orcl_chargeDefIntegrationId</code> "
ChargeRollupFlag	'false'	
Comments	'Discount requested'	
ReasonCode	'ORA_PRICE_MATCH'	
SequenceNumber	oRCL_chargeSequenceNumber	
SourceManualPriceAdjustmentId	oRCL_chargeName + oRCL_chargeSequenceNumber	Concatenate oRCL_chargeName and oRCL_chargeSequenceNumber

Payment Attribute Mappings for OCC Orders

In Fusion Order Management, Create Order payload, credit card details are sent as Payment details for orders originating from OCC only. The card details are fetched directly from OCC orders and mapped to OM attributes directly as below.

This mapping is added only if `_txnRef_primarySourceSystem_t='OCC'` and `purchaseOrderNumber_t` is empty.

For OCC attributes, please refer to [REST API for Oracle Commerce Cloud](#).

Note: The. paymentGroup: item from paymentGroups[] array which has (paymentGroupClassType = tokenizedCreditCard or creditCard) OR (paymentGroupClassType = externalPaymentGroup and externalType = card)

Order Management Attribute	Mapped to OCC Attribute		Comments
	CreditCard or TokenisedCreditcard	External Card	
OriginalSystemPaymentReference	paymentsGroup.id + '-' +id	paymentsGroup.authorizationStatus[1].statusProps.originalSystemPaymentReference	
AuthorizationRequestId	paymentsGroup.authorizationStatus[1].transactionId	externalId	
PaymentTypeCode	'ORA_CREDIT_CARD'		
CardExpirationDate	paymentGroup.expirationYear- paymentGroup.expirationMonth- paymentGroup.expirationDayOfMonth OR paymentGroup.expirationYear- paymentGroup.expirationMonth- {calculatedLastDayOfMonth}		If expirationDayOfMonth is empty, calculatedLastDayOfMonth is calculated by the JS function - CustomOCCJavascriptFunc.js Function - computeExpiration(Year, Month)
CardTokenNumber	token	paymentsGroup.authorizationStatus[1].statusProps.token	
CardIssuerCode	creditCardType	externalSubtype	
CardFirstName	paymentGroup.billingAddress.firstName	paymentsGroup.authorizationStatus[1].statusProps.nameOnCard	
CardLastName	paymentGroup.billingAddress.lastName	-	
MaskedCardNumber	paymentsGroup.creditCardNumber	externalSourceId	
AuthorizedAmount	paymentsGroup.authorizationStatus[1].amount	paymentsGroup.authorizationStatus[1].amount	
AuthorizationStatusCode	'ORA_SUCCESS'		
AuthorizedOn	paymentsGroup.authorizationStatus[1].transactionTimestamp		

Oracle CPQ Package Installation and Setup

Oracle creates implementation packages to distribute elements needed by customers to implement new Oracle CPQ features. This section contains information about importing the CPQ – Order Management Package into your CPQ environment.

The CPQ – Order Management Package (CPQ_FOM_Package_<release_version>.zip) is a granular migration CPQ package containing CPQ artifacts to support the Order Management Integration solution.

Note: This package also contains some of the artifacts related to subscription products handling in CPQ and Order Management Integration for a future release.

CPQ Integration Center Setup

Before importing the CPQ – Order Management Package, administrators must create an OIC and generic integrations.

Create an OIC Integration

Creating an OIC integration enables Oracle CPQ to connect to back-office systems, on premise environments, and other Oracle products in a consistent, enhanced manner.

Notes:

- Oracle Integration Cloud (OIC) is also known as Integration Cloud Service (ICS). When creating the OIC integration in the Integration Center, select Integration Cloud Service as the integration type.
- Use the same username and password that was used to import the integration package in OIC.

Perform the following steps to create an OIC integration.

1. Navigate to the Admin Home page.
2. Select **Integration Center** in the Integration Platform section.
3. Click **Create Integration**.
4. Select **Integration Cloud Service** from the **Type** drop-down.
5. Select **Gen 3** from the **Generation** drop-down.

6. Enter **OSSICS** in the Name field.
7. Enter **oSSICS** in the Variable Name field.
8. If you are using Gen 2 Generation, enter the **Discovery URL**:
For example, `https://<OIC hostname>:7002/icsapis/v1/integrations`.
9. Enter the username and password for the OIC environment.
10. If you are using Gen 2 Generation, click **Test** to verify the connection. The status must return “Test Connection Passed” before proceeding.
11. Select the **Enable Integration** check box.
12. Click **Save**.

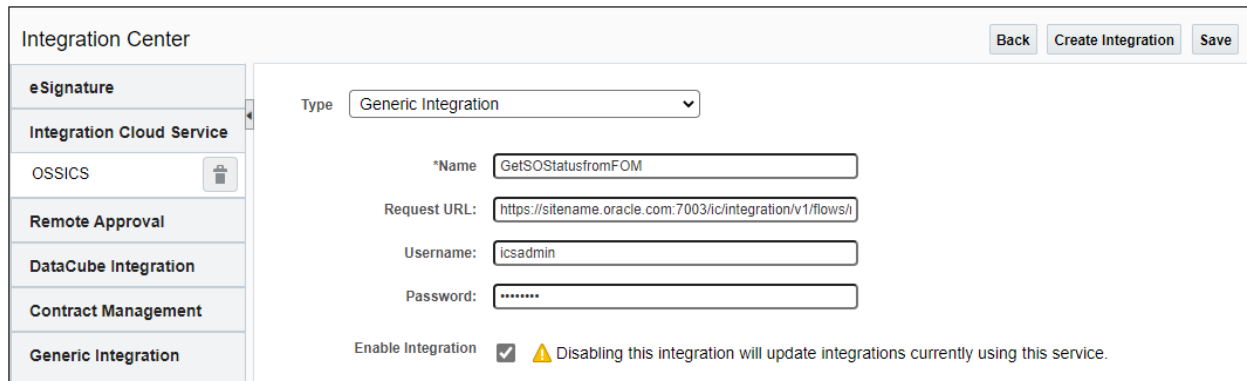
Create a Get Sales Order Status from FOM Integration

Update 24A or later:

This integration uses the OIC **FOM CPQ GetSalesOrderStatus** integration endpoint URL. Refer to [Appendix F: Retrieve OIC Integration Endpoint URL](#) for instructions to retrieve the endpoint URL of an OIC integration.

Perform the following steps to create a generic integration to get sales order status from Order Management.

1. Navigate to the Admin Home page.
2. Select **Integration Center** in the Integration Platform section.
3. Click **Create Integration**.
4. Select **Generic Integration** from the **Type** drop-down.



5. Enter **GetSOSStatusfromFOM** in the Name field.
6. Enter the **Request URL** in the following format:

```
https://<OIC hostname>/ic/api/integration/v2/flows/rest/project/ORCL-BA-CPQ_FUSION_BRIDGE/ORCL-BA-GET_SALES_ORDER_STATUS/24.0/GetSOSStatusfromFOM/
```

The host name is the OIC environment name.
7. Enter the username and password for the OIC environment.
8. Select the **Enable Integration** check box.
9. Click **Save**.

Update 23B, 23C, or 23D:

This integration uses the OIC **GetSOSStatusfromFOM** integration endpoint URL. Refer to [Appendix F: Retrieve OIC Integration Endpoint URL](#) for instructions to retrieve the endpoint URL of an OIC integration.

Perform the following steps to create a generic integration to get sales order status from Order Management.

1. Navigate to the Admin Home page.
2. Select **Integration Center** in the Integration Platform section.
3. Click **Create Integration**.

- Select **Generic Integration** from the **Type** drop-down.

The screenshot shows the 'Integration Center' interface. On the left is a sidebar with a list of integration types: eSignature, Integration Cloud Service, OSSICS, Remote Approval, DataCube Integration, Contract Management, and Generic Integration. The 'Generic Integration' option is selected. The main form area has a 'Type' dropdown set to 'Generic Integration'. Below this, there are several input fields: '*Name' with the value 'GetSOStatusfromFOM', 'Request URL' with the value 'https://sitename.oracle.com:7003/ic/integration/v1/flows/h', 'Username' with the value 'icsadmin', and 'Password' with a masked value '*****'. At the bottom, there is a checkbox for 'Enable Integration' which is checked, followed by a warning icon and the text 'Disabling this integration will update integrations currently using this service.' In the top right corner of the form, there are three buttons: 'Back', 'Create Integration', and 'Save'.

- Enter **GetSOStatusfromFOM** in the Name field.

- Enter the **Request URL** in the following format:

```
https://<OIC hostname>/ic/api/integration/v1/flows/rest/getsostatusfromfom/2.0/GetSOStatusfromFOM/
```

The host name is the OIC environment name.

- Enter the username and password for the OIC environment.
- Select the **Enable Integration** check box.
- Click **Save**.

Create a Cancel a Sales Order from CPQ Integration

Update 24A or later:

This integration uses the OIC **CPQ FOM CancelSalesOrder** integration endpoint URL. Refer to [Appendix F: Retrieve OIC Integration Endpoint URL](#) for instructions to retrieve the endpoint URL of an OIC integration.

Perform the following steps to create a generic integration to cancel a sales order from CPQ.

- Navigate to the Admin Home page.
- Select **Integration Center** in the Integration Platform section.
- Click **Create Integration**.
- Select **Generic Integration** from the **Type** drop-down.

The screenshot shows the 'Integration Center' interface. On the left is a sidebar with a list of integration types: eSignature, Integration Cloud Service, OSSICS, Remote Approval, DataCube Integration, Contract Management, and Generic Integration. The 'Generic Integration' option is selected. The main form area has a 'Type' dropdown set to 'Generic Integration'. Below this, there are several input fields: '*Name' with the value 'CancelSOFromCPQ', 'Request URL' with the value 'https://sitename.oracle.com:7003/ic/integration/v1/flows/h', 'Username' with the value 'icsadmin', and 'Password' with a masked value '*****'. At the bottom, there is a checkbox for 'Enable Integration' which is checked, followed by a warning icon and the text 'Disabling this integration will update integrations currently using this service.' In the top right corner of the form, there are three buttons: 'Back', 'Create Integration', and 'Save'.

- Enter **CancelSOFromCPQ** in the Name field.

6. Enter the **Request URL** in the following format:

`https://<OIC hostname>/ic/api/integration/v2/flows/rest/project/ORCL-BA-CPQ_FUSION_BRIDGE/ORCL-BA-CANCEL_SALES_ORDER/24.0/CancelSOfromCPQ`

The hostname is the OIC environment name.

7. Enter the username and password for the OIC environment.
8. Select the **Enable Integration** check box.
9. Click **Save**.

Update 23B, 23C, or 23D:

This integration uses the OIC **CancelSOfromCPQ** integration endpoint URL. Refer to [Appendix F: Retrieve OIC Integration Endpoint URL](#) for instructions to retrieve the endpoint URL of an OIC integration.

Perform the following steps to create a generic integration to cancel a sales order from CPQ.

1. Navigate to the Admin Home page.
2. Select **Integration Center** in the Integration Platform section.
3. Click **Create Integration**.
4. Select **Generic Integration** from the **Type** drop-down.

Integration Center

Back Create Integration Save

Type: Generic Integration

*Name: CancelSOFromCPQ

Request URL: https://sitename.oracle.com:7003/ic/integration/v1/flows/h

Username: icsadmin

Password: *****

Enable Integration ⚠ Disabling this integration will update integrations currently using this service.

5. Enter **CancelSOFromCPQ** in the Name field.
6. Enter the **Request URL** in the following format:
`https://<OIC hostname>/ic/api/integration/v1/flows/rest/CANCELISOFROMCPQ/2.0/CancelSOfromCPQ`
The hostname is the OIC environment name.
7. Enter the username and password for the OIC environment.
8. Select the **Enable Integration** check box.
9. Click **Save**.

Create a Cancel Auto Renewed Quote and Subscription from CPQ Integration

Update 25B or later:

This integration uses the OIC **CPQ OSS CancelRenewedSubscription** integration endpoint URL. Refer to [Appendix F: Retrieve OIC Integration Endpoint URL](#) for instructions to retrieve the endpoint URL of an OIC integration.

Perform the following steps to create a generic integration to cancel Renewed subscription from CPQ.

1. Navigate to the Admin Home page.
2. Select **Integration Center** in the Integration Platform section.
3. Click **Create Integration**.
4. Select **Generic Integration** from the **Type** drop-down.

The screenshot shows the 'Create Integration' form in Oracle Integration Center. The form is for a 'Generic Integration'. The 'Name' field is filled with 'CancelRenewedSubscription'. The 'Request URL' field is filled with 'https://crm-olc3-env-1-idracvuj80c-ngdex.integration.1'. The 'Username' field is filled with 'crm_olc_generic' and the 'Password' field is masked with asterisks. The 'Enable Integration' checkbox is checked. A warning message states: 'Disabling this integration will update integrations currently using this service.' The left sidebar shows a list of integration types, with 'CancelRenewedSu...' selected.

5. Enter **CancelRenewedSubscription** in the Name field.
6. Enter the **Request URL** in the following format:
`https://<OIC hostname>/ic/api/integration/v2/flows/rest/project/ORCL-BA-CPQ_FUSION_BRIDGE/ORCL-BA-CANCEL_RENEW_SUBS/25.0/CancelRenewedSubscription`
The hostname is the OIC environment name.
7. Enter the username and password for the OIC environment.
8. Select the **Enable Integration** check box.
9. Click **Save**.

Import CPQ-Oracle Order Management Package

The CPQ-Oracle Order Management package is a granular migration package containing new elements in support of the Order Management solution. As a granular migration package, administrators can add or remove specific elements from the package or remove specific elements when importing the package.

Note: Please ensure that an OIC integration is setup with variable name “oSSICS”, according to the steps mentioned in the section [Create an OIC Integration](#), before importing the CPQ_FOM_Package_<release_version>.zip

Perform the following steps to install the Order Management package.

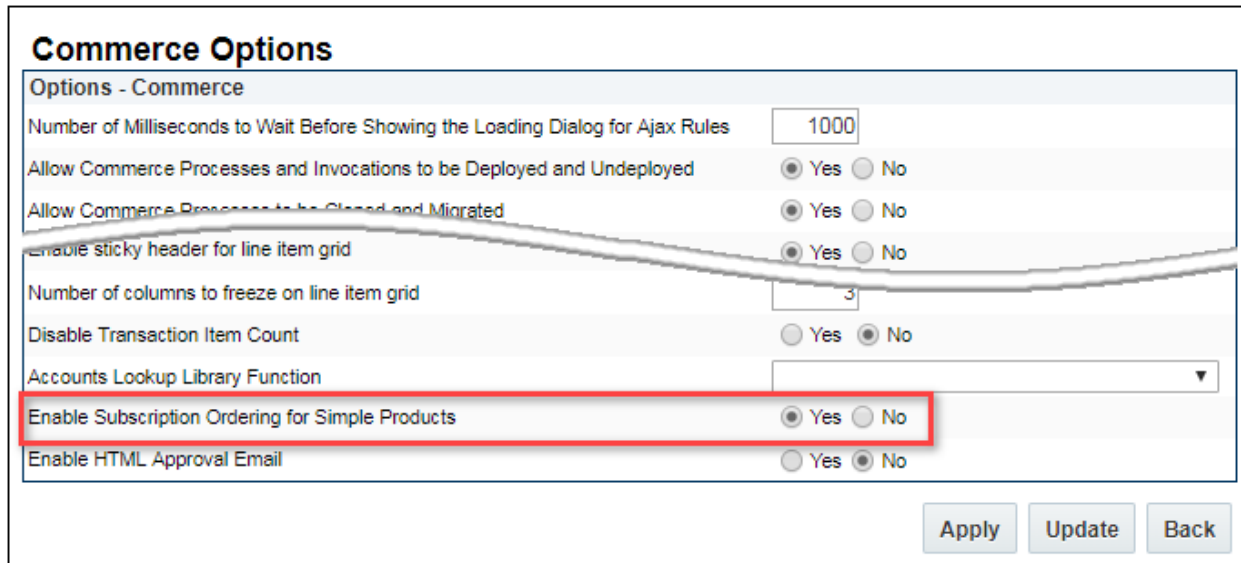
1. Download the Oracle Order Management package (i.e., CPQ_FOM_Package_<release_version>.zip) from [My Oracle Support](#).
2. Navigate to the Admin Home page.
3. Select **Migration** in the Utilities section.
4. Select **Import Package** from the **Select A Mode** drop-down. The Upload Package dialog opens.
5. Click **Browse** and navigate to the CPQ_FOM_Package_<release_version>.zip package.
6. Select the target process from the Choose a target process for Cross Process Migration drop-down.
7. Click **Upload**.
8. Click **Migrate**.
9. When the migration completes, check the migration logs for errors.

Enable Subscription Ordering for Simple Products (Optional)

Customers can enable Subscription Ordering support to directly add simple products to a Commerce Transaction for an asset-based order. A simple product is a product that does not have its part number associated with any of the related configuration models. When enabled, users can use Quick Add to add simple products to a Transaction without navigating away from the Transaction page. They can also add simple products using a parts search.

Perform the following steps to enable Subscription Ordering for Simple Products.

1. Navigate to the Admin Home page.
2. Select **Commerce Settings** in the Commerce and Documents section.



Commerce Options

Options - Commerce

Number of Milliseconds to Wait Before Showing the Loading Dialog for Ajax Rules	<input type="text" value="1000"/>
Allow Commerce Processes and Invocations to be Deployed and Undeployed	<input checked="" type="radio"/> Yes <input type="radio"/> No
Allow Commerce Processes to be Cleared and Migrated	<input checked="" type="radio"/> Yes <input type="radio"/> No
Enable sticky header for line item grid	<input checked="" type="radio"/> Yes <input type="radio"/> No
Number of columns to freeze on line item grid	<input type="text" value="3"/>
Disable Transaction Item Count	<input type="radio"/> Yes <input checked="" type="radio"/> No
Accounts Lookup Library Function	<input type="text"/>
Enable Subscription Ordering for Simple Products	<input checked="" type="radio"/> Yes <input type="radio"/> No
Enable HTML Approval Email	<input type="radio"/> Yes <input checked="" type="radio"/> No

3. Set the **Enable Subscription Ordering for Simple Products** option to **Yes**.
4. Click **Apply** or **Update**.

Enable CPQ and OIC Configuration for System Bundle Support (Optional)

Customers can enable the following CPQ and OIC configurations for System Bundle support.

Perform the following steps to enable CPQ Configuration for System Bundle support.

1. Navigate to the Oracle CPQ Admin Home page.
2. Select **Commerce Settings** in the **Commerce and Documents** section.

Commerce Options

Options - Commerce

Number of Milliseconds to Wait Before Showing the Loading Dialog for Ajax Rules: 1000

Allow Commerce Processes and Invocations to be Deployed and Undeployed: Yes No

Allow Commerce Processes to be Cloned and Migrated: Yes No

Allow Commerce Processes to be Cloned and Migrated: Yes No

Enable URL Encodings: Yes No

Duration in minutes a task can wait in the queue before it gets cancelled on collaborative transactions: 30

Remove all Recommended Items from Quote Line Item Grid on Parent Model Removal: Yes No

Populate part attributes for a model with a BOM part: Yes No

Reports

- [Quoting Metrics](#)

[Back to Top](#)

3. Select **Yes** for the **Populate part attributes for a model with a BOM part** option.
4. Click **Apply** or **Update**.

Perform the following steps to enable OIC Configuration for System Bundle support:

1. Open **Oracle CPQ Fusion Bridge Accelerator**.
2. Under **Lookups** section open **CPQ-FUSION-ConfigOptionsDVM**

ORACLE

CPQ-FUSION-ConfigOptionsDVM

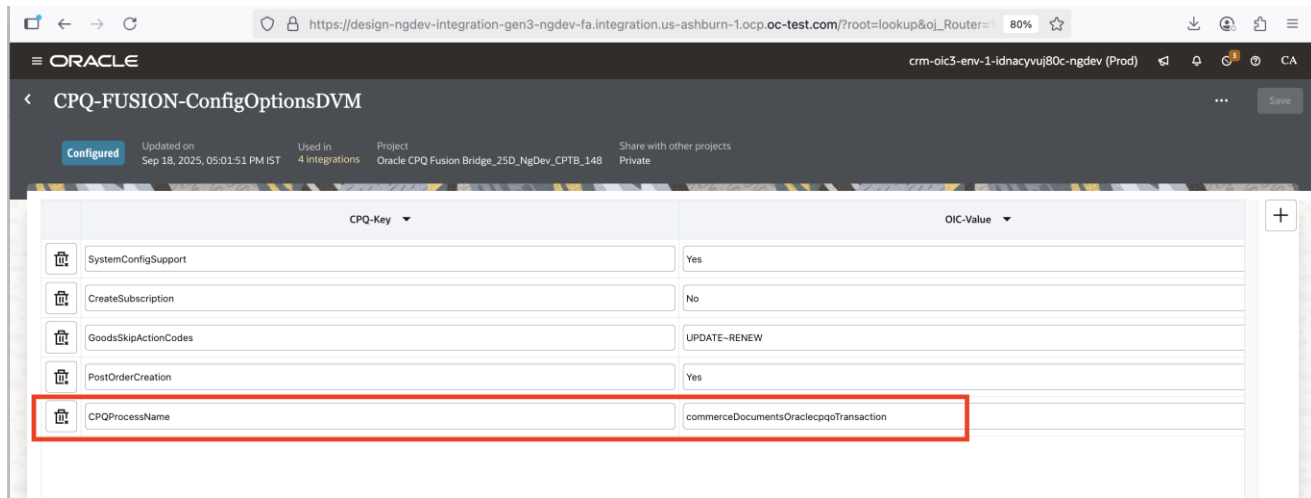
Configured Updated on Jun 15, 2025, 03:40:41 PM IST Used in 1 integrations Project Oracle CPQ Fusion Bridge

	CPQ-Key	OIC-Value
	SystemConfigSupport	Yes
	CreateSubscription	Yes
	GoodsSkipActionCodes	UPDATE-RENEW

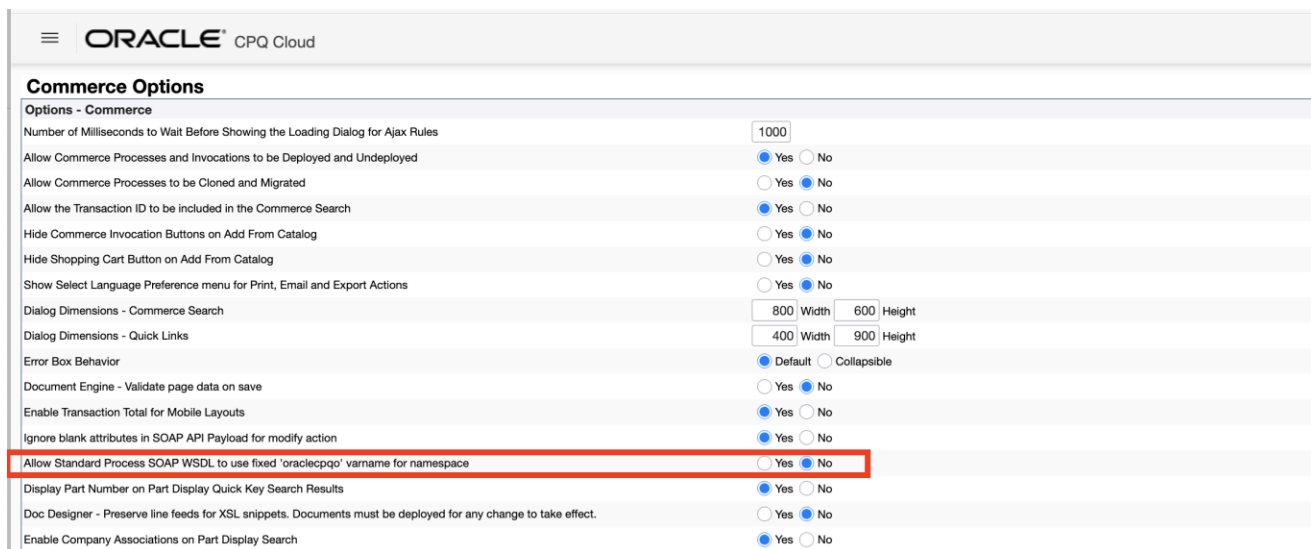
3. Set the **SystemConfigSupport** value to **Yes**.
4. Click **Save**.

Oracle CPQ Process-Related Configuration Changes for CPQ and OIC

By default, the OIC Accelerator supports with the “Oraclecpqo” CPQ process. Oracle CPQ is shipped with “commerceDocumentsOraclecpqoTransaction” as the OIC-Value and “CPQProcessName” as the CPQ-Key.

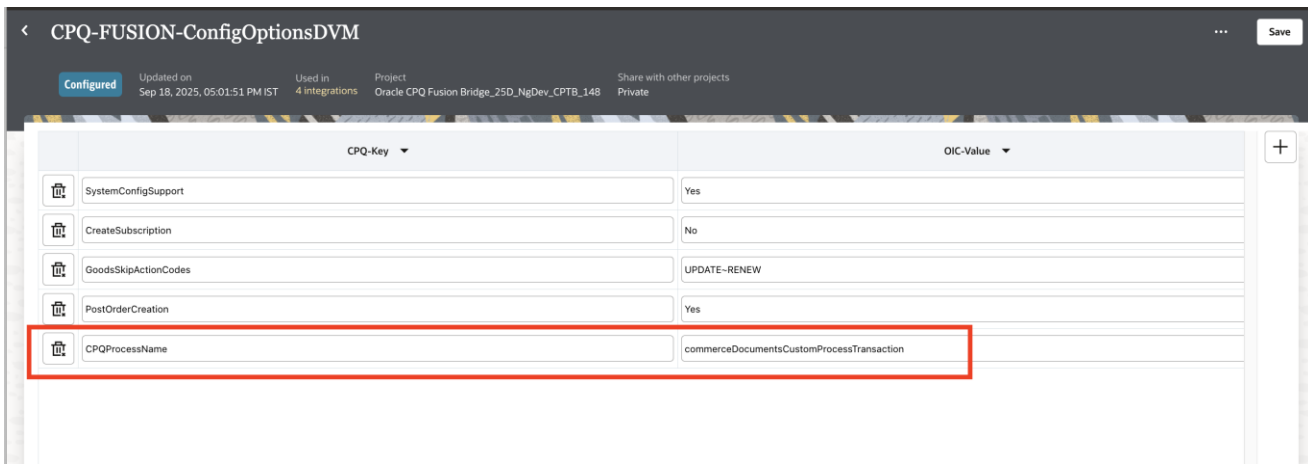


The Oracle CPQ Commerce Setting **Allow Standard Process SOAP WSDL to use fixed 'oraclecpqo' varname for namespace** is set to **No** by default.

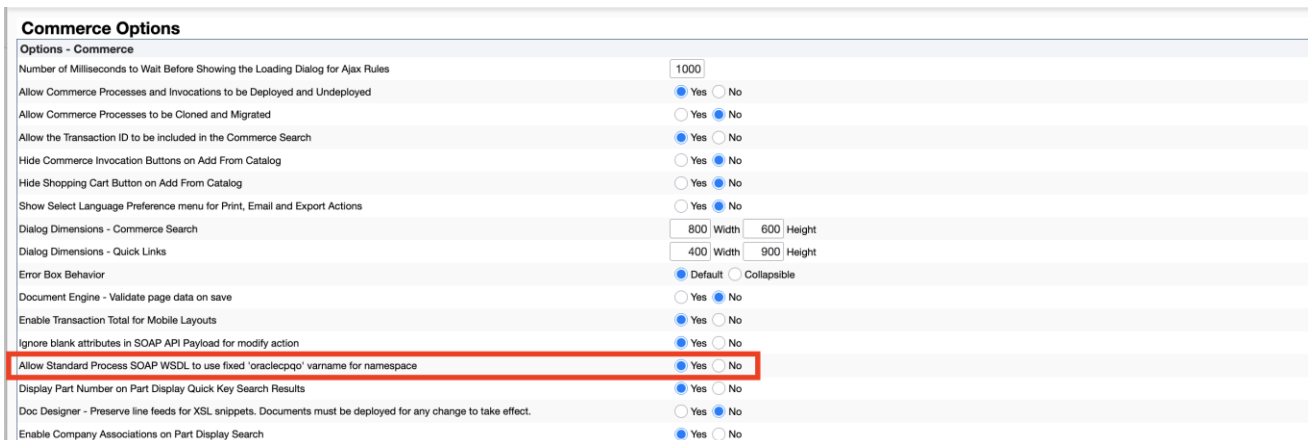


If a customer is working with a different process, for example a process name called “CustomProcess”, the following changes are required:

1. Go to the OIC Accelerator “CPQ-FUSION-ConfigOptionsDVM” lookup.
2. Select “CPQProcessName” for CPQ-Key.
3. Enter the full CustomProcess full name for the OIC-Value.
4. Click **Save**.



5. Go to the Oracle CPQ application and navigate to the Commerce Options Settings.
6. Select **Yes** for the **Allow Standard Process SOAP WSDL to use fixed 'oraclecpqo' varname for namespace**.
7. Click **Save**.



CPQ Standard Process Elements

The new Commerce Standard Process feature simplifies the implementation of Order Management solution by including the following elements in the *Oracle Quote to Order* Commerce process in the Oracle CPQ RefApp 23B or later.

- Commerce Library Functions
- Commerce Attributes
- Commerce Actions
- Commerce Rules

Notes:

- The out-of-the-box Oracle Business Accelerator is designed to function exclusively with the WSDL endpoint located at `/commerce/oraclecpqo?wsdl`. For the standard process, the designated process name is `oraclecpqo`. If you want to define a new standard process, ensure that the name remains `oraclecpqo` to maintain compatibility with the out-of-the-box Oracle Business Accelerator.
- The new Standard Process now includes several elements that are used for Order Management integration. Refer to the Oracle CPQ Administration Online Help – [Commerce Standard Process](#) topic for more information.
- The remaining elements required for integration can be imported from the release-specific Oracle CPQ-Order Management package.

Commerce Integrations

Note: Some of the Commerce Integrations in this section are provided for reference no action is required to implement Commerce integrations. The following Commerce integrations are included in the Oracle Quote to Order Commerce process (the Commerce Standard Process in the Oracle CPQ RefApp 23B or later) or are imported in the release-specific Oracle CPQ Order Management package with the exception of [Process Create Order Response](#) which may have to be implemented manually.

Create Order (Integration Cloud Service)

The following Integration Cloud Service type integration invokes OIC to initiate the Create Order workflow.

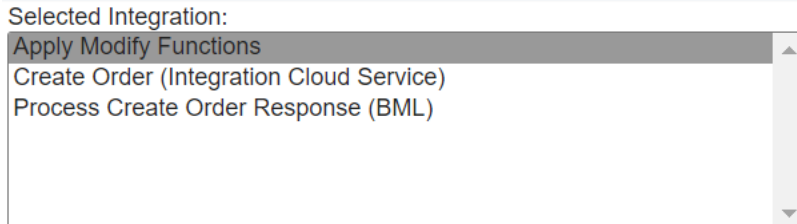
- **Name:** Create Order
- **Type:** Integration Cloud Service
- **Variable Name:** `createOrder`
- **Timeout:** 500000
- **Endpoint URL:** enter endpoint url from the integration's OIC metadata. Refer to [Appendix L: Retrieve OIC Integration Endpoint URL](#).
- **Associated Trigger-Action Name:** `order_start`

Note: Verify the Oracle CPQ action is **Export** and not the default action **Import**.

Process Create Order Response (BML)

Note: Customers implementing the new Commerce Standard Process (available beginning in Oracle CPQ 23C platform) or customers implementing new Commerce Standard Process in Oracle CPQ 23B release, who upgrade to Oracle CPQ 23C or later platform, **must manually** create the following [Process Create Order Response](#) BML type integration if it does not exist post-upgrade.

After creating and verifying the Commerce integration, navigate to the transaction action **Create Order** with variable name `order_start` and under the **Integration** tab ensure that the **Selected Integration** list is populated in the following order:



The following commerce BML integration processes REST response from the Create Order ICS Integration and apply it to the transaction.

- **Name:** Process Create Order Response
- **Type:** BML
- **Variable Name:** `processCreateOrderResponse`
- **Run Type:** Always Run
- **BML Function:** Refer to [Appendix B: BML – Process Create Order Response](#)
- **Associated Trigger-Action Name:** `order_start`

Get Sales Order Status from Oracle Order Management (BML)

The following commerce BML integration is used to get sales order status from Order Management.

- **Name:** Get SO Status From FOM
- **Type:** BML
- **Variable Name:** `getSOStatusFromFOM`
- **Run Type:** Always Run
- **Commerce Library Function:** `getSOStatusFromFOM`
- **Associated Trigger-Action Name:** `cancelOrder, getSOStatusFromFOM`

Cancel Sales Order from CPQ (BML)

The following commerce BML integration is used to cancel a sales order status from CPQ.

- **Name:** Cancel SO From CPQ
- **Type:** BML
- **Variable Name:** `cancelSOFromCPQ`
- **Run Type:** Always Run
- **Commerce Library Function:** `cancelOrder`
- **Associated Trigger-Action Name:** `cancelOrder`

Update Fulfillment Line Status (BML)

The following commerce BML integration is used to update fulfillment line status.

- **Name:** Update Fulfillment Line Status
- **Type:** BML
- **Variable Name:** `updateFulfillmentLineStatus`
- **Run type:** Always Run
- **Commerce Library Function:** `updateFulfillmentLineStatus`
- **Associated Trigger-Action Name:** `updateAsset`

Update Asset (BML)

The following commerce BML integration is used to update an asset.

- **Name:** Update Asset
- **Type:** BML
- **Variable Name:** `updateAsset`
- **Run type:** Always Run
- **Commerce Library Function:** `updateAsset`
- **Associated Trigger-Action Name:** `updateAsset`

TCA Account Integration (BML)

Note: Customers implementing the new Commerce Standard Process, must manually create the following TCA Account Integration BML type integration if it does not exist post-upgrade.

After creating and verifying the Commerce integration, navigate to the transaction action **Get Account Details** with variable name `getAccountDetails` and under the **Integration** tab ensure that the **Selected Integration** list is populated in the following order:

- Apply Modify Functions
- TCA Account Integration (BML)

The following commerce BML integration is used to invoke TCA `getFinancialCustomerInfoAPI` to retrieve Bill To, Sold To and Ship To customer information.

- **Name:** TCA Account Integration
- **Type:** BML
- **Run Type:** Always Run
- **Commerce Library Function:** `_s_tCAAccountIntegration`
- **Associated Trigger-Action Name:** `getAccountDetails`

Commerce Attributes

All the relevant commerce attributes are available in the *Oracle Quote to Order* Commerce process, based on the new Commerce Standard Process in the Oracle CPQ RefApp 23B or later. Refer to Oracle CPQ Administration Online Help - Standard Process for more information.

Commerce Actions

The following are some of the commerce actions that are already included in the Oracle Quote to Order Commerce process, based on the new Commerce Standard Process in the Oracle CPQ RefApp 23B or later.

- **Cancel Order** - This main document action is associated with the Cancel Order button on the Transaction UI and is used to cancel and entire order or the selected line items.
 - **Name:** Cancel Order
 - **Variable Name:** `cancelOrder`
 - **Selected Integrations:** Cancel SO From CPQ (BML), Get SO Status From FOM (BML)

Refer to the following sections for setup and implementation:

- [Generic Integration for Cancel a Sales Order from CPQ](#)
- [Commerce Integration for Cancel Sales Orders from CPQ](#)

- **Create Order** - This main document action is associated with the Create Order button on the Transaction UI. The action is used to create an order in Order Management. This action is hidden if the transaction doesn't contain any line items.
 - **Name:** Create Order
 - **Variable Name:** `order_start`
 - **Selected Integration:** Create Order (Integration Cloud Service), Process Create Order Response (BML)

The integrations need to be in following order for Create Order action:

1. Apply Modify Functions
2. Create Order (ICS) Integration
3. Process Create Order Response (BML) Integration

- **Get Account Details:** - This main document action is used to support account integration. When users click the Customer (or Account) Details tab on the Transaction page, a Customer Company Name field is available. By entering a customer company name and clicking Customer Details, the account fields (Party ID, Invoice to Party id, Bill To Site ID) are populated and mapped to the associated Order Management fields. These field mappings support the creation of a new order in Order Management based on the information provided in the Oracle CPQ Transaction.
 - **Name:** Get Account Details
 - **Variable Name:** `getAccountDetails`

Refer to [BML – Process Create Order Response](#)

This BML is used to process the rest response received from Create Order ICS integration. It is associated with Create Order(`order_start`) action.

BML Input Attributes:

- Transaction: `createOrderRestResponse`
- Transaction Line: `_document_number, _line_bom_parent_id`

```
retStr = "";
if(createOrderRestResponse <> ""){
    for line in transactionLine {
        if (line._line_bom_parent_id == "") {
            retStr = retStr + line._document_number +
            "~fulfillmentStatus_1~BEING_FULFILLED|";
        }
        retStr = retStr + createOrderRestResponse;
    }
}
return retStr;
```

BML - Get Account Details for more information.

- **Get Sales Order Status from Oracle Order Management** - This main document action is associated with the Get SO Status from FOM button and is used to get the order header and line status from FOM on demand.
 - **Name:** Get SO Status From FOM
 - **Variable Name:** `getSOStatusFromFOM`
 - **Selected Integration:** Get SO Status From FOM (BML)

Refer to the following setup and implementation:

- [Generic Integration for Get Sales Order Status from FOM](#)
- [Commerce Integrations for Get Sales Order Status from Oracle Order Management](#)

- **Save** - This main document action is used to save the current state of the transaction and calculate roll up charges for all lines.
 - **Name:** Save
 - **Variable Name:** `cleanSave_t`
- **Update Asset** - This main document action is used to create assets in the CPQ Asset Repository based on the order line status. The code associated with this action is executed via the REST API generated for this action. This REST API is invoked through the orchestration logic in UpdateSOStatusFromOSS OIC integration.
 - **Name:** Update Asset
 - **Variable Name:** `updateAsset`
 - **Selected Integrations:** Update Fulfillment Line Status (BML), Update Asset (BML)

Refer to the following sections for setup and implementation:

- [Commerce Integration for Update Fulfillment Line Status](#)
- [Commerce Integration for Update Asset](#)
- For Update Asset REST API integration usage, refer to [Appendix E1: OIC Integration](#) –.

- **Save** - This sub-document action used to save the current state of the line item and calculate roll up charges a single line item,
 - **Name:** Save
 - **Variable Name:** `saveChanges_1`

Library Functions

The Oracle Quote to Order Commerce process, based on the new Commerce Standard Process in the Oracle CPQ RefApp 23B or later release includes several commerce library functions.

Validation Rules

Validation Rules are used to validate attribute or field values. They are linked to an action and only run when a specific action is clicked by the user. The Oracle Quote to Order Commerce process, based on the new Commerce Standard Process in the Oracle CPQ RefApp or later includes the following Validation Rules.

- **Validate Line Status Values for Asset Creation** This main document validation rule is used to validate that the 'Trigger Update Asset for Line Status' attribute is not empty when the Update Asset action is invoked.
 - **Name:** Validate Line Status Values For Asset Creation
 - **Variable Name:** `validateLineStatusValuesForAssetCreation`
 - **Status:** Active
 - **Linked Actions:** Save, Update Asset
 - **Condition Type:** Always True
 - **Action Type:** Simple
 - **Components to Validate:** 'Trigger Update Asset for Line Status' main document attribute
 - **Operator:** Equals
 - **Value:** (Empty)

- **Validate Line Status Values for Cancel Order** This main document validation rule is used to validate that 'Cancel Order' is not allowed when status = Awaiting Billing
 - **Name:** Validate Line Status Values for Cancel Order
 - **Variable Name:** `_s_validateLineStatusValuesForCancelOrder`
 - **Status:** Active
 - **Linked Actions:** Cancel Order
 - **Condition Type:** Always True
 - **Action Type:** Simple
 - **Components to Validate:** Status' main document attribute
 - **Operator:** Constrain
 - **Value:** Awaiting Billing

Hiding Rules

Hiding Rules tell Oracle CPQ to hide select attributes or actions when a pre-defined condition is satisfied. They are made up of a condition and an action. The values of the attributes selected as the condition attributes determine the result of the condition, which when True trigger the hiding of the action attributes.

- **Hide Create Order** – This main document hiding rule hides the **Create Order** action when the order is already created or if no lines are present in the transaction.
 - **Name:** Hide Create SO Action
 - **Variable Name:** `hideCreateSOAction`
 - **Status:** Active
 - **Condition Type:** Advanced
 - **Action Type:** Simple
 - **Components to Hide:** 'Create Order' action
- **Hide Cancel Order Button** – This main document hiding rule hides the **Cancel Order** action when the order is not created (i.e., if order Key is empty, hide the Cancel order action).
 - **Name:** Hide Cancel Order Button
 - **Variable Name:** `hideCancelOrderButton`
 - **Status:** Active
 - **Condition Type:** Simple
 - **Condition 1 Attribute:** Order Key
 - **Condition 1 Operator:** Equals
 - **Condition 1 Value:** (Empty)
 - **Action Type:** Simple
 - **Components to Hide:** 'Cancel Order' action and 'Cancel Reason' main document attribute
- **Hide SO Status Action** – This main document hiding rule hides the **Get SO Status From FOM** action when the order is not created (i.e., if order Key is empty, hide the Get SO Status From FOM action).
 - **Name:** Hide SO Status Action
 - **Variable Name:** `hideSOStatusAction`
 - **Status:** Active
 - **Condition Type:** Simple
 - **Attribute:** Order Key
 - **Operator:** Equals
 - **Value:** (Empty)
 - **Action Type:** Simple
 - **Components to Hide:** 'Get SO Status from FOM' action
- **Recurring Attributes (Transaction)**– This main document hiding rule hides all totals attributes related to Recurring Pricing if no such line items exist on the quote.
 - **Name:** Recurring Attributes (Transaction)
 - **Variable Name:** `recurringAttributes_t`
 - **Status:** Active
 - **Condition Type:** Simple
 - **Action Type:** Simple
 - **Components to Hide:**
 - Contracted Periods
 - Annual Value (Net)
 - Annual Discount
 - Annual Value (List)
 - Period

Order Management Setup

Business events must be enabled in Order Management for different Fulfillment Statuses to synchronize the order header and line status and to create assets in the CPQ Asset repository. This section provides steps that are required in Order Management for integration with OIC using business events. For more details about the setup, refer to the [Oracle Order Management Guide](#).

Enable Business Events

Manage Trigger Points for Business Events

OIC integration uses the Sales Order Notification business event raised by the Order Management system based on conditions defined as business event triggers.

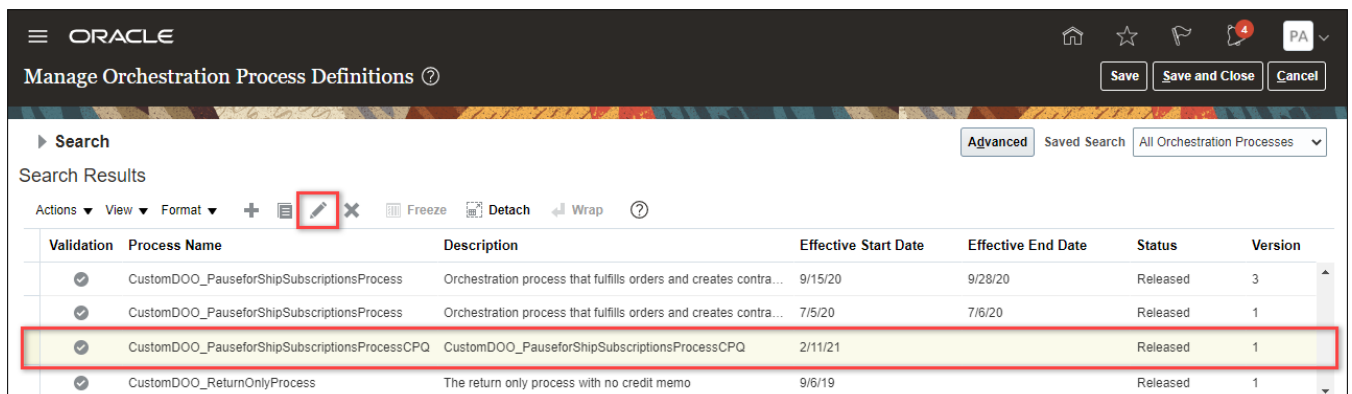
1. Login to your Order Management environment as admin user.
2. In the Navigator, click **Setup and Maintenance**.
3. Select **Order Management** from the Setup drop-down.
4. Search for the **Manage Business Event Trigger Points** task.
5. Click on the **Manage Business Event Trigger Points** task.
6. Select the **Active** option for the following triggers.
 - o Fulfillment Line Status Update
 - o Fulfillment Line Closed
 - o Order Header Status Update

Note: This will raise a business event and send a notification to each subscriber for the selected trigger points.

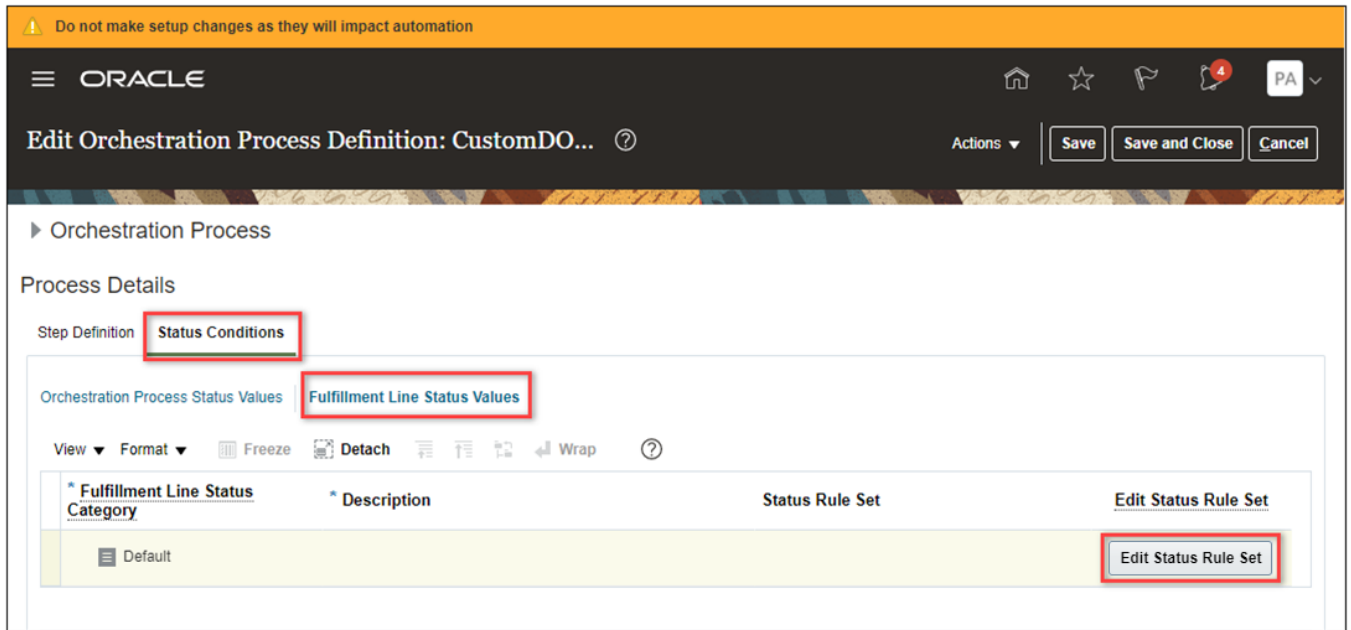
Send Status Updates for Fulfillment Lines

Perform the following steps to send an update to each subscriber when the status changes on a fulfillment line.

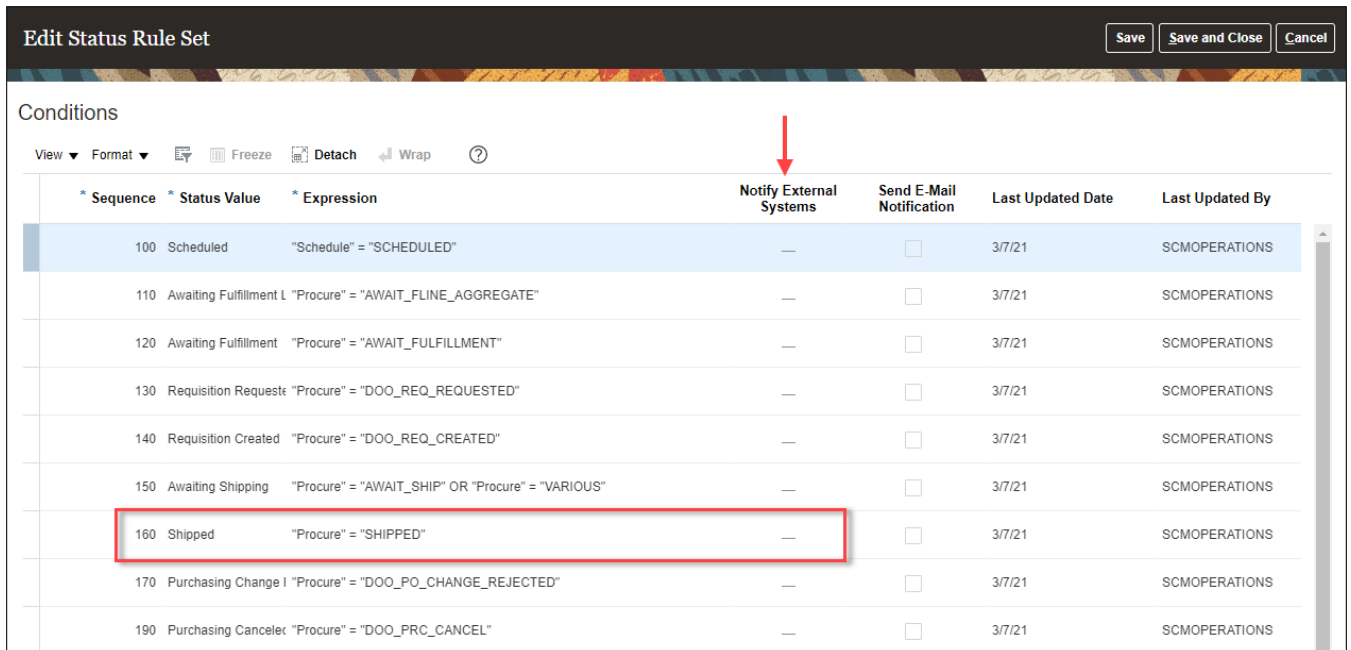
1. Login to your Order Management environment as admin user.
2. In the Navigator, click **Setup and Maintenance**.
3. Select **Order Management** from the Setup drop-down.
4. Search for the **Orchestration Process Definitions** task.
5. Click on the **Orchestration Process Definitions** task.
6. On the Manage Orchestration Process Definitions page, search for the orchestration process that your deployment uses. Each orchestration process controls the status value for each fulfillment line, so you must modify the orchestration process that controls the status value.
7. From search results, click on your process name and click on the pencil icon to edit the process. In the following screenshot we have selected one example process to demonstrate further steps.



- In the Process Details area, click Status Conditions > Fulfillment Line Status Values > Edit Status Rule Set



- Edit Status Rule Set page opens with all status conditions listed. For any status that you want to send out notifications, select the checkbox for 'Notify External Systems' column.



- Click on **Save** or **Save and Close**.
- Deploy.
- Repeat this procedure for each orchestration process in your deployment that updates status values.

Send Status Updates for Subscription Lines

Event subscription from Subscription Management

By activating the UpdateSubStatusFromOSS, the OIC integration receives subscription created Business Events. No additional setup required.

Edit Request

Oracle ERP Cloud trigger

Define the purpose of this trigger

- Receive Business Events raised within ERP Cloud
- Receive Callback Message upon completion of FBDI bulk Import Job submitted via another Integration
- Receive Requests from ERP Cloud Applications (explicitly sent from Groovy Script or Business Logic)

Business Event For Subscription

- Strategy External Task opened
- Data Pool Subscription Event
- Subscription AR Intergration Event
- Subscription Created Event**
- Subscription Deleted Event
- Subscription Updated Event

Filter Expr for Subscription Created Event

```
<xpathExpr
xmlns:ns1='http://xmlns.oracle.com/apps/subscriptions/subscriptionManagement/s
ubscriptionIntegrationService/types/'
xmlns:ns2='http://xmlns.oracle.com/apps/subscriptions/subscriptionManagement/s
ubscriptionService/'>$eventPayload/ns1:result/ns2:SourceSystem =
'ORA_BM_CPQ'</xpathExpr>
```

Event Description

This public event signals a subscription is created

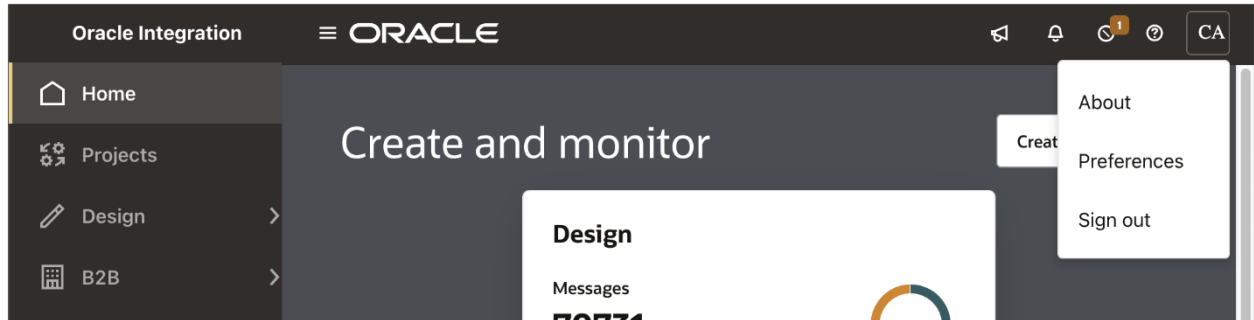
Setting Up Order Management Event Subscriptions

This step is required to subscribe to the Order Management business events using OIC.

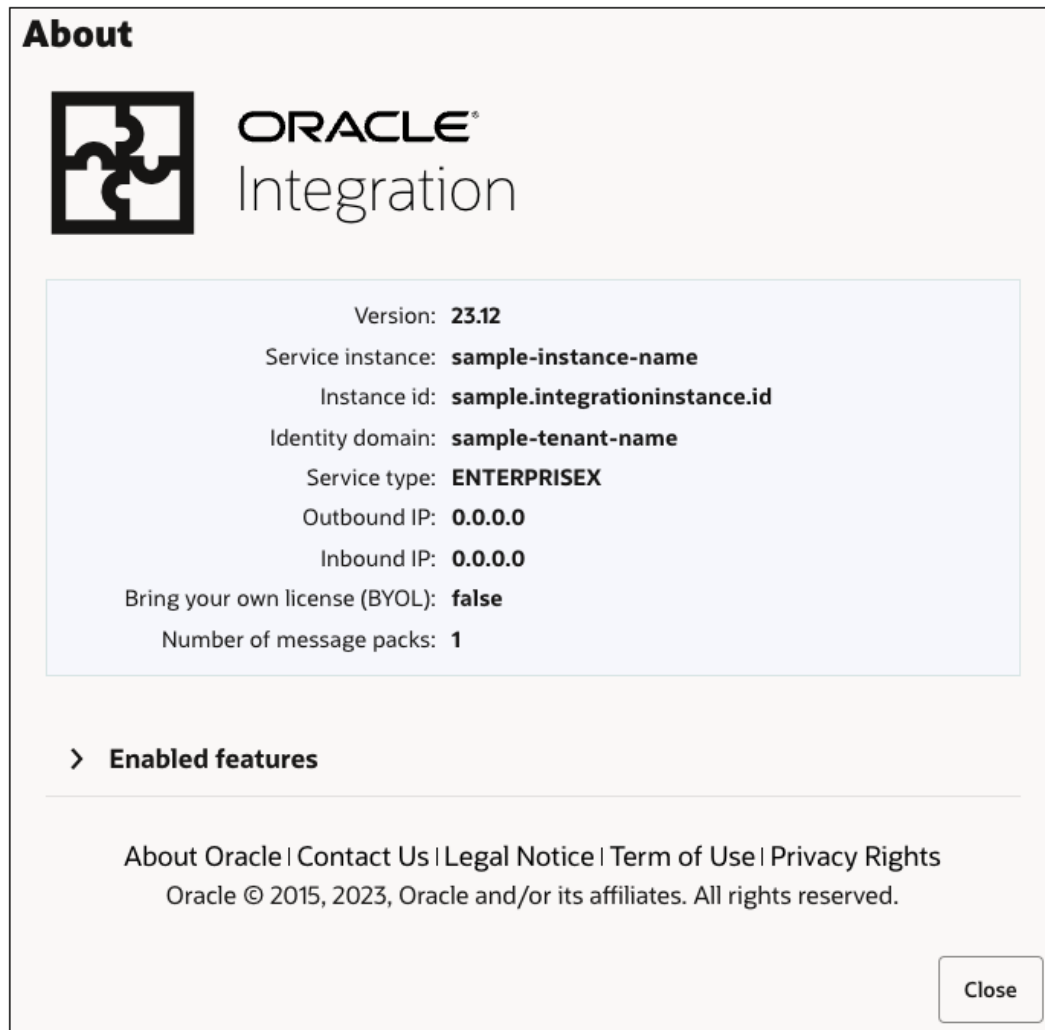
Get the CSF Key

Perform the following steps to acquire the CSF (Credential Store Framework) key.

1. Log in to the OIC site as an administration user.
2. Select **About** from the account drop-down.



3. Record the CSF Key which is a combination of **Identity Domain** and **Service Instance**:
<Identity Domain><Service Instance>



Register the CSF Key in Order Management

Perform the following steps to register the CSF key in Order Management

1. Login to `https://<OM host name>/soa/composer`.
2. Click the **Manage Security** button, located in upper right corner.
3. Enter CSF key recorded from the [Get the CSF Key](#) procedure.
4. Enter your OIC admin credentials (OIC username and password).
5. Reenter the password for confirmation.
6. Click **Register**.
7. Verify the success message is printed on top.

Oracle CPQ Field Setup

Oracle CPQ administrators must setup fields in the CPQ environment and obtain the values for these fields from the Order Management administrator.

Business Unit ID Field

The Business Unit Id or Organization Id uniquely identifies an organization or company in the Oracle Order Management Fusion site. For new sites, configure the field in Fusion. The Commerce process has a “Business Unit ID” attribute at the Transaction level. Administrators must obtain the value for this field from the Order Management administrator and populate the attribute in the Transaction accordingly.

Account Fields

The account information provided during order creation is used for order billing purposes. A sales user can obtain the account information for a customer by entering a customer company name and clicking **Customer Details** (getAccountDetails action). The following fields are populated and are mapped to the associated Order Management fields. These field mappings support the creation of a new order in Order Management based on the information provided in the CPQ Oracle Transaction. The fields should be added to the Customer Details tab of the Transaction layout.

- **Invoice To Party ID** or **Account PartyId**: BillToCustomer-AccountNumber in Order Management
- **Invoice To Company Name** or **Customer Company Name**: BuyingPartyName in Order Management
- **Customer ID**: Associated with the '_customer_id' attribute in CPQ for ABO use.

The screenshot shows the 'Transaction' layout with the 'Customer Details' tab selected. The layout is divided into three sections: 'Transaction Details', 'Customer Details', and 'Pricing Details'. The 'Customer Details' section contains the following fields:

Field Name	Value	Field Name	Value
Customer Id	1006	Invoice To First Name	
Customer Company Name	Computer Service and Rentals	Invoice To Last Name	
Party Id	1006	Invoice To Company Name	
Bill To Site Use Id	1025	Invoice To Party ID	1006
SubscriptionProfileId	300100172161473	Ship To Party ID	
		Ship To Company Name	

Part Subscription Product Type Field

Note: Beginning in Oracle CPQ 23B and onwards, the '_part_sales_product_type' main document attribute is used to identify a child level subscription product, and Oracle CPQ 24B and later, the '_model_sales_product_type' transaction line level is used to identify a root level subscription product.

Subscription products can have any of the following values:

- SUBSCRIPTION
- PREVENTIVE_ MAINTENANCE
- SOFTWARE_ MAINTENANCE
- COVERAGE
- INCLUDED_ WARRANTY
- product

Layout Fields

This section contains the attributes and actions that need to be added to the Transaction layout.

The following main document attributes are required for Order details.

- Order Number
- Status
- Cancel Reason
- Payment Terms
- Customer Company Name
- Business Unit Name
- Customer Id (_customer_id)
- Invoice to Party ID
- Account PartyIdBill to Site Use Id

The following main document actions are required.

- Create Order
- Cancel Order
- Customer Details
- Get SO Status from FOM
- Save
- Save (Line)

The following sub-document attributes are required in Line Item Grid.

- Document Number
- Status
- Fulfillment Status
- Fulfillment Line Id
- Action Code
- Cancel Reason
- Instance ID
- RootAssetKey

Demo Product Setup (Optional)

Oracle provides an ATO, KIT, and PTO demo products, which is a sample Configuration in CPQ. Use the demo product to understand the functionality available in Oracle Order management.

Note: The packages shown below are optional packages to install ATO, KIT, and PTO demo products. You can download these packages from [CPQ Standard Process – Order Management Integration \(Doc ID 2942508\)](#).

File Name	Description
Demo_SetupModels_23B.zip	Migration package to setup ATO, KIT, and PTO demo configuration models.
Parts_Demo_23C.zip -or- Parts_Demo_23B.zip	Part items to support demo products. Notes: <ul style="list-style-type: none">• If you are installing the Parts Package for 23C Demo, use the Parts_Demo_23C.zip file.• If you are installing the Parts Package for 23B Demo, use the Parts_Demo_23B.zip file.
Oracle_BomItemDef.zip and Oracle_BomItemMap.zip	BOM Data Tables to support demo products.

Import the Demo Migration Package

Perform the following steps to install the 23B or 23C Demo Product Migration Package.

1. Download the Demo_SetupModels_23B.zip from [My Oracle Support](#).
2. Navigate to the Admin Home page.
3. Select **Migration** under **Utilities**.
4. Select **Import Package** from the **Select A Mode** drop-down. The Upload Package dialog opens.
5. Click **Browse** and navigate to the Demo_SetupModels_23B.zip.
6. Click **Upload**.
7. Click **Migrate**.
8. When the migration completes, check the migration logs for errors.

Deploy Product Families

1. Navigate to the Admin Home page.
2. Select **Catalog Definition** under **Products**.
3. Select **Product Families** from the Navigation drop-down, and then click **List**.
4. Click **Add**.
5. Select **ATO**, **KIT**, and **PTO**, and then click **Add**.
6. Deploy the ATO Product Family
 - a. Select **Deployment Center** from the **ATO** Navigation drop-down, and then click **List**.
 - b. Click **Deploy**.
 - c. Click **Back**.

7. Deploy the KIT Product Family.
 - a. Select **Deployment Center** from the **KIT** Navigation drop-down, and then click **List**.
 - b. Click **Deploy**.
 - c. Click **Back**.
8. Deploy the PTO Product Family.
 - a. Select **Deployment Center** from the **PTO** Navigation drop-down, and then click **List**.
 - b. Click **Deploy**.

Deploy the Home Page

Deploy the Oracle CPQ Home page to make the CPQ FOM Demo Package available on the Oracle CPQ Home page.

Perform the following steps to deploy the Home page.

1. Navigate to the Admin Home page.
2. Select **Home Page** under **Styles and Templates**. The Home Page Setup page opens.

The screenshot shows the 'Home Page Setup' page. At the top, there are radio buttons for 'Standard' (selected) and 'Custom', with a 'Set' button. Below this is a 'Parts' section with a table:

Name	Restrict Access	Punch-in
Parts Search		

Below the 'Parts' section is a 'Catalog' section with a table:

Product Family	Restrict Access	Selector Punch-in	Last Refreshed On
ATO			
KIT			
PTO			

A red box highlights the 'Last Refreshed On' column in the Catalog table. At the bottom of the page, there are buttons for 'Refresh', 'Deployment Center', 'Define XSL Template', and 'Back'. A 'Back to Top' link is also present.

3. Click on the Refresh icon for the **ATO** line.
4. Click on the Refresh icon for the **KIT** line.
5. Click on the Refresh icon for the **PTO** line
6. Click **Deployment Center**. The Deployment Center opens.
7. Click **Deploy**.
8. Click **Refresh** to verify the successful deployment of the Home page.

This screenshot is similar to the previous one, but the 'Last Refreshed On' column in the Catalog table now contains timestamps. A red box highlights this column:

Product Family	Restrict Access	Selector Punch-in	Last Refreshed On
ATO			04/13/2023 2:38 PM
KIT			04/13/2023 2:38 PM
PTO			04/13/2023 2:38 PM

The rest of the page, including the 'Parts' table and the bottom buttons, remains the same as in the previous screenshot.

Install the Parts Package

The Parts_Demo_23B.zip or Parts_Demo_23C.zip package adds parts for the ATO, KIT, and PTO demo products. To view these services in the CPQ sample Configuration, refer to the following examples:

- [Appendix A1: Create Order – Standard Item Workflow](#)
- [Appendix A2: Create Order – Configurable Item Workflow](#)

Note: Monthly Fee, Consumption Fee, and Activation Fee products appear in the calculatedInfo field in the Line Item Grid.

Perform the following steps to install the Parts package.

1. Download Parts_Demo_23B.zip or Parts_Demo_23C.zip from [My Oracle Support](#).



Notes:

- If you are installing the Parts Package for 23C Demo, use the Parts_Demo_23C.zip file.
- If you are installing the Parts Package for 23B Demo, use the Parts_Demo_23B.zip file.

2. Navigate to the Admin Home page.
3. Select **Upload** under **Utilities**. The Upload Files List page opens.
4. Click **Choose File**.
5. Navigate to the downloaded Parts_Demo_23B.zip file, and then click **Add**.
6. Select the Parts_Demo_23B.zip file, and then click **Upload**.
7. Click **Refresh** to check the status of the uploaded file.
8. Check the log corresponding to the uploaded file for errors.

Import BOM Data Tables

Perform the following steps to import the BOM Item Definition and BOM Item Map data tables.

1. Download Oracle_BomItemDef.zip and Oracle_BomItemMap.zip from [My Oracle Support](#).
2. Navigate to the Admin Home page.
3. Click **Data Tables** in the **Developer Tools** section.
4. If a BOM Tables folder does not exist, create a BOM Tables folder.
 - a. Click on the Add Folder icon , in the Admin Toolbar.
 - b. Enter the folder **Name** and **Variable Name**, and then click **OK**.
5. Import the Oracle_BomItemDef.zip file.
 - a. Select **Import** from the navigation panel menu  drop-down.
 - b. Drag and drop the Oracle_BomItemDef.zip file into the Import window or click inside the dashed box to browse and select the Oracle_BomItemDef.zip file.
 - c. Select **BOM Tables** from the **Destination Folder** drop-down.
 - d. Click **Import**.
 - e. Repeat this step to import the Oracle_BomItemMap.zip file.
6. Set options and deploy the Oracle_BomItemDef data table.
 - a. Open the Oracle_BomItemDef data table.
 - b. Select the **Schema** tab.
 - c. Select the **Index** and **Key** options for the **VariableName** field.
 - d. Click **Save**.

- e. Click **Deploy**.
- f. Repeat this step to set options and deploy the Oracle_BomItemMap.zip file.

Activate and Map Data Tables

This procedure is only required the first time BOM tables are installed. Proceed to [Verify](#)

The mapping status of the BOM table displays “Incomplete” for the first activation. After mapping, the status changes to “Complete”.

7. Navigate to the Admin Home page.
8. Select **BOM** under **Products**.
9. Select **BOM Tables** under **BOM Declaration**.
10. Select the **Active** option for the **BOM Item Definition** and **BOM Item Mapping** tables, and then click **Save**.
11. Click on the **BOM Item Definition** Name link.
12. Select the **Oracle_BomItemDef** table in the Table Name drop-down menu.
13. The column mapping is automatic.

Note: If the column names and data types do not match, map the columns manually. Select the appropriate columns from the Column Mapping drop-down menus.

14. Click **Save** when column mapping is complete.
15. Click **Cancel** to return to the Bills of Materials Tables page.
16. Click on the **BOM Item Mapping** Name link.
17. Select the **Oracle_BomItemMap** table in the Table Name drop-down menu.
18. The column mapping is automatic.

Note: If the column names and data types do not match, map the columns manually. Select the appropriate columns from the Column Mapping drop-down menus.

19. Click **Save** when column mapping is complete.

Verify BOM Products

Perform the following steps to verify that all the BOM parts from the BOM package were added to the Oracle CPQ site.

1. Navigate to the Admin Home page.
2. Select **BOM** under **Products**.
3. Select **BOM Root Item List** under **BOM Products**.
4. Click on the variable names to verify that parts were added.
Missing parts are shown in red on this page.

Notes:

- If any parts are missing, add the missing parts to your Oracle CPQ site.
- Make sure to activate BOM tables from Admin-BOM-BOM Tables and Associate/Map them with respective tables.

Order Management Pricing Integration

Standard item, configurable item, and subscription item pricing are derived using the pricing engine in CPQ.

Note:

Beginning in Oracle CPQ 23C, Commerce will support multiple charges for transaction line items. Oracle's Fusion Order Management application requires that each Charge for an Item have a unique combination of Price Type and Charge Type. If you are integrating CPQ with Order Management, you will need to define a different Charge Type to distinguish Charges with the same Price Type but different Price Periods.

Enable Pricing

Perform the following steps in Oracle CPQ to enable Pricing.

1. Navigate to the Admin Home page.
2. Click **Pricing Portal** in the **Products** section.
3. Click on the **Pricing Options** card.
4. Click **Edit**.
5. Select **Version 4** from the **Pricing Behavior** drop-down.
6. Click **Update**.

Pricing Related Utility BML

The **Populate Charges** BML populates calculated pricing information for charges array. This BML is invoked from the Commerce library 'system_calculations_process' when it is invoked from Transaction Line Advanced Default - After Formulas.

Prices Array Set

The Prices Array Set (`oRCL_charges`) is present in line level it is used to hold the prices and charges information of an item.

This arrayset is used in OIC mappings to generate the payload for Fusion Order Management integration. Commerce library "oRCL_fOM_populateCharges" included in the Commerce Standard Process is used to populate this arrayset with all the applicable charges defined for an item in the pricing portal.

The following attributes are added in the array set.

Attribute Name	Variable Name	Description	Expected Value
Charge Name	<code>oRCL_chargeName</code>	Name of the charges	Example Values <ul style="list-style-type: none">• Sale Price• Recurring Sale Price
List Price	<code>oRCL_listPrice</code>	List Price of the item	
Charge Type	<code>oRCL_chargeType</code>	Charge Type of the item. This attribute name is no longer a standard attribute in CPQ release 23C	ORA_SALE
Charge Type	<code>_s_oRCL_chargeType</code>	Charge Type of the item. This new attribute will replace <code>oRCL_chargeType</code> attribute from CPQ release 23C onwards.	
Net Price	<code>oRCL_netPrice</code>	The price paid by the customer for this item.	
Sequence Number	<code>oRCL_chargeSequenceNumber</code>	Sequence number of the charges	
Apply To	<code>oRCL_applyTo</code>	On which type of price it is applied	Price
Primary Charge	<code>oRCL_primaryCharge</code>	Primary charge is used to determine whether the charge is primary or not.	true / false
List Amount	<code>oRCL_listAmount</code>	The extended list amount for this line.	

Attribute Name	Variable Name	Description	Expected Value
Net Amount	oRCL_netAmount	The extended list amount minus any discounts for this line.	
Custom Discount Amount	oRCL_customDiscountAmount	The amount by which to adjust the list price because of a custom discount.	
Discount Amount	oRCL_discountAmount	The discount amount for this line.	
Contract List Value	oRCL_contractListValue	The total of all contract list value of this line, including all one-time and recurring charges	
Contract Discount Amount	oRCL_contractDiscountAmount	The total discount of this line including all one-time and recurring charges.	
Contract Net Amount	oRCL_contractNetValue	The total contract value of this line including all one-time and recurring charges.	
Price Type	_s_oRCL_priceType	Indicates whether the amount on this line is charged once or periodically. This attribute is available from CPQ Release 23C onwards.	
Price Period	_s_oRCL_pricePeriod	The time period, frequency or recurrence with which the price or charge is levied. This attribute is available from CPQ Release 23C onwards.	
Price Unit of Measure	_s_oRCL_priceUOM	The unit of measure of usage for usage charges, which generally differs from the unit of measure used for the parent product. This attribute is available from CPQ Release 23C onwards.	
Custom Discount Type	_s_oRCL_customDiscountType	The type of custom discount applied to this charge. Typically this may be an override price, a discount value, or a discount percentage. This attribute is available from CPQ Release 23C onwards.	
Charge Definition Integration ID	_s_oRCL_chargeDefIntegrationId	The charge definition code in the integrated order management system. This was added in 23D.	

Oracle CPQ Account Integration

This section identifies the library functions that support account integration and the manual changes that administrators must make to the INT_SYSTEM_DETAILS Data Table and the INT_SYSTEM_TEMPLATES Data Table to support account integration.

Note: For more details about Account Integration with Oracle Customer Data Management (CDM), refer to CPQ-CDM Integration Whitepaper on [My Oracle Support](#) under CPQ to Fusion Financials Integration (Doc ID 2012010).

Library Functions

The library functions within this section support the CDM integration by retrieving account details.

String getTemplateLocation(String system, String operation)

Queries the template location from the INT_SYSTEM_TEMPLATES Data Table based on the system and operation. This is a Commerce library function.

The Return Type, input information, and attributes used by this library function are shown in the following image.

The screenshot shows the 'Commerce BML Library Function Editor: Properties & Parameters' window. It contains the following information:

- Name:** getTemplateLocation
- Variable Name:** getTemplateLocation
- Description:** Queries the template location from the datatable INT_SYSTEM_TEMPLATES based on the System and Operation.
- Return Type:** String
- Parameters Table:**

#	Parameter Name	Parameter Type
1	system	String
2	operation	String

Below the properties section is the 'Function Editor' area, which includes tabs for 'Attributes', 'Function Wizard', 'Debugger', and 'Library Function(s)'. Under 'Library Function(s)', there are three sections: 'Main Document Attribute', 'Sub Document Attribute', and 'System Attribute'. The 'Sub Document Attribute' section shows a table with one entry: transactionLine.

String invokeWebService(String system, String soapReq)

This is a Commerce library function that invokes Web Services and returns the response.

The Return Type, input information, and attributes used by this library function are shown in the following image.

The screenshot shows the 'Commerce BML Library Function Editor: Properties & Parameters' window. It contains the following information:

- Name:** invokeWebService
- Variable Name:** invokeWebService
- Description:** Invokes Web service and returns the response.
- Return Type:** String
- Parameters Table:**

#	Parameter Name	Parameter Type
1	system	String
2	soapReq	String

Refer to [Appendix D: Miscellaneous Commerce Library Functions](#) for BML scripts.

Manual Data Table Changes

The INT_SYSTEM_DETAILS and INT_SYSTEM_TEMPLATES data tables are added to the CPQ site for account integration.

INT_SYSTEM_DETAILS

System (Key)	Username	Endpoint	Description
TCA-OrgService	<Enter the username here to call the web service endpoint>	<Enter the web service endpoint to call the service related to TCA>	TCA Find Organization details
TCA-AccService	<Enter the username here to call the web service endpoint>	<Enter the web service endpoint to call the service related to TCA>	TCA customer Account

As shown in the following image, administrators must manually select the **Key** option for the **System** column.

#	Index	Key	Type	Name	Description	Date Added	Date Modified	Validation Type
1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	String	System		10/24/2017 10:22 AM	02/01/2021 8:19 AM	None
2	<input type="checkbox"/>	<input type="checkbox"/>	String	Description		10/24/2017 10:22 AM	02/01/2021 8:19 AM	None
3	<input type="checkbox"/>	<input type="checkbox"/>	String	Username		10/24/2017 10:22 AM	02/01/2021 8:19 AM	None
4	<input type="checkbox"/>	<input type="checkbox"/>	Secure	Password		10/24/2017 10:22 AM	03/15/2021 2:15 PM	None
5	<input type="checkbox"/>	<input type="checkbox"/>	Integer	MaxLinesInPayload		10/24/2017 10:22 AM	02/01/2021 8:19 AM	None
6	<input type="checkbox"/>	<input type="checkbox"/>	String	Endpoint		02/01/2021 8:19 AM	02/01/2021 8:19 AM	None
7	<input type="checkbox"/>	<input type="checkbox"/>	String	SoapEndpoint		10/24/2017 10:22 AM	02/01/2021 8:19 AM	None

INT_SYSTEM_TEMPLATES

System (Key)	Operation (Key)	Templates
TCA-OrgService	FindOrg	<Enter the template URL path that is uploaded in File Manager>
TCA-AccService	FindAcc	<Enter the template URL path that is uploaded in File Manager>

As shown in the following image, administrators must manually select the **Key** option for the **System and Operation** columns.

#	Index	Key	Type	Name	Description	Date Added	Date Modified	Validation Type	Validation Mapping
1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	String	System		10/24/2017 10:22 AM	02/01/2021 8:19 AM	None	
2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	String	Operation		10/24/2017 10:22 AM	02/01/2021 8:19 AM	None	
3	<input type="checkbox"/>	<input type="checkbox"/>	String	Template		10/24/2017 10:22 AM	02/01/2021 8:19 AM	None	

Add Template Dependencies to File Manager

Oracle CPQ administrators must add the Find Organization payload template file and the Customer Account payload template file to File Manager. These template files support account integration.

Perform the following steps to add the template dependencies to File Manager.

1. Download the **findOrganizationPayload.txt** and **customerAccountPayload.txt** payload template files from [My Oracle Support](#).
2. Navigate to the Admin Home page.
3. Navigate to **File Manager** under **Utilities** category and create a new folder named **TCA**.
4. Click **Browse** under **Add Files**. The Choose File to upload dialog opens.
5. Navigate to the findOrganizationPayload.txt file and click **Open**.
6. Click **Add File**. The findOrganizationPayload.txt file displays in File Manager.
7. Complete steps 2-6 for the customerAccountPayload.txt file.

Note: To view the BML included in the payload template files, refer to [Appendix C: Payload Template Files](#).

Appendix A: Workflows

Appendix A1: Create Order – Standard Item Workflow

OIC is the middleware used to establish an integration between CPQ and Order Management. Once this integration is established, sales users can use CPQ to create a Transaction and invoke OIC integration to create an order in Order Management. Perform the following steps in Oracle CPQ to create a standard order.

1. Navigate to the Transaction Manager.
2. Click **New Transaction**. The Transaction page opens.
3. Add Standard products to the line item using Quick Add.

The screenshot shows the Oracle CPQ Transaction Manager interface. At the top, there are buttons for Refresh, Save, Submit, Create Order, Version Transaction, Customer Details, Alternate Order, and Update Line Item. Below these are tabs for Transaction Details, Customer Details, and Pricing Details. The Transaction Details section contains several input fields: Transaction Name (11), Owner (Sales User), Status (Created), Transaction Number (CPQ-171-36677682), Created Date (02/02/2021), Last Updated (04/01/2021 9:40 AM), Version (1), Last Updated By (Super User), Business Unit Name, Order Number, Default Request Date, Order Date, and Ordered By. Below this is a section for Line Items (LIG) with a toolbar containing icons for View, Add, Edit, Delete, and Freeze. A table of line items is displayed below the toolbar:

#D	Product #	Quantity	Status	Fulfillment Status	Contract Start Date	Contract End Date	Req Date	Action Code	Instance ID
2	AS92888	1	Created	Created	02/02/2021	02/01/2022		Add	abo_8242ff68-d621-4b76-9a68-1de9fcc96bac
3	AS92888	1	Created	Created	04/01/2021	03/31/2022		Add	abo_b607dc8e-fa5f-48f9-8685-6702d6e5c181

At the bottom of the LIG section, there are buttons for Add Line Item and Copy Line Items.

4. Edit the Transaction and Transaction Line details as required.
5. Click **Save**.
6. Click **Create Order**.
7. Order Number, Order Status, and Fulfillment Id for each line are returned from Order Management on successful creation of order.

The screenshot shows the Oracle CPQ Transaction Manager interface after the transaction has been updated. The Status field is now Processing, and the Order Number is 527641. The LIG table shows the fulfillment status for each line item:

#Doc	Product #	Quantity	Status	Fulfillment Status	Contract Start Date	Contract End Date	Req Date	Action Code	Fulfillment ID	Change Reason	CI
2	AS92888	1	Created	Being Fulfilled	02/02/2021	02/01/2022		Add	300100551483970		
3	AS92888	1	Created	Being Fulfilled	04/01/2021	03/31/2022		Add	300100551483977		

Note: Use Oracle Order Management to check the order creation using returned Order Number.

Appendix A2: Create Order – Configurable Item Workflow

Perform the following steps in Oracle CPQ to create a configurable item order.

1. Open Model Configuration.
2. Select the root model.
3. Select the **addOptionalClass** check box.
4. Click **Update**. This will display optional class available for the root model.

Model Configuration

Update Start Over Create Transaction

OM_SI_ATO_MODEL
 addOptionalClass

Select	Lead Time	Comment	Price	Extended Description 2	Part Number	Extended Description 1	Description	Units	Direct Buy	Quantity	Product Group
<input checked="" type="checkbox"/>			Not Defined		OM_SI_ATO_MODEL					1	
<input checked="" type="checkbox"/>			Not Defined		OM_SI_ATO_MODEL1_OC1					1	
<input checked="" type="checkbox"/>			On Request	View...	OM_SI_ATO_MODEL1_OC1_OI1	View...			Direct Buy	1	

5. Click **Create Transaction**. This will create new transaction with the configurable items.

Transaction

Refresh Save Submit Create Order Version Transaction Customer Details Alternate Order Update Line Item

Transaction Details Customer Details Pricing Details

Transaction Name: Owner: Sales User * Status: Created
 Transaction Number: CPQ-406-36717898 Created Date: 03/26/2021 Last Updated: 03/26/2021 11:17 AM
 Version: 1 Last Updated By: Sales User Default Request Date:
 Business Unit Name: Vision Operations Order Number: Order Date:
 Ordered By:

LIG

#Doc	Product #	Quantity	Status	Fulfillment Status	Contract Start Date	Contract End Date	Req Date	Action Code	Fulfillment ID	Change Reason	CF
2	OM_SI_ATO_MODEL	1	Created	Created	03/26/2021	03/25/2022		Add			
3	OM_SI_ATO_MODEL1_OC1	1	Created		03/26/2021	03/25/2022		Add			
4	OM_SI_ATO_MODEL1_OC1_OI1	12	Created		03/26/2021	03/25/2022		Add			

Page 1 of 1 (1-3 of 3 items) | < 1 > X

Add Line Item Copy Line Items

6. Edit the Transaction and Transaction Line details as required.
7. Click **Save**.
8. Click **Create Order**.
9. The Order Number, Order Status, and Fulfillment Id for each line are returned from Order Management on successful creation of order.

Notes:

- Use Order Management to check the order creation using the returned Order Number.
- BOM setup is required for the configuration.

Appendix A3: Auto Sync Status Workflow

Oracle Order Management allows customers to configure Business Events to be raised during various stages of fulfilment. We subscribe to these Business events through OIC integrations and invoke CPQ REST APIs to update vital information.

This functionality synchronizes the Order and Order Line status from Order Management to CPQ.

1. Create a transaction in CPQ.
2. Record the **Trigger Update Asset for Line Status** value.

The screenshot shows the 'Transaction' interface with the 'Troubleshooting and Support Controls' tab selected. It features several buttons: 'Submit', 'Cancel Approvals', 'Add Signature', and 'Alternate Order'. There are two text input fields. The first is labeled 'Create Order Rest Response' and contains three lines of JSON-like data: '2~status_I~CREATED|2~fulfillmentLineId_I~300100548924552|', '3~status_I~CREATED|3~fulfillmentLineId_I~300100548924562|', and '4~status_I~CREATED|4~fulfillmentLineId_I~300100548924565|'. The second is labeled 'Trigger Update Asset for Line Status' and contains the value 'AWAIT_BILLING~ACTIVATED~DEACTIVATED'.

3. Click **Create Order** to create an order in Order Management. Refer to [Appendix A1: Create Order – Standard Item Workflow](#).
4. Use Order Management to check the order creation using the Order Number returned on order creation.
5. When the Order/ Order Line status changes on Order Management, it should reflect the updated Status attribute in CPQ based on Order Status Mapping in OIC. Refer to [Appendix E: CPQ-OM Status Mapping](#).
6. If the line status in CPQ is one of the values in 'Trigger Update Asset for Line Status', the Update Asset functionality will also be triggered, and Fulfilment Status will be updated to 'Fulfilled'.
7. Open the Subscription Workbench page and observe the asset is created for the Fulfilled lines.

Appendix A4: Full Order Cancellation

This workflow supports the cancellation of full order (all lines).

1. Navigate to the commerce and open the transaction in which order was created.
2. Validate there is an order number associated with the transaction.
3. Validate the order is in processing status.
4. Click the **Select All** option in the Line Item Grid.
5. (Optional) Select the cancellation reason in the transaction details.
6. Click **Cancel Order**.

The screenshot displays the Oracle CPQ interface for a transaction. At the top, the 'Transaction' header includes buttons for Refresh, Save, Submit, Version Transaction, Customer Details, **Cancel Order** (highlighted in red), Alternate Order, and Update Line Item. Below this, the 'Transaction Details' tab is active, showing fields for Transaction Name, Number (CPQ-358-36712012), Version (1), Business Unit Name (Vision Operations), Owner (Super User), Created Date (03/17/2021), Last Updated By (Super User), Order Number (523906), Status (Processing), Last Updated (04/01/2021 10:17 AM), Default Request Date, Order Date (03/17/2021 9:16 AM), and Ordered By (Super User).

Below the transaction details is the 'LIG' (Line Item Grid) section. It features a toolbar with various icons and buttons like 'Customer Assets' and 'Get SO Status from FOM'. The grid table has columns: #Doc, Product #, Quantity, Status, Fulfillment Status, Contract Start Date, Contract End Date, Req Date, Action Code, and Instance ID. Two rows are visible, both with a checked selection box in the #Doc column:

#Doc	Product #	Quantity	Status	Fulfillment Status	Contract Start Date	Contract End Date	Req Date	Action Code	Instance ID
3	AS54888	1	Created	Created	04/01/2021	03/31/2022		Add	abo_2a42a210-84bb-4088-9b12-406e39cace35
4	AS92888	1	Created	Created	04/01/2021	03/31/2022		Add	abo_4aa00005-7e26-4b9b-ae32-443223974e26

At the bottom of the grid, there is a pagination bar showing 'Page 1 of 1 (1-3 of 3 items)' and '2 selected'. Buttons for 'Add Line Item' and 'Copy Line Items' are also present.

7. After the cancellation action is complete, verify the line item status is updated to Cancellation Requested or Cancelled.

Appendix A7: Renewal Subscription Workflow

OSS Renewal consolidation process picks up all the eligible subscription products to get renewed and it submits an event for OIC to create the renewal quote.

Note: With **Oracle CPQ 24B release**, renewal subscription supports the following 2 item structures:

- Single Subscription Product with/without coverage subscription product.
- PTO model with only Optional Items.

1. OSS Ess job “Automatically Renew Eligible Subscriptions” will consolidate all the eligible subscription products and create a draft subscription.
2. OIC “OSS CPQ CreateRenewalQuote” listens for Subscription creation event (ORA_DRAFT status) as follows:
 - a. Creates an opportunity.
 - b. Creates Quote Header and all lines for all the received renewal subscription products.
 - c. Generates the proposal and prints the document.
 - d. Syncs the Revenue lines.
3. Open the transaction in CPQ:
 - a. In OIC, navigate to Observe tab and Instances section and then click on OSS CPQ CreateRenewalQuote.
 - b. Open the Activity Stream for the latest Subscription event.
 - c. Navigate to Step “**While CreateQuoteHeaderRetry**”, expand the iteration and View step “**Logger LogCreatedQuoteHeader**” to get the transaction id.

The screenshot displays the Oracle CPQ Activity Stream for an instance with ID o58TeODzEe6ADA1Qa6PPWw. The interface includes tabs for Design, Deploy, and Observe. The activity stream shows a tracing level of Audit and a sequence of events:

- 10:09:26.427 AM: While CreateQuoteHeaderRetry (1 iteration)
- undefined Iteration: 1
 - 10:09:27.024 AM: Invoke CreateQuoteHeader
 - 10:09:27.712 AM, 1ms: **Logger LogCreatedQuoteHeader** (highlighted in blue). The log message is: `{Created Quote Header : '38642018'}`
 - 10:09:27.715 AM: Message received by Assignment ResetRetryVariables2
 - 10:09:27.715 AM: Logger LogGettingAssetKeys
 - 10:09:27.715 AM, 86ms: Data Mapping completed

- d. Open the Transaction.
4. Root level transaction line contract start and end dates are stamped for all of the child level transaction lines.
 5. Edit the Transaction and other Transaction Line details as needed.

6. Click **Save** and **Create Order**.

Notes: With the **Oracle CPQ 24B release**, the renewal subscription is supporting the following two item structures:

- Please check the OSS Renewal Template to get Renewal Consolidation grouping parameters and based on which it consolidates all the eligible subscription products to renew.

- Please ensure the OSS Renewal Template has the following values set:
 - Either the Renewal Process should be Manual or the Customer Acceptance Required should be marked as Required
 - Minimum Renewal Duration is as low as possible (for example, 10 days)
 - Consolidate subscriptions are checked
 - Internal Approved is Required

Appendix A8: Amend Order – Standard Item Workflow

Sales users can use CPQ to create a Transaction and invoke OIC integration to create an order in Order Management. Perform the following steps in Oracle CPQ to create a standard order.

1. Navigate to the Transaction Manager.
2. Click **New Transaction**. The Transaction page opens.
3. Enter the Customer Details and Click **Customer Assets**. The Customer Assets UI page opens.

4. Select the item and Click Modify. Item will be added to the Transaction Line Details.

Subscription Workbench: [?](#) Back

▼ Account Information

Account Name

Account Id

View ▼

Product	Product Description	Service Identifier	Start Date	End Date	Status
IOT-01	Supremo IOT Data S...	IOT-01-38900493-1	05/15/2024 7:00 PM	05/14/2025 7:00 PM	Active
SPS-01	Supremo Power Sub...	SPS-01-39059883-1	05/21/2024 7:00 PM	05/20/2025 7:00 PM	Active
GENH-102	Supremo Power Hyb...	GENH-102-390600...	05/21/2024 7:00 PM	05/20/2025 7:00 PM	Active
SPS-01	Supremo Power Sub...	SPS-01-39060003-1	05/21/2024 7:00 PM	05/20/2025 7:00 PM	Active
GENH-102	Supremo Power Hyb...	GENH-102-390601...	05/21/2024 7:00 PM	05/20/2025 7:00 PM	Active
SPS-01	Supremo Power Sub...	SPS-01-39060187-1	05/21/2024 7:00 PM	05/20/2025 7:00 PM	Active

5. Amend the transaction line (Change in Subscription Tier or Plan, Adjustment of Subscription Quantity, Extension of Subscription, Adding or Removing Features or Price Adjustments).
6. Select the Change Code and Change Reason.
7. Click **Save**.
8. Click **Create Order**.
9. Order Number, Order Status, and Fulfilment Id for each line are returned from Order Management on successful creation of order.

Notes:

- As part of 24D, Amendment is supported for Standard Subscription Item only.
- Add Change Reason and Change code to Line-Item Grid if not already added.
- Use Oracle Order Management to check the order creation using returned Order Number.

Appendix A9: Cancel Auto Renewed Quote and Subscription

This workflow supports the cancellation of Renewed quote and subscription (all lines).

1. Navigate to the commerce and open the transaction in which auto renewal quote was created.
2. Validate there is a renewed subscription number populated under “Renew Draft Subscription Number”.
3. (Optional) Select the cancellation reason in the transaction details.
4. Click **Cancel Transaction**.

The screenshot shows the Oracle Commerce Transaction Details page. The top navigation bar includes buttons for 'Save', 'nkp', 'Get Account Details', 'Customer Rejection', 'Update Asset', 'Submit!', 'Return to CX', 'Update Opportunity', 'Cancel Transaction', 'Back', and 'Generate F'. The 'Cancel Transaction' button is highlighted with a red box. Below the navigation bar, the page is divided into several tabs: 'Transaction Details', 'Customer Info', 'Pricing', 'Approvals', and 'Troubleshooting & Support'. The 'Transaction Details' tab is active, showing various fields for quote and customer information. The 'Renew Draft Subscription Number' field is highlighted with a red box and contains the value 'CDRM_290e5'. Other fields include 'Quote', 'Quote Name', 'Quote #', 'Version', '*Status*', 'Win/Loss Status', 'In Progress', 'Price Score', 'My Approval[Submit]', and 'Approval History[Submit]'. The 'Owner' field is 'Albert M', 'Customer Company' is 'Computer Service and Rentals', and 'Created' is '02/12/2025'. The 'Contract Start Date' is '02/12/2025' and 'Contract End Date' is '02/11/2026'. The 'Expiration Date' is 'testAct'.

5. After the cancellation action is complete, verify the header and line item status is updated Cancelled.

Notes:

The following changes were made to the Standard Process for this feature:

1. New Commerce Library was added.

Script Name: Cancel Renewed Subscription

Variable Name : `_s_cancelRenewedSubscription`

2. New Commerce Integration of Type = BML was added

Name: Cancel Renewed Subscription

Variable Name: `cancelRenewedSubscription`

3. For the Commerce Action with variable name `order_cancel` under the Integration tab, move Commerce Integration "Cancel Renewed Subscription" to "Selected Integration" section.

4. New menu item values were added to Transaction attribute `cancelReason_t` and Transaction Line attribute `cancelReason_1` respectively.

Displayed Text	Variable Name
Pricing	ORA_PRICING
Suspended	ORA_SUSP

5. New Access rule was added under Transaction to hide “Cancel Transaction” action.

Name: Hide Cancel Transaction Action

Variable Name: `_s_hideCancelTransactionAction`

6. Changes were made to the Commerce Library `system_calculations_convertQuoteToObj` to include relevant attributes such as `renewDraftSubscriptionNumber_t` and `cancelReason_t` in the main doc dictionary.

7. The following changes were made to the Commerce Library `system_calculations_process`:

- Set `cancelReason_t` to `ORA_PRICING` when `renewDraftSubscriptionNumber_t` is populated.
- If the Transaction header attribute `status_t` is set to `CANCELED` or if it is empty then set the `status_1` attribute on all the Transaction Lines to the same value.

Appendix A10: Create Inflight Subscription

This workflow creates Inflight subscription on successful order creation.

1. On Successful order creation as part of create order flow another OIC Integration triggers which creates inflight subscription Header and Subscription products which will be in DRAFT status.
2. Once the Order Management flow completes and then the Inflight subscription gets activated.

Appendix B: BML

BML – Process Create Order Response

This BML is used to process the rest response received from Create Order ICS integration. It is associated with Create Order(`order_start`) action.

BML Input Attributes:

- Transaction: `createOrderRestResponse`
- Transaction Line: `_document_number, _line_bom_parent_id`

```
retStr = "";
if(createOrderRestResponse <> ""){
    for line in transactionLine {
        if (line._line_bom_parent_id == "") {
            retStr = retStr + line._document_number + "~fulfillmentStatus_1~BEING_FULFILLED|";
        }
    }
    retStr = retStr + createOrderRestResponse;
}
return retStr;
```

BML - Get Account Details

The BML for the Get Account Details action is used to support account integration. When sales users enter a customer company name and click Customer Details, the BML retrieves the `PrimaryPartyId`, `BillToAccountId`, and `BillToSiteUseld` fields from the Oracle EBS Customer Data Management application:

```
//1. Get Template Location
returnPartyId = "";
defaultErrorMessage = "";
errorString = "Error in TCA Service";
organizationSoapResponse = "";
if(isnull(_transaction_customer_id) OR _transaction_customer_id == "")
{
    system="TCA-OrgService";
    operation="FindOrg";

    organizationSoapRequestLocation = commerce.getTemplateLocation(system, operation);

    //payload = commerce.getUserAttributes(system);

    organizationSoapRequest=applytemplate(organizationSoapRequestLocation ,dict("string"),
    defaultErrorMessage);
    print "request";
    print organizationSoapRequest;
    print "response";
    organizationSoapResponse = commerce.invokeWebService(system, organizationSoapRequest );
    print organizationSoapResponse;

    xpaths = string[1];
    xpaths[0] = "//ns2:PartyId";

    output = readxmlsingle(organizationSoapResponse, xpaths);
    if (containskey(output,xpaths[0]))
        { returnPartyId = get(output,xpaths[0]); }
    else {
        returnPartyId = "Check if customer company name is valid & also TCA service is up.";
        returnSiteNumber = "Check if customer company name is valid & also TCA service is up" ;
    }
}
```

```

        return
"1~invoiceToPartyID_t~"+returnPartyId+"|1~_s_accountPartyId_t~"+returnPartyId+"|"+"1~billToSiteUseId_t~"+r
eturnSiteNumber+"|";
}
}else{
returnPartyId = _transaction_customer_id;
}

// Get Template Location
system="TCA-AccService";
operation="FindAcc";

customerAccountSoapRequestLocation = commerce.getTemplateLocation(system, operation);
//payload1 = commerce.getUserAttributes(system,returnPartyId);
payload1 = dict("string");
put(payload1,"returnPartyId",returnPartyId);

customerAccountSoapRequest=applytemplate(customerAccountSoapRequestLocation,payload1,
defaultErrorMessage);
print customerAccountSoapRequest;

customerAccountsoapResponse = commerce.invokeWebService("TCA-AccService", customerAccountSoapRequest);
print customerAccountsoapResponse ;

xpathAcct = string[1];
xpathAcct[0] = "//ns2:CustomerAccountId";
returnAccountNumber = "" ;
outputAcct = readxmlsingle(customerAccountsoapResponse, xpathAcct);
if (containskey(outputAcct,xpathAcct[0]))
    { returnAccountNumber = get(outputAcct,xpathAcct[0]); }
else {
        returnAccountNumber = "Check if customer company name is valid & also TCA service is
up";
        returnSiteNumber = "Check if customer company name is valid & also TCA service is up ";
return
"1~_s_accountPartyNumber_t~"+returnAccountNumber+"|"+"1~billToSiteUseId_t~"+returnSiteNumber +"|";
}
returnBillToSiteUseId="";
xpathsbilltositeuseid = string[1];
xpathsbilltositeuseid[0] =
"//ns2:Value/ns2:CustomerAccountSite/ns2:CustomerAccountSiteUse[ns2:SiteUseCode='BILL_TO' and
ns2:PrimaryFlag='true']/ns2:SiteUseId";
outputbilltositeuseid = readxmlsingle(customerAccountsoapResponse, xpathsbilltositeuseid);
if (containskey(outputbilltositeuseid ,xpathsbilltositeuseid[0])) {
        returnBillToSiteUseId= get(outputbilltositeuseid,xpathsbilltositeuseid[0]); }
else {
        returnBillToSiteUseId= "Check if customer company name is valid & also TCA service is up. ";
}
xpathCustomerAccountSiteUse = string[1];
// get the XML Element called Customer AccountSiteUse where primary is true and use is BILL TO
xpathCustomerAccountSiteUse[0] =
"//ns2:Value/ns2:CustomerAccountSite/ns2:CustomerAccountSiteUse[ns2:SiteUseCode='BILL_TO' and
ns2:PrimaryFlag='true']";

outputCustomerAccountSiteUse = readxmlsingle(customerAccountsoapResponse, xpathCustomerAccountSiteUse);
returnSiteId = "";
if (containsKey(outputCustomerAccountSiteUse,xpathCustomerAccountSiteUse[0]))
{
    CustomerAccountSiteUseXmlFragment = get(outputCustomerAccountSiteUse,xpathCustomerAccountSiteUse[0]);
    xpath1 = string[1];

```

```

    xpath1[0] = "//ns2:CustomerAccountSiteId";
    output1 = readxmlsingle(CustomerAccountSiteUseXmlFragment,xpath1);
    if (containsKey(output1,xpath1[0]))
    {
        returnSiteId = get(output1,xpath1[0]);
    }
}
if (returnSiteId == "") {
    returnSiteId = errorString;
}

partySiteId = "";
xpathCustomerAccountSite = string[1];
// get the XML Element called Customer AccountSite where ID = returnSiteId
xpathCustomerAccountSite[0] = "//ns2:Value/ns2:CustomerAccountSite[ns2:CustomerAccountSiteId=" +
returnSiteId + "]";

outputCustomerAccountSite = readxmlsingle(customerAccountsoapResponse, xpathCustomerAccountSite);

if (containsKey(outputCustomerAccountSite,xpathCustomerAccountSite[0]))
{
    CustomerAccountSiteXmlFragment = get(outputCustomerAccountSite,xpathCustomerAccountSite[0]);

    xpath2 = string[1];
    xpath2[0] = "//ns2:PartySiteId";
    output2 = readxmlsingle(CustomerAccountSiteXmlFragment,xpath2);
    if (containsKey(output2,xpath2[0]))
    {
        partySiteId = get(output2,xpath2[0]);
    }

    if (partySiteId == "") {
        partySiteId = errorString;
    }
}

partySiteNumber = "";
xpathPartySiteNumber = string[1];
// get the XML Element called Customer AccountSite where ID = returnSiteId
xpathPartySiteNumber[0] = "//ns2:Value/ns2:PartySite[ns1:PartySiteId=" + partySiteId + "]";

outputPartySiteNumber = readxmlsingle(organizationSoapResponse, xpathPartySiteNumber);

if (containsKey(outputPartySiteNumber,xpathPartySiteNumber[0]))
{
    PartySiteNumberXmlFragment = get(outputPartySiteNumber,xpathPartySiteNumber[0]);

    xpath3 = string[1];
    xpath3[0] = "//ns1:PartySiteNumber";
    output3 = readxmlsingle(PartySiteNumberXmlFragment,xpath3);
    if (containsKey(output3,xpath3[0]))
    {
        partySiteNumber = get(output3,xpath3[0]);
    }
}

return
"1~invoiceToPartyID_t~"+returnPartyId+"|1~_s_accountPartyId_t~"+returnPartyId+"|"+"1~_s_accountPartyNumber

```

```
_t~"+returnAccountNumber+"|"+"1~billToSiteUseId_t~"+returnBillToSiteUseId  
+"|"+"1~_customer_id~"+returnPartyId+"|";
```

Appendix C: Payload Template Files

The BML associated with the payload template files referenced in Add Template Dependencies to File Manager follows.

findOrganizationPayload.txt

```
<?xml version="1.0"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body
xmlns:ns1="http://xmlns.oracle.com/apps/cdm/foundation/parties/organizationService/applicationModule/types/">
    <ns1:findOrganization>
      <ns1:findCriteria xmlns:ns2="http://xmlns.oracle.com/adf/svc/types/">
        <ns2:filter>
          <ns2:conjunction>And</ns2:conjunction>
          <ns2:group>
            <ns2:conjunction>And</ns2:conjunction>
            <ns2:item>
              <ns2:conjunction>And</ns2:conjunction>
              <ns2:attribute>PartyName</ns2:attribute>
              <ns2:operator>=</ns2:operator>
              <ns2:value>{{customerCompanyName_t}}</ns2:value>
            </ns2:item>
          </ns2:group>
        </ns2:filter>
      </ns1:findCriteria>
      <ns1:findControl xmlns:ns3="http://xmlns.oracle.com/adf/svc/types/">
        <ns3:retrieveAllTranslations/>
      </ns1:findControl>
    </ns1:findOrganization>
  </soap:Body>
</soap:Envelope>
```

customerAccountPayload.txt

```
<?xml version="1.0"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://xmlns.oracle.com/apps/cdm/foundation/parties/customerAccountService/applicationModule/types/"
xmlns:ns2="http://xmlns.oracle.com/adf/svc/types/">
  <soapenv:Body>
    <ns1:findCustomerAccount>
      <ns1:findCriteria>
        <ns2:filter>
          <ns2:conjunction>And</ns2:conjunction>
          <ns2:group>
            <ns2:conjunction>And</ns2:conjunction>
            <ns2:item>
              <ns2:conjunction>And</ns2:conjunction>
              <ns2:attribute>PartyId</ns2:attribute>
              <ns2:operator>=</ns2:operator>
              <ns2:value>{{returnPartyId}}</ns2:value>
            </ns2:item>
          </ns2:group>
        </ns2:filter>
      </ns1:findCriteria>
      <ns1:findControl>
        <ns2:retrieveAllTranslations>false</ns2:retrieveAllTranslations>
      </ns1:findControl>
    </ns1:findCustomerAccount>
  </soapenv:Body>
</soapenv:Envelope>
```

Appendix D: Miscellaneous Commerce Library Functions

The Oracle CPQ Order Management package adds several library functions to the Commerce process. This topic provides the BML associated with each of the library functions.

String getTemplateLocation(String system, String operation)

The code for this library function is provided the following for reference.

```
//1. Get Template File
templateUrl = "";
//bmqL query
resultSet = bmqL("Select Template from INT_SYSTEM_TEMPLATES where System = $system and Operation =
$operation");
//loop through the records
for record in resultSet {
templateUrl = get(record,"Template");
}
temp=split(templateUrl,"image")
return temp[1];
```

String invokeWebService(String system, String soapReq)

The code for this library function is provided the following for reference.

```
//1. Get webservice endpoint for the system
resultSet = bmqL("Select Endpoint,Username,Password from INT_SYSTEM_DETAILS where System = $system");
endpoint = "";
username = "";
password = "";
//loop through the records
for record in resultSet {
endpoint = get(record,"Endpoint");
username = get(record,"Username");
password = get(record,"Password");
}
//2. Invoke the web serviceheader
Values = dict("string");
put(headerValues, "Content-Type", "text/xml; charset=utf-8");
encodeCredential = encodebase64(username+"."+password);auth = "Basic " + encodeCredential;
put(headerValues,"Authorization",auth);
errorString = "Error in "+system+" invocation";
soapResponse= urldatabypost(endPoint , soapReq,errorString,headerValues,true);
// sends the soap call and returns response to variable.
print "going to print soapResponse";
//3. Return the response
return soapResponse;
```


Appendix E: CPQ-OM Status Mapping

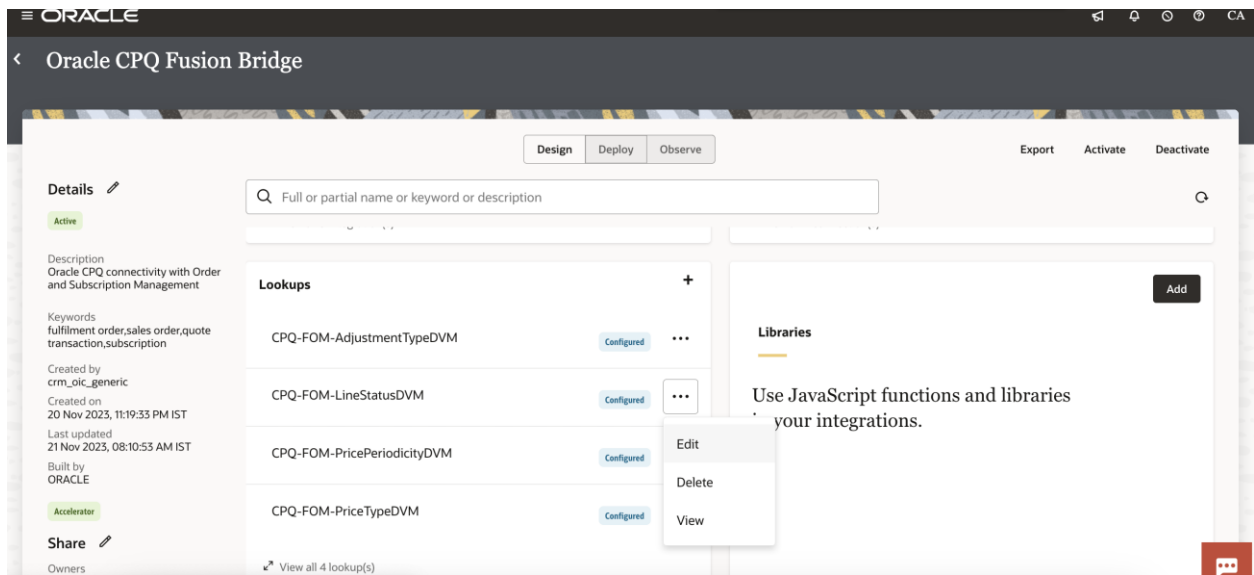
Map CPQ Line Status to Order Management Line Status

Update 24A or later:

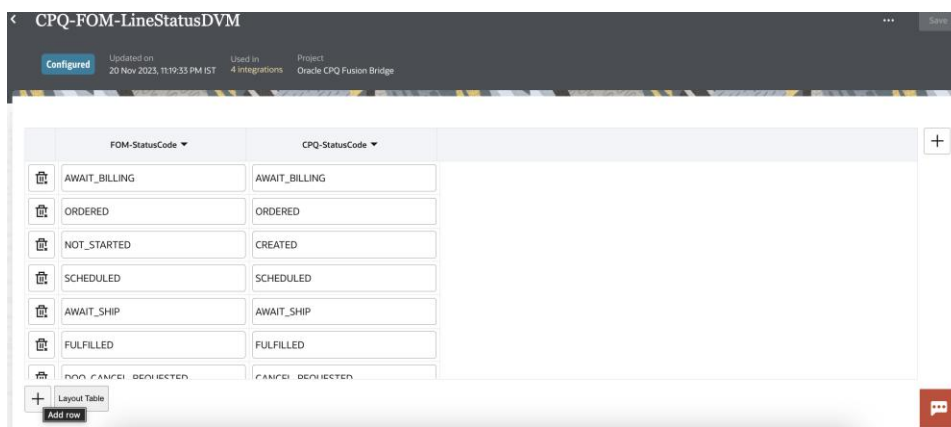
Administrators can use the CPQ-FOM-LineStatusDVM Lookup in OIC to map existing CPQ status codes with the Order Management status codes.

Perform the following steps to modify Lookups defined in OIC

1. Log in to the OIC application.
2. Select **Projects** in the left side navigation panel, and then click on project **Oracle CPQ Fusion Bridge**
3. In the Lookups Panel, click on 3 dots  and Edit option for the corresponding lookup.



4. Click on the Add Row icon (+) at the bottom of the mapping table to add a new mapping.




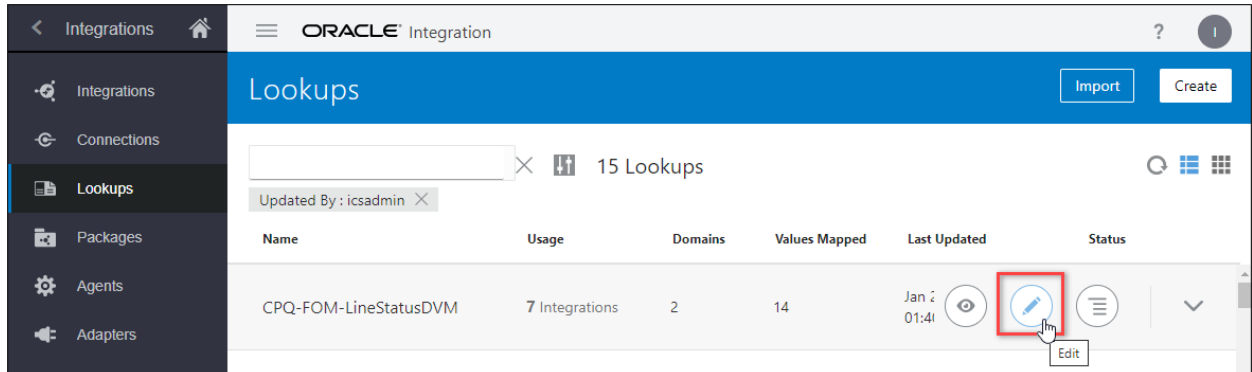
5. Add the FOM Status code in the 'FOM-StatusCode' column and CPQ status code in the 'CPQ-StatusCode' column.
6. Click **Save** after all modification are complete.
7. A dialog window opens listing the integrations using this lookup. Record those integrations, save the window, and then reactivate these integrations to apply the changes.

Update 23B, 23C, or 23D:

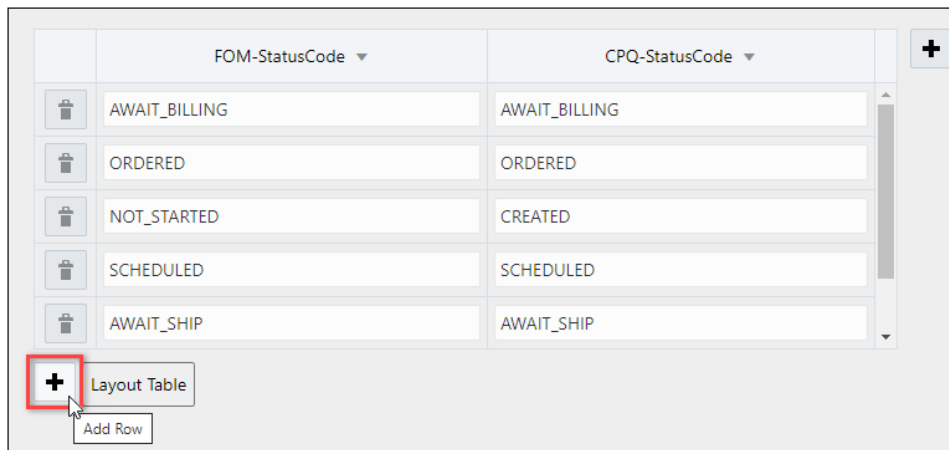
Administrators can use the CPQ-FOM-LineStatusDVM Lookup in OIC to map existing CPQ status codes with the Order Management status codes.

Perform the following steps to modify Lookups defined in OIC

1. Log in to the OIC application.
2. Select **Integrations** in the left side navigation panel, and then select **Lookups**.
3. If required, search for the applicable Lookup.
4. Click the Edit icon  for the corresponding lookup.



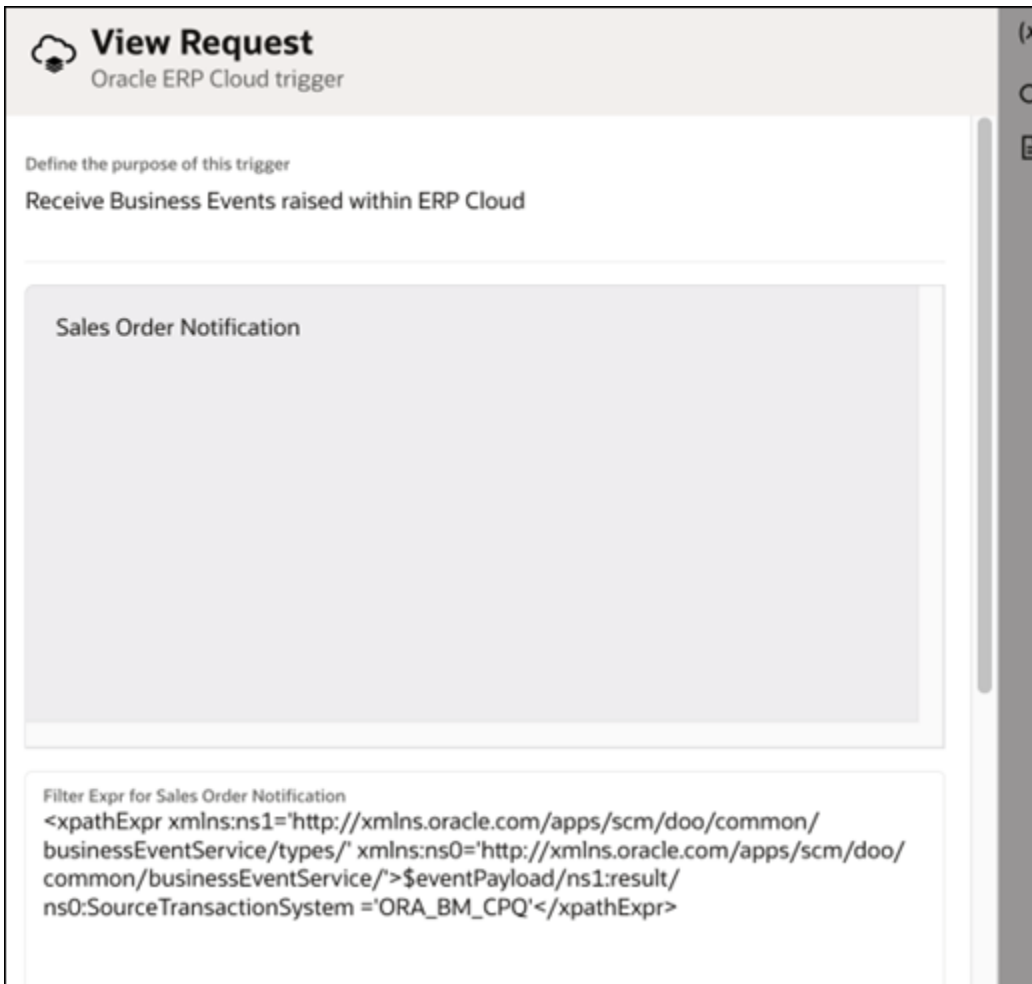
5. Click on the Add Row icon (+) at the bottom of the mapping table to add a new mapping.



6. Add the FOM Status code in the 'FOM-StatusCode' column and CPQ status code in the 'CPQ-StatusCode' column.
7. Click **Save** after all modification are complete.
8. A dialog window opens listing the integration(s) using this lookup. Record those integrations and then reactivate these integrations to apply the changes.

Appendix E1: OIC Integration – FOM CPQ SalesOrderFulfillmentSync

The integrations FOM CPQ SalesOrderFulfillmentSync (Update 25D and later) uses Oracle ERP Cloud adapter to subscribe to order management **Sales Order Notification** business event.



There is a filter expression defined to subscribe to the events for only those orders that were originated from CPQ by specifying the Source System 'ORA_BM_CPQ' in the filter expression.

In Order Management, Sales Order Notification business event is raised for an order each time any of the following condition occurs:

- Update order header status
- Update fulfillment line status
- Close fulfillment line

Whenever the above events are raised, this integration is invoked and the quote header status and line fulfillment status are updated in Oracle CPQ. Note that Quote line fulfillmentStatus will be updated based on the CPQ fulfillment API call.

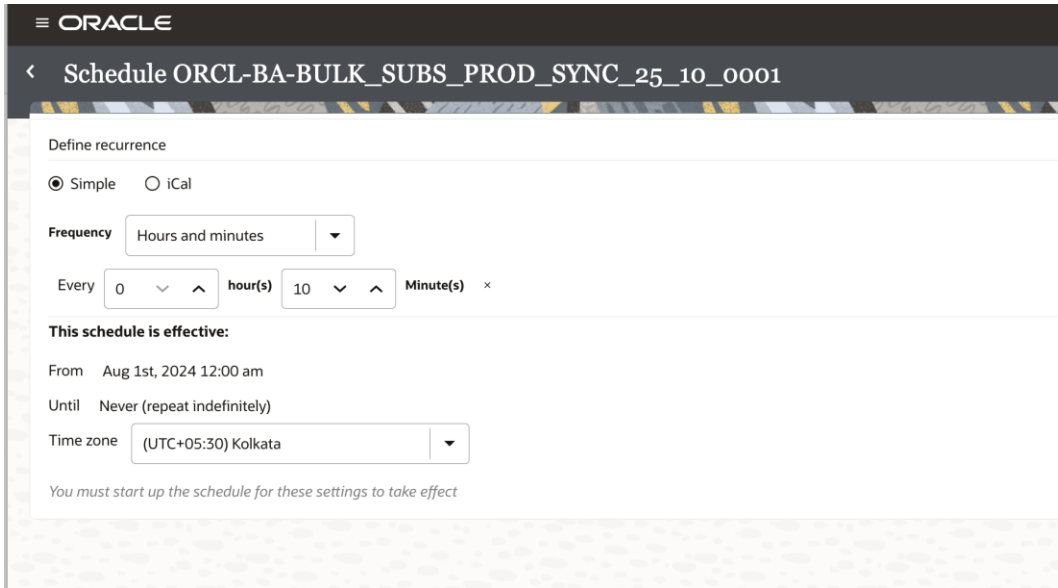
To enable business events in Order Management for different Fulfillment Status of order orchestration process, refer to the **Order Management Setup** section.

Notes:

- Fulfillment Status for which business events are enabled can only be synched back to Oracle CPQ.
- The CPQ Integration User should have Read/Write permissions on the status attributes which are being updated through this integration.

Appendix E2: OIC Integration – OSS CPQ BulkSubscriptionProductSync

The integration OSS CPQ BulkSubscriptionProductSync (Update 25D or later) uses Oracle Scheduler component is configured to run every 10 minutes as shown below.



The screenshot shows the Oracle Scheduler configuration interface. At the top, the Oracle logo is visible. Below it, the job name 'Schedule ORCL-BA-BULK_SUBS_PROD_SYNC_25_10_0001' is displayed. The configuration is titled 'Define recurrence' and includes the following settings:

- Define recurrence:** Simple iCal
- Frequency:** Hours and minutes
- Every:** 0 hour(s) 10 Minute(s) ×
- This schedule is effective:**
 - From:** Aug 1st, 2024 12:00 am
 - Until:** Never (repeat indefinitely)
 - Time zone:** (UTC+05:30) Kolkata

A note at the bottom states: "You must start up the schedule for these settings to take effect".


This integration collects all the subscription products Activated, Closed, Terminated, etc. after the given date and time in OSS. If the subscription product is created through the Oracle CPQ flow (Source System = 'ORA_BM_CPQ'), it calls via CPQ Bulk Asset API to update the asset.

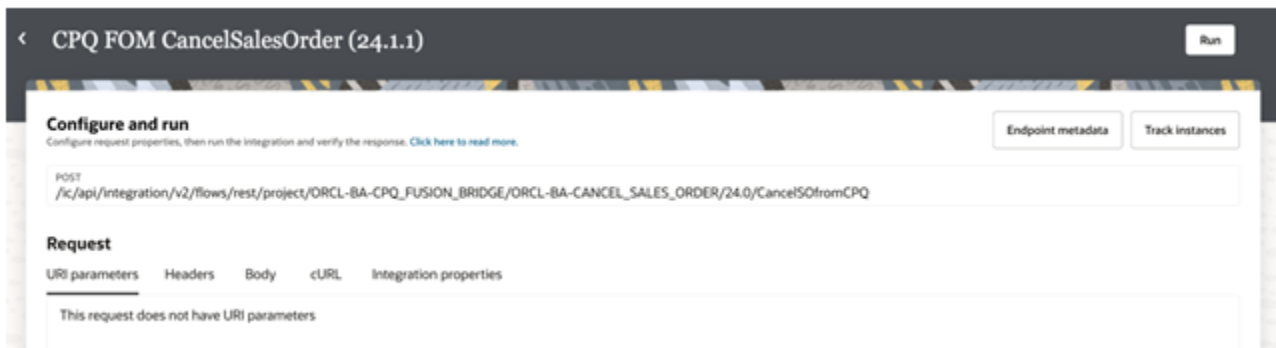
Appendix F: Retrieve OIC Integration Endpoint URL

Update 24A or later:

Integration endpoints are required for defining the Generic Integration in the Integration Center for the Cancel Order and Get Order Status flows.

Perform the following steps to retrieve an integration endpoint.


1. Log in to the OIC application.
2. Select **Projects** in the left side navigation panel, and then click **Oracle CPQ Fusion Bridge Project**.
3. **CPQ FOM CancelSalesOrder** integration:
 - a. Select **CPQ FOM CancelSalesOrder** Integration, click on 3 dots  and then click on the **Run** option. Configuration and Run UI displays.



- b. Click on the **Endpoint metadata** button. A page displays with the Endpoint URL in the Metadata tab section. Record the Endpoint URL. For example:

```
https://<OIC hostname>/ic/api/integration/v2/flows/rest/project/ORCL-BA-CPQ_FUSION_BRIDGE/ORCL-BA-CANCEL_SALES_ORDER/24.0/CancelSOfromCPQ
```

Note: The hostname is the OIC environment name.


4. **CPQ FOM CreateSalesOrder** integration:
 - a. Select **CPQ FOM CreateSalesOrder** Integration, click on 3 dots  and then click on the **Run Details** option. Run Details UI displays.
 - b. Record the Metadata URL. For example:

```
https://<OIC hostname>/ic/ws/integration/v2/flows/cpq/project/ORCL-BA-CPQ_FUSION_BRIDGE/ORCL-BA-CREATE_SALES_ORDER/24.0
```

Notes:

- The hostname is the OIC environment name.
- If the MetaData URL includes “?wsdl”, remove “?wsdl” to allow the integration to run successfully.


5. **FOM CPQ SalesOrderStatusSync** integration:

- a. Select **FOM CPQ SalesOrderStatusSync** Integration, click on 3 dots  and then click on the **Run Details** option. Run Details UI displays.
- b. Record the Metadata URL. For example:

```
https://<OIC hostname>/ic/ws/integration/v2/flows/erp/project/ORCL-BA-CPQ_FUSION_BRIDGE/ORCL-BA-SALES_ORDER_STATUS_SYNC/24.0
```

Note: The hostname is the OIC environment name.


6. **FOM CPQ GetSalesOrderStatus** integration:

- a. Select **FOM CPQ GetSalesOrderStatus** Integration, click on 3 dots  and then click on the **Run** option. Configure and Run UI displays.
- b. Click on the EndPoint metadata button. A page displays with the Endpoint URL in the Metadata tab section. Record the Metadata URL. For example:

```
https://<OIC hostname>/ic/api/integration/v2/flows/rest/project/ORCL-BA-CPQ_FUSION_BRIDGE/ORCL-BA-GET_SALES_ORDER_STATUS/24.0/GetSOSstatusfromFOM
```

Note: The hostname is the OIC environment name.


7. **CPQ OSS CancelRenewedSubscription** integration:

- a. Select **CPQ OSS CancelRenewedSubscription** Integration, click on 3 dots  and then click on the **Run** option. Configure and Run UI displays.
- b. Click on the EndPoint metadata button. A page displays with the Endpoint URL in the Metadata tab section. Record the Metadata URL. For example:

```
https://<OIC hostname>/ic/api/integration/v2/flows/rest/project/ORCL-BA-CPQ_FUSION_BRIDGE/ORCL-BA-CANCEL_RENEW_SUBS/25.0/CancelRenewedSubscription
```

Note: The hostname is the OIC environment name.

8. **CPQ OSS CreateSubscription** integration:

- a. Select **CPQ OSS CreateSubscription** Integration, click on 3 dots  and then click on the **Run** option. Configure and Run UI displays.
- b. Click on the EndPoint metadata button. A page displays with the Endpoint URL in the Metadata tab section. Record the Metadata URL. For example:

```
https://<OIC hostname>/ic/api/integration/v2/flows/rest/project/ORCL-BA-CPQ_FUSION_BRIDGE/ORCL-BA-CREATE_SUBSCRIPTION/25.0/CreateSubscription
```

Note: The hostname is the OIC environment name.

Update 23B, 23C, or 23D:

Integration endpoints are required for defining the Generic Integration in the Integration Center for the cancel order and get order status flows.

Perform the following steps to retrieve an integration endpoint.

1. Log in to the OIC application.
2. Select **Integrations** in the left side navigation panel, and then select **Integrations**.
3. If required, search icon to find your integration (e.g. CancelSOFromCPQ).
4. Click the **Run** icon for the applicable integration. A pop-up window displays with the Metadata URL.

Name	Version	Style	Last Updated	Status
CancelSOFromCPQ Place cancellation request for whole order or ...	1.0.0	App Driven Orchestration	Mar 17th, 2021 09:03:33 AM CDT	Active
UpdateSoStatusFromFOM_Opt Latest Auto Sync Intg for Dev env.	1.0.0			Active

Metadata URL: <http://sitename.oracle.com:7003/ic/api/integration/v1/flows/rest/CANCELISOFROMCPQ/1.0/metadata>

5. Click on the Metadata URL link. A page will display with the Endpoint URL. Record the Endpoint URL.

Endpoint Description

Endpoint URL

<http://sitename.oracle.com:7003/ic/api/integration/v1/flows/rest/CANCELISOFROMCPQ/1.0/CancelISOfromCPQ>

Swagger

<http://sitename.oracle.com:7003/ic/api/integration/v1/flows/rest/CANCELISOFROMCPQ/1.0/metadata/swagger>

Open API

<http://sitename.oracle.com:7003/ic/api/integration/v1/flows/rest/CANCELISOFROMCPQ/1.0/metadata/openapi>

Appendix G: Limitations and Troubleshooting

Appendix G1: Limitations

OIC integration using the Rest Adapter has a 10MB limit in the size of a message that can be received by the adapter. If the request payload for create order exceeds 10MB in OIC, you will see the following error message.

```
"Content received of length <payload size> exceeds the maximum allowed threshold of 10485760 bytes"
```

Appendix G2: Troubleshooting

Resolve Issues with Create Order Action

If installing the CPQ Order Management package results in issues with the Create Order action, a workaround is available.

Perform the following steps to resolve issues with the Create Order action.

1. Open Oracle CPQ.
2. Select **Integration Center** under **Integration Platform**. The Integration Center opens.
3. Select the **ICS integration** from the left pane.
4. Unmark the **Enable Integration** check box to disable the integration.
5. Click **Save**.
6. Re-enable the ICS integration.
7. Click **Save**.

Assets Not Created in CPQ Assets Repository

- Check whether the business events are enabled for the Fulfilment status corresponding to status values mentioned in the CPQ attribute 'Trigger Update Asset for Line Status'.
- Check integration UpdateSOSStatusFromFOM instance in OIC for errors. If there are not any you do not find any UpdateSOSStatusFromFOM instance errors, there is an issue with the event subscription setup in OIC.

Blank Line Status on click of 'Get SO Status from FOM' button

If a line status becomes blank after clicking **Get SO Status from FOM**, it means that either the order management line status lookup code is not populated in the `status_l` attribute or the status mapping doesn't exist in OIC lookup **CPQ-FOM-LineStatusDVM** for the Order Management line status of that line.

To resolve this, either add a value in the `status_l` attribute or add mapping to the **CPQ-FOM-LineStatusDVM** lookup in OIC for that status.

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