

Oracle[®] Retail Process Orchestration and Monitoring User Guide



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The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

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Contents

Send Us Your Comments

Preface

1 Common User Interface Controls

Logging on to the Application	1-1
Navigation Area	1-2
Favorites	1-3
Mark as Favorite	1-4
Unmark as Favorite	1-5
Pin Favorite	1-5
Search Favorites	1-7
Edit Favorite Window	1-7
Tasks	1-9
Notifications	1-10
Notification Badge	1-11
Notification Sidebar	1-12
Search Bar	1-13
Filtering Panel	1-14
Grouping Panel	1-15
Results Panel - List View	1-16
Results Panel - Grouped View	1-17
Results Panel - Summarized View	1-18
Notifications Tab	1-19
Reports	1-22
Settings	1-22
Table Menu Options	1-23
Action Menu and Icons	1-24
View Menu	1-24
Screen Level Action - Icons and Buttons	1-25
Application Help and About Application Links	1-25

2 Process Orchestration and Monitoring

Batch Monitoring	2-1
Header	2-2
Schedule Tiles	2-4
Batch Jobs Header	2-7
Run Status Chart	2-7
Completed Batch Job Statistics	2-8
Active Batch Job Statistics	2-8
Batch Information	2-8
Execution Requests Window	2-9
Execution Requests	2-9
Execution Details	2-10
Agent Job Requests Window	2-10
Agent Job Requests	2-11
Scheduler Tasks	2-12
Nightly/Recurring Scheduler Tasks	2-13
Task Executions	2-13
Standalone Scheduler Tasks	2-15
Standalone Scheduler Tasks	2-15
Task Executions	2-17
Batch Cycle Details Screen	2-18
Header	2-18
External Dependencies	2-19
Inter-Schedule Dependencies	2-19
Schedule Links	2-20
Callbacks	2-20
Nightly and Recurring Batch Jobs	2-21
Action Menu and Icons	2-22
View Menu	2-23
Status Details for Job	2-23
Rerun Multiple Jobs	2-24
Standalone Batch Jobs	2-24
Left Pane of the Screen	2-25
Right Pane of the Screen	2-25
Action Menu and Icons	2-26
Standalone Execution Details	2-27
Batch Job Details	2-29
Execution Requests	2-30

Executions	2-31
Pre Dependencies	2-31
Post Dependencies	2-32
External Dependencies	2-32
Inter-Schedule Dependencies	2-32
Schedule Links	2-33
Callbacks	2-33
Callback - Payload Window	2-34
Callback - Info Window	2-34
Footer	2-35
Status	2-35
Scheduler	2-36
Execution Engine	2-36
Environment Statuses	2-36
Download Cycle Summary	2-37
Scheduler Administration Window	2-38
Execution Engine Configuration	2-38
Health Check	2-39
Activity Feed	2-40
System Configuration	2-43
Configure New Schedule	2-43
Schedule Settings and Connections Configuration	2-45
Edit Settings	2-49
Business Date Explained	2-51
Edit Throttling	2-52
Edit Environment	2-53
Job Agent Configuration Window	2-54
Edit External Configuration	2-56
Job Types	2-57
Create / Edit Job Type	2-57
System Settings	2-60
Edit System Settings	2-60
Remove Existing Schedule	2-61
Global Edit	2-62
Batch Administration	2-63
Batch Administration Header	2-63
Batch Tiles	2-68
Batch List	2-69
Actions Menu and Icons	2-69
View Menu	2-69
View Flow Diagram	2-70

Nightly	2-74
Recurring	2-79
Standalone	2-81
Batch Job Details	2-94
Scheduler Administration	2-96
Nightly Scheduler Task Administration	2-98
Recurring Scheduler Tasks Administration	2-100
Standalone Scheduler Tasks Administration	2-101
Schedule Maintenance	2-104
Download Files	2-106
Download Previous Configuration	2-106
Download POM Seed File	2-106
Footer	2-106
AMS Utilities	2-106
Manual Job Run	2-108
Override Job Status	2-108
Override Execution Request Status	2-109
Audit Events	2-111
Align Business Dates	2-112
Reports	2-113
Nightly Batch Summary	2-114
Batch Timings Bar Graph	2-117
Batch Failures	2-118
Batch Jobs Timeline	2-118

3 User Roles

Roles	3-1
Functional Access by Role	3-2

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Oracle® Retail Process Orchestration and Monitoring User Guide

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Preface

The *Oracle Retail Process Orchestration and Monitoring User Guide* describes the tracking and managing of batch jobs.

Audience

This guide is for system administrators and operations personnel, integrators and implementation staff personnel as well as users of the module.

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Oracle Retail Cloud Services and Business Agility

Oracle Retail (Product Name) Cloud Service is hosted in the Oracle Cloud with the security features inherent to Oracle technology and a robust data center classification, providing significant uptime. The Oracle Cloud team is responsible for installing, monitoring, patching, and upgrading retail software.

Included in the service is continuous technical support, access to software feature enhancements, hardware upgrades, and disaster recovery. The Cloud Service model helps to free customer IT resources from the need to perform these tasks, giving retailers greater business agility to respond to changing technologies and to perform more value-added tasks focused on business processes and innovation.

Oracle Retail Software Cloud Service is acquired exclusively through a subscription service (SaaS) model. This shifts funding from a capital investment in software to an operational expense. Subscription-based pricing for retail applications offers flexibility and cost effectiveness.

1

Common User Interface Controls

Oracle Retail applications, such as the Oracle Retail Process Orchestration and Monitoring (POM) application, include some common interface options and controls that you can use throughout the application workflow. The following sections describe these user interface controls in more detail.

Although you may have more than one Oracle Retail application installed on your system, each application may use many of the same interface components and abide by common rules and constraints.

You can quickly access the tasks of current applications and switch to other applications from the Navigation bar. For more information on the Navigation bar, see the [Navigation Area](#) section.

The following topics are covered in this chapter:

- [Logging on to the Application](#)
- [Navigation Area](#)
- [Table Menu Options](#)
- [Logging Out of the Application](#)

Logging on to the Application

To log on to the application:

1. Go to the URL for the application in a web browser.

The Welcome Screen opens.

Figure 1-1 Welcome Screen

ORACLE Cloud

rgbudev sandbox

Oracle Cloud Account Sign In

User Name

User name or email

Password

Password

Sign In

Need help signing in? [Click here](#)

[Cookie Preferences](#)

2. Provide the following login information:
 - a. Enter your user name in the **Username** field.
 - b. Enter your password in the **Password** field.
3. Click **Login**.

Navigation Area

You can quickly access the tasks of current applications and switch to other applications from the Navigation bar.

Figure 1-2 Navigation Bar



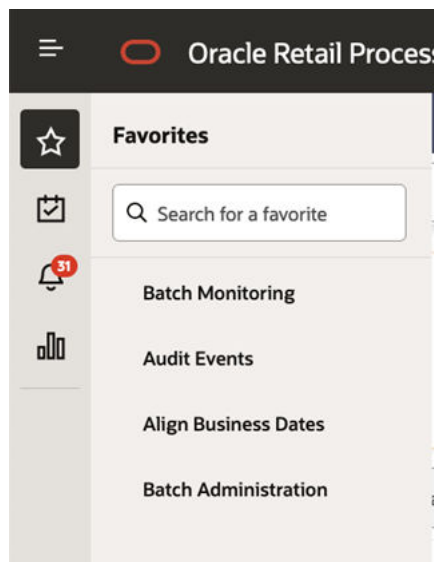
The following Navigation bar options are common across all the applications:

- [Favorites](#)
- [Tasks](#)
- [Notifications](#)
- [Reports](#)
- [Settings](#)

Favorites

The **Favorites** option provides the ability to bookmark the templates that are used frequently by a user. It provides quick and easy access to frequently used workflows. These bookmarks save you navigation time through the task list and allow you to access commonly used templates quickly. Favorites menu can be accessed using the star icon available on the left-side menu bar.

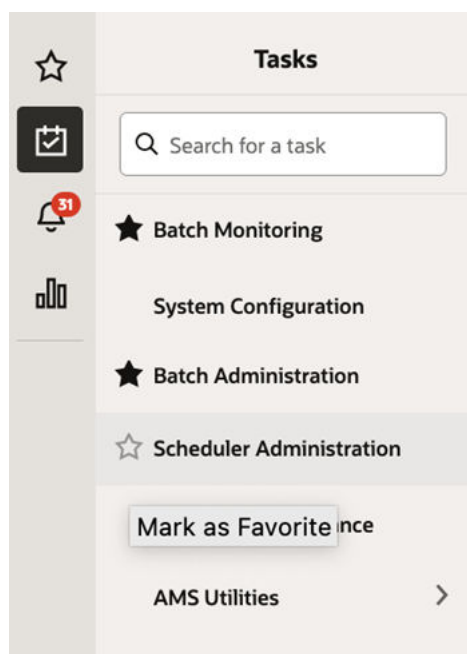
Figure 1-3 Favorites Menu



Mark as Favorite

By clicking the star icon next to a task name, you can add a task to the Favorites list. A full star next to a task name indicates that it is a Favorite. The icon is visible only when you hover over the task. New favorites are always added to the end of the list, and they can be reordered in the **Edit Favorites** page.

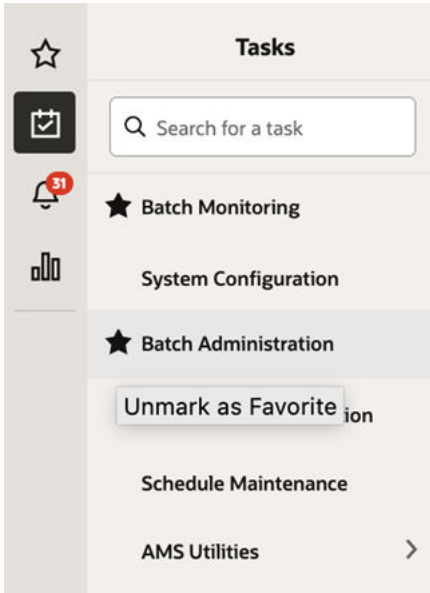
Figure 1-4 Mark as Favorite



Unmark as Favorite

By clicking the star icon next to a task name, you can remove a task from the Favorites list. An empty star next to a task name indicates that it is not a Favorite. The icon is visible only when you hover over on the task.

Figure 1-5 Unmark as Favorite



Pin Favorite

By clicking the pin icon in the Favorites menu, a favorite task can be pinned to the navigation bar to easily access them. A full pin next to a task name indicates that it is pinned. To unpin a task, click the pin icon again to display an empty pin icon. Pinned favorites can also be managed from the Edit Favorites page.

Figure 1-6 Pin Favorite

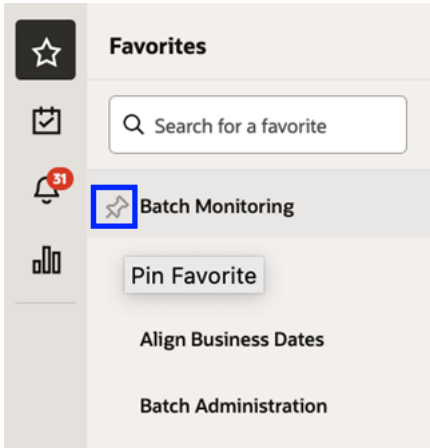
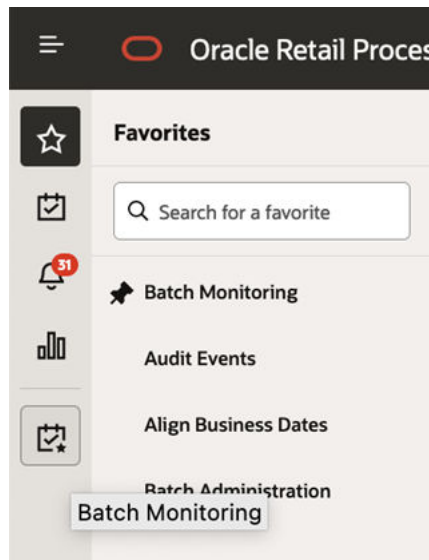
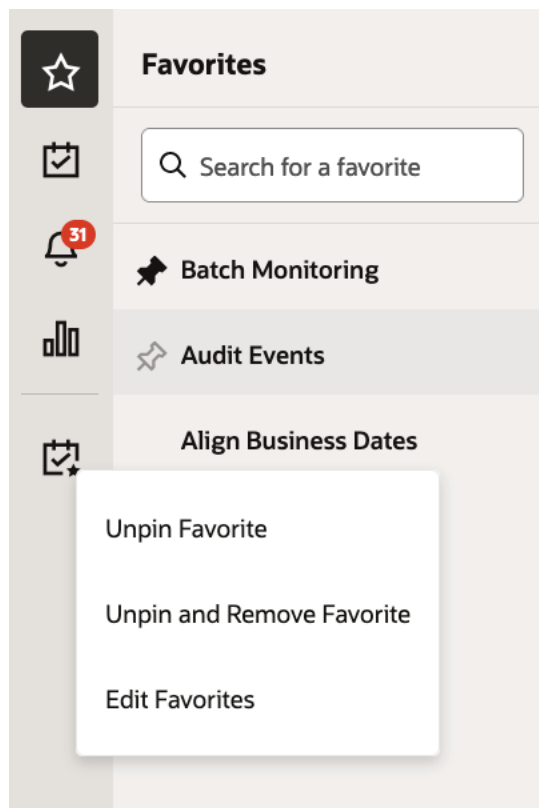


Figure 1-7 Pinned Favorite in Navigation Bar



You can also unpin or remove a pinned favorite on the navigation bar by using the context menu option, removing it from Favorites. The context menu option allows you to open the Edit Favorites page.

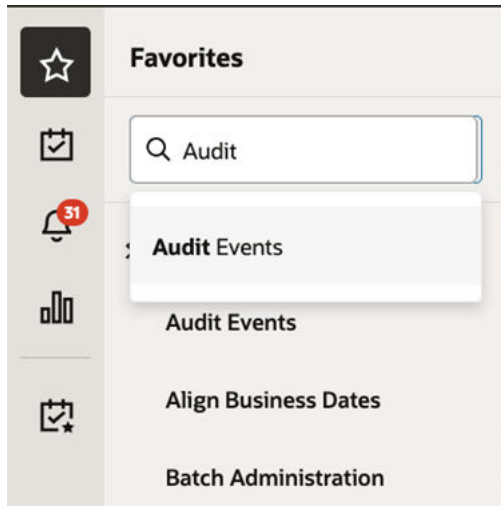
Figure 1-8 Unpin Favorite



Search Favorites

You can also search the bookmarked tasks in the Favorites menu by using the search option. Start typing in the search input to find the matching favorite task and then select a favorite from the search result to open that task.

Figure 1-9 Search Favorites



Edit Favorite Window

You can organize, rename, pin and unpin Favorites in the Edit Favorites window. Click **Edit Favorites** on the footer for the Favorites menu to open the Edit Favorites window.

Figure 1-10 Edit Favorite

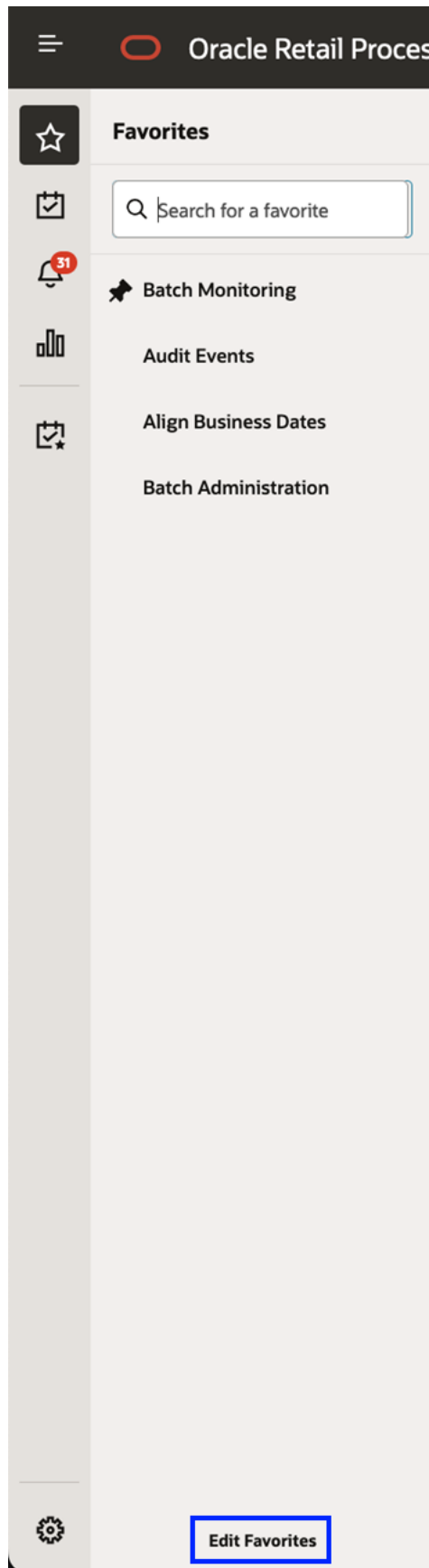
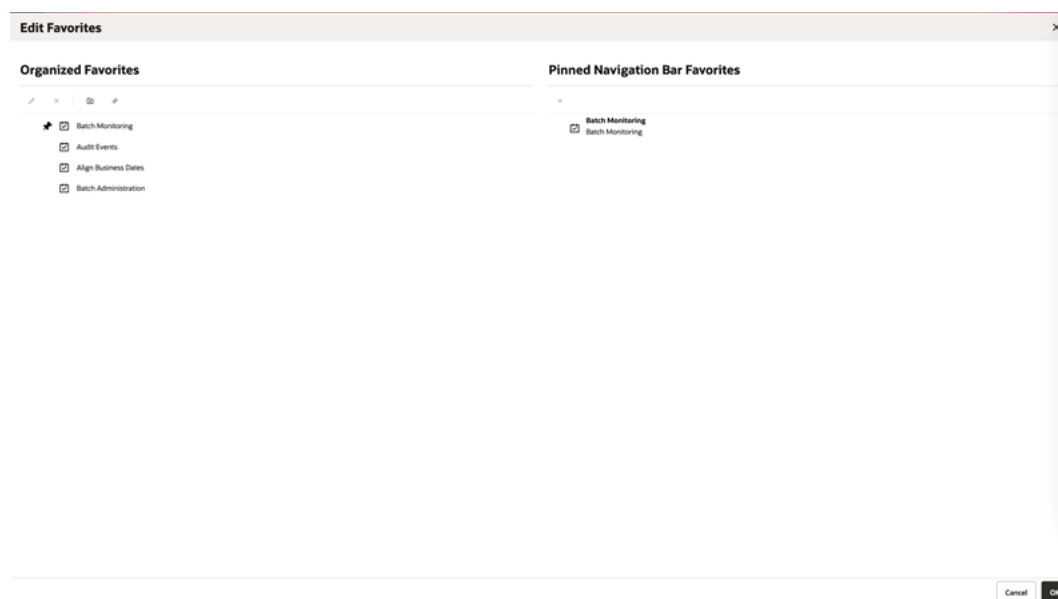


Figure 1-11 Edit Favorites Window

Following actions can be performed from Edit Favorites window:

- Create Folder
- Edit a Favorite or Folder
- Delete Favorite or Folder
- Organize Favorites
- Toggle a Pin
- Pinned Navigation Bar Favorites

Tasks

Oracle Retail applications support a variety of navigational tools and methods that allow you to move efficiently between application pages. Information on how to use and manage each of the tools and methods is included in this section.

A task is a set of links to a series of task flows organized in a specific sequence to accomplish a business process or procedure. For example, tasks can be defined for common multi-step procedures or processes so that you can quickly step through tasks. By navigating sequentially to the pages outlined in the task, you are assisted in stepping through the business process or activity.

Your Tasks list appears on the top left side of the home page. All of the tasks to which you have access are listed on the Tasks window. You can either click on the specific task name to open or use the Task Search component to search for a Task that you want to open.

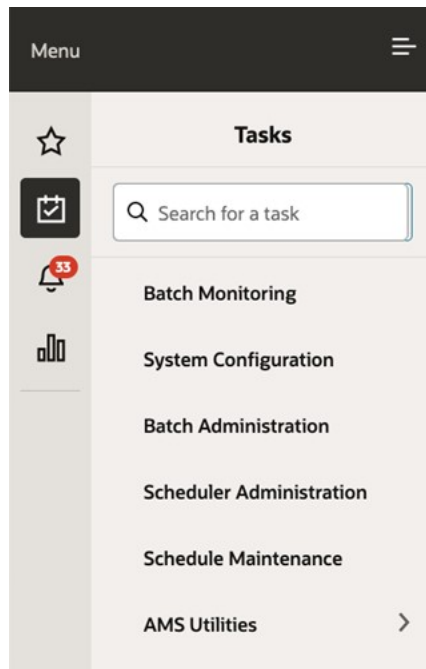
To begin working with a task, choose the application feature or process from the list.



Note:

Your task menu may appear slightly different, depending on your retail application.

Figure 1-12 Tasks Menu

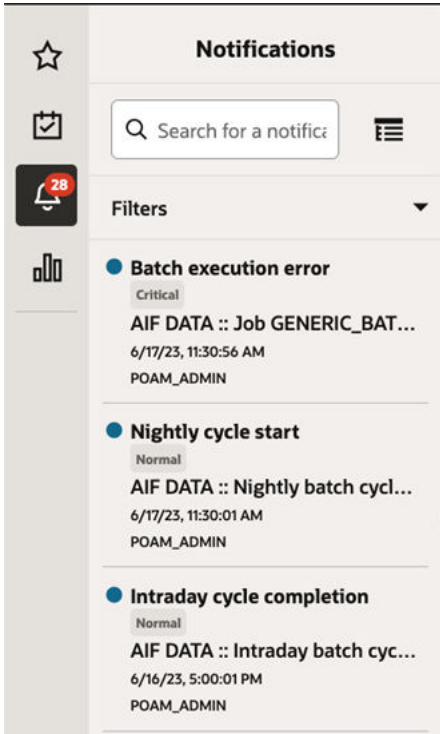


Notifications

The Notifications option brings events within the application to your attention.

See the following examples:

Figure 1-13 Notifications

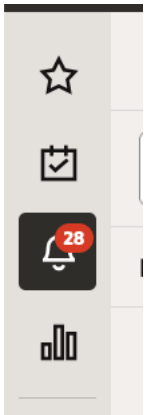


Notification Badge

The Notification Badge displays the number of unread notifications for the user in the sidebar menu. The Notification Badge displays '99+' when there are more than 99 notifications.

The notification count is periodically refreshed at regular intervals. This interval is determined by a system-configured value.

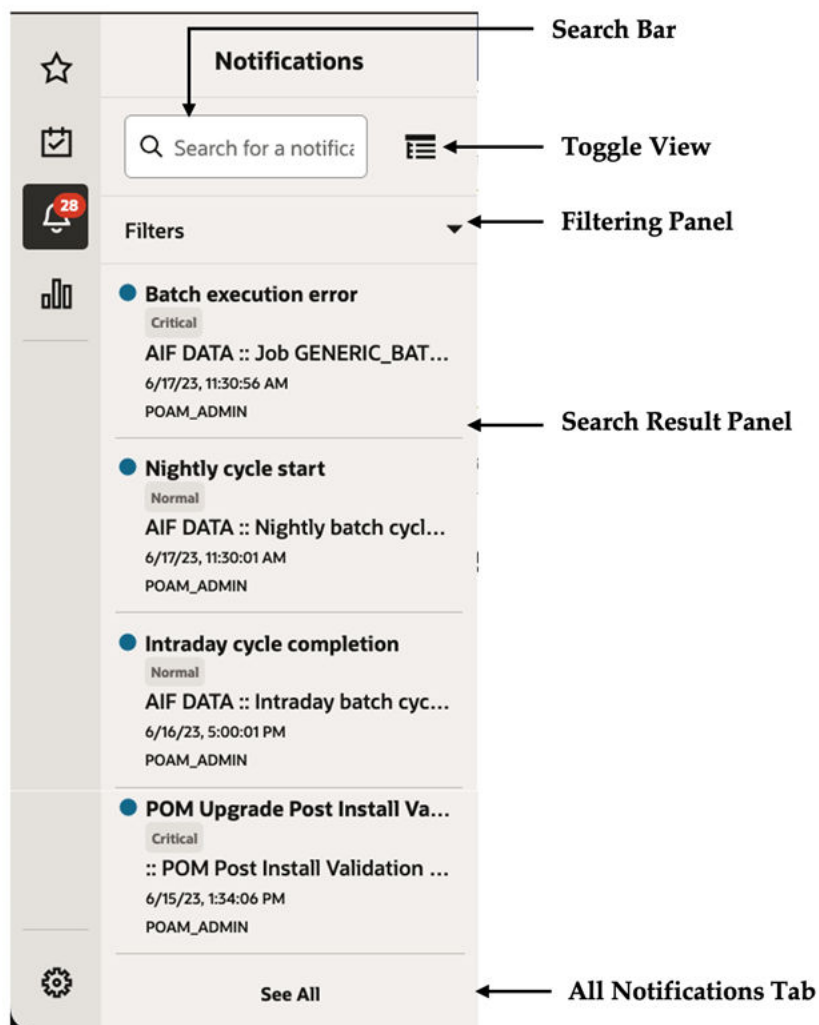
Figure 1-14 Notification Badge



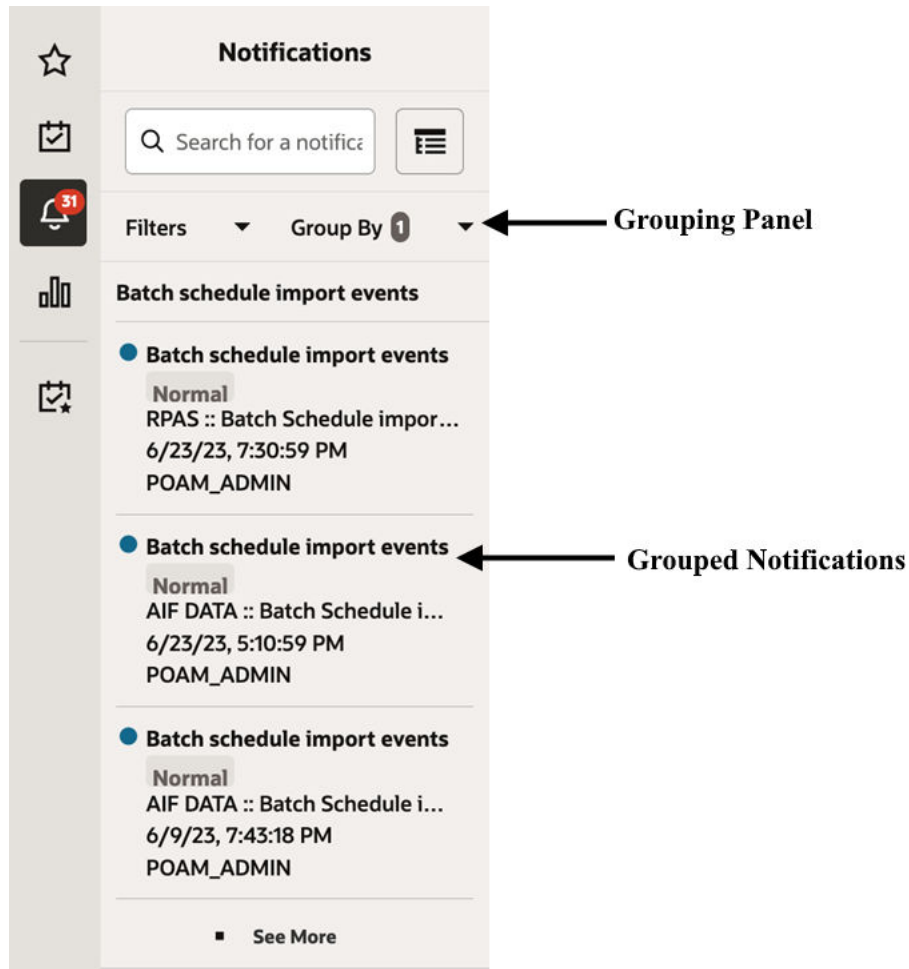
Notification Sidebar

When you click the Notification icon, a Notifications Sidebar is shown that displays the most recent set of unread notifications in the notifications screen (depending on the filter set).

Figure 1-15 Notifications Sidebar



When Toggle View is activated:



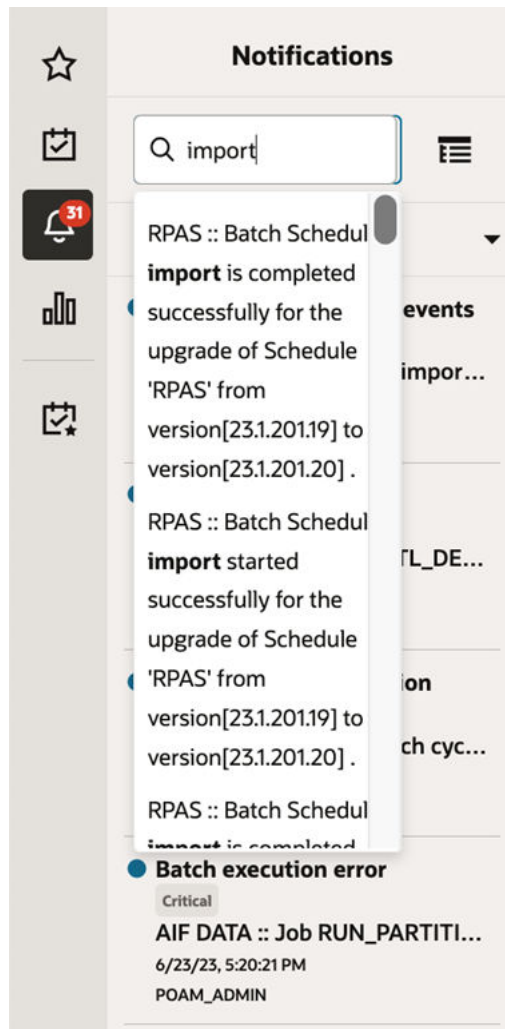
Each component of the Notifications Sidebar is discussed in detail in the following sections.

Search Bar

A search bar at the top of the panel allows for searching through notifications. The search bar has auto-suggest enabled, so it displays notifications as the user types.

Right next to the search bar is the 'List/Group' view toggle button. This causes the Notification results to be displayed either in a flat or grouped view.

Figure 1-16 Search Bar



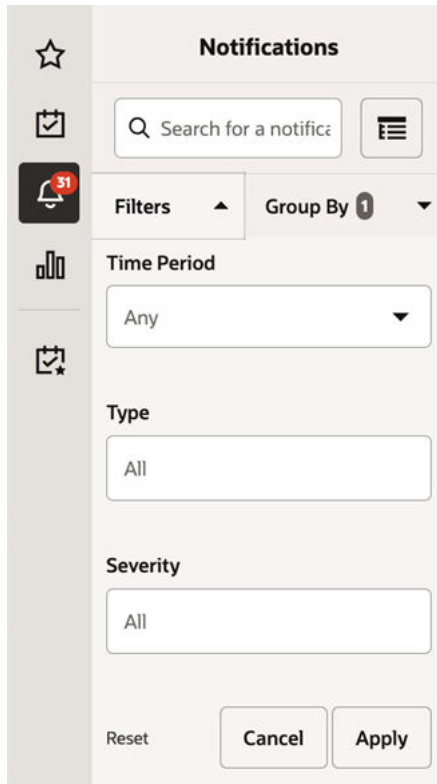
Filtering Panel

The Filtering Panel allows you to filter notifications based on the creation Time Period, Type and Severity.

The values for the Time Period and Severity components are pre-seeded constants. The Type drop-down lists all the notification types available in the system.

When you click the **Apply** button, notifications that match the criteria are shown in the Results Panel.

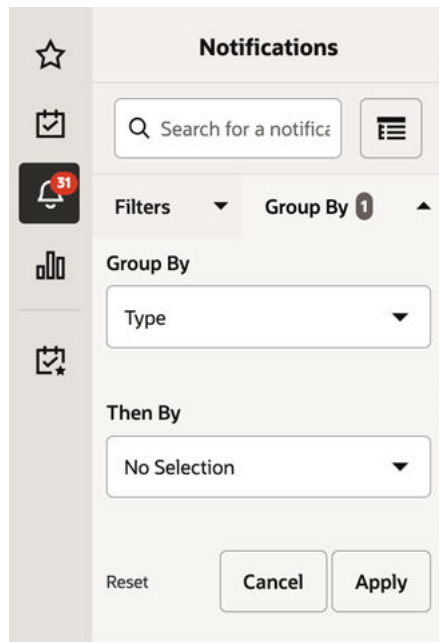
Figure 1-17 Filtering Panel



Grouping Panel

This panel allows you to group notifications based on different attributes.
The values of the 'Group by' and the 'Then by' components are pre-seeded.

Figure 1-18 Grouping Panel

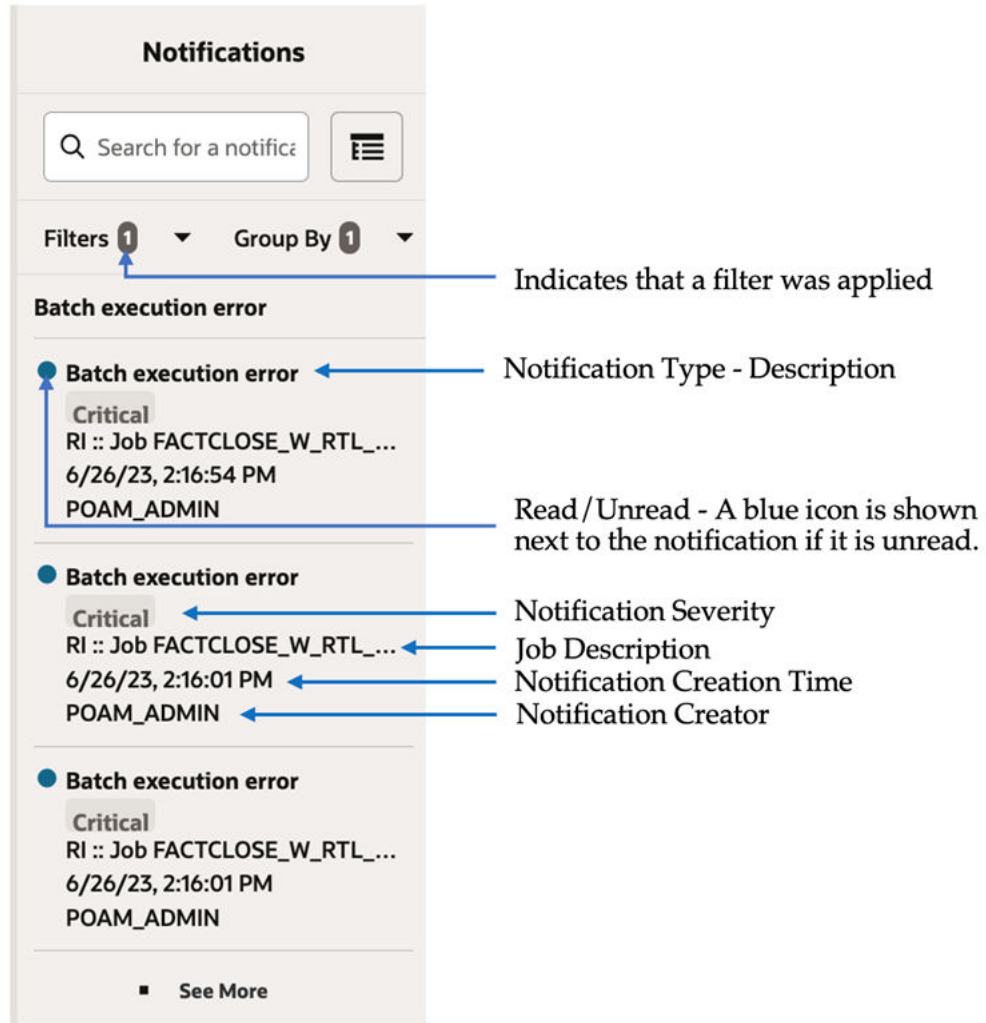


Results Panel - List View

When no selection is made in the Grouping panel, the Results Panel displays notifications in a list format.

The image below shows a simple search without any filtering or grouping.

Figure 1-19 Results Panel - List View



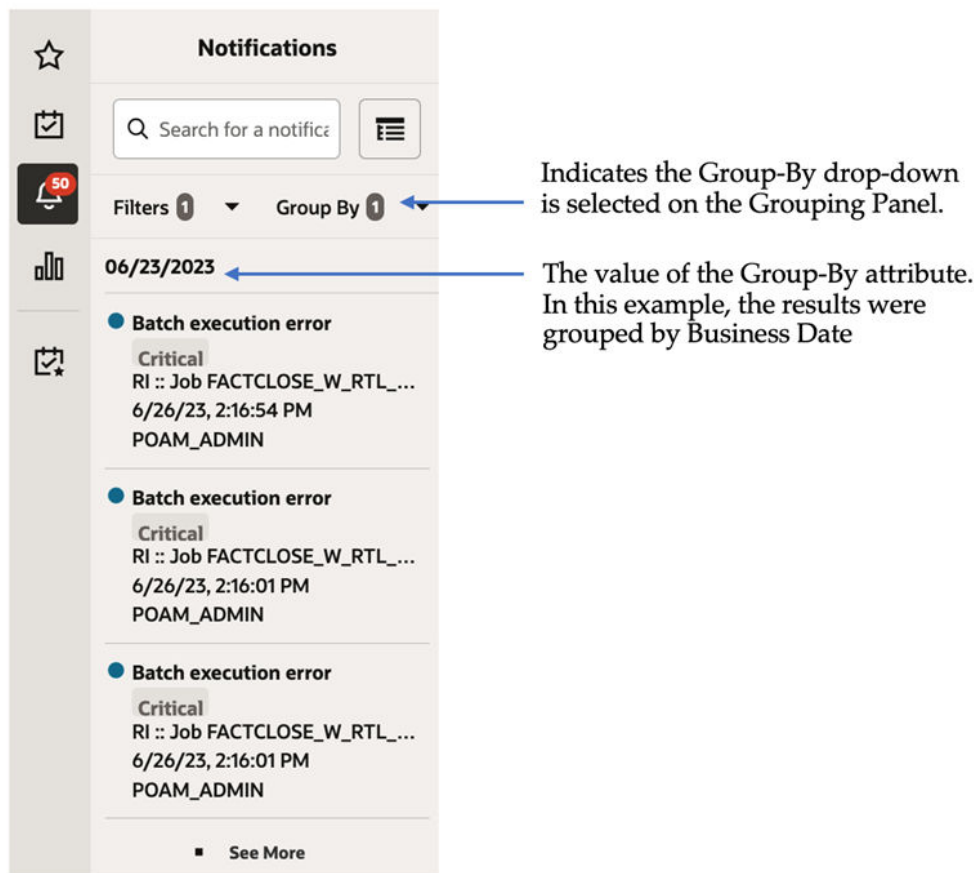
Results Panel - Grouped View

Results Panel - Grouped View

Notifications are displayed in a grouped format within the Results panel, when the Group By drop-down in the Grouping Panel is selected.

Notifications are displayed in groups with three notifications shown for each group.

Figure 1-20 Results Panel - Grouped View



For each group, three notifications are shown followed by a 'See More' link. When you click this link, up to 25 notifications are displayed for that group.

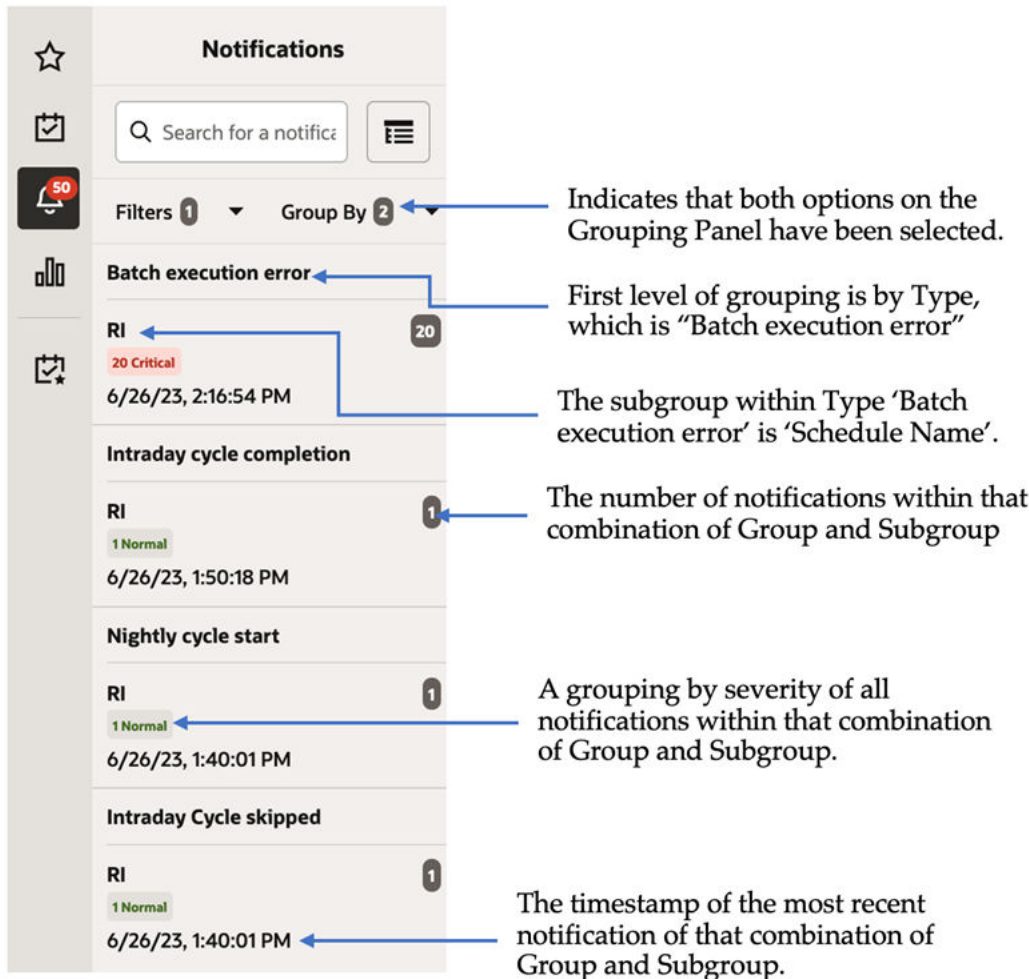
Results Panel - Summarized View

Notifications are summarized as shown in this example, when both the Group By and the Then By dropdowns in the Grouping Panel are selected.

The summary view displays various groups and within them subgroups based on the selections on the Grouping panel. For each subgroup, a count of the notifications within that subgroup, grouped by severity is displayed.

The example here depicts a grouping by department, then by class.

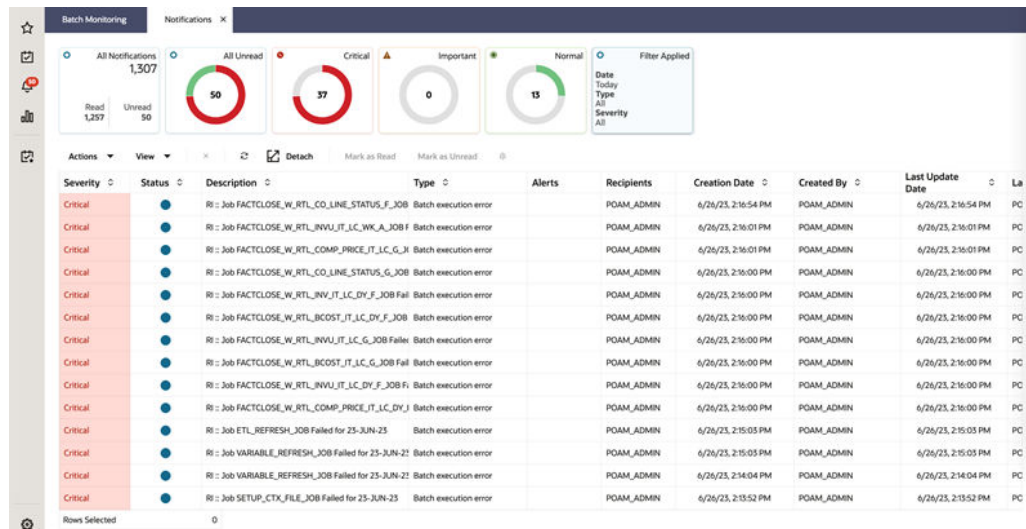
Figure 1-21 Results Panel - Summarized View



Notifications Tab

The Notifications tab opens when you click the 'See All' link at the bottom of the Notifications side panel.

Figure 1-22 Notifications Tab



This tab lists all the notifications for the logged-in user, regardless of whether they are in Read or Unread status. Information tiles display a break-up of the total notifications by severity. Clicking these tiles refreshes the table below to display only those notifications that are relevant to that tile.

You can perform the following operations from this tab.





- Delete  - The table allows for multiple selection and hence multiple notifications can be deleted at a time. Use the row header to select the row.
- Refresh  - This refreshes the list of notifications in the table.
- Mark as Read - Multiple Unread Notifications can be marked as Read by clicking this button.
- Mark as Unread - Multiple Read Notifications can be marked as Unread by clicking this button.
- Reassign Notifications  - Notifications can be reassigned to individual recipients or a group by clicking the Reassign Notifications icon. On selecting a row in the All Notifications table, and clicking the icon, the reassign notification popup is displayed. The Type is set to Reassigned by default, and the Severity and Description are pre-populated from the selected row; you can then change any of these values and assign the notification to one or more recipients.

Figure 1-23 Reassign Notification

The All Notifications table displays the following columns:

- Severity - A colored label indicating the Notification Severity.
- Status - If the status is unread, an icon  is shown. Otherwise, it is blank.
- Description - The description of the notification itself.
- Type- The description of the Notification Type for the notification.
- Alerts -
- Recipients - In case of individual notifications, this column contains the user ID of the user to whom the notification is assigned. When the notification is assigned to multiple users, it displays the text 'Multiple' and enables a context popup which lists all the recipients. This field is empty when the notification is assigned to a group associated with a type.
- Creation Date - Timestamp showing the date and time of creation.
- Created By - User ID of the user who created the notification.
- Last Updated Date - Timestamp showing the date and time when the last update was made.
- Last Updated By - User ID of the user who last updated the notification.
- Application ID - Unique identifier that identifies the application. Not visible by default.
- Department - The Department associated with the notification. Not visible by default.
- Class - The Class associated with the notification. Not visible by default.
- Subclass - The Subclass associated with the notification. Not visible by default.
- Location - The Location associated with the notification. Not visible by default.
- Supplier - The Supplier associated with the notification. Not visible by default.

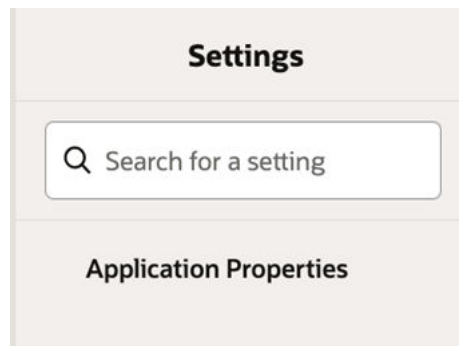
- Performance - The Performance value associated with the notification. Not visible by default.
- Brand - The Brand associated with the notification. Not visible by default.
- Rollup Count - The Rollup Count associated with the notification. Not visible by default.
- Additional Information - Refers to the Additional Information attribute associated with the notification. Not visible by default.

Reports

The functionality of Reports works similar to the Tasks menu.

Settings

The Settings icon on the Navigation Bar displays the application's Settings menu when clicked. This menu differs per application and for POM, it contains the Application Properties menu item.



Application Properties

Application properties are key-value pairs of parameters and configuration settings used by POM to operate efficiently and to control the application's behavior. For instance, a property may exist to turn off certain features within the application or to set limits on different event timings. This screen is restricted to administrators as application inner-working expertise is needed for understanding the impact of each property.

Application properties are grouped by Deploy Names, so one needs to be provided for the search to return results.

Each property is provided with a default value in case a property value is not set. Each is also provided with a Deployment Restart attribute, which indicates whether a server restart is needed for a new value to take effect.

The screenshot shows the 'Application Properties' window. At the top, there is a search section with fields for 'Deploy Name' (set to 'POM'), 'Key', 'Key Name', and 'Key Description'. Below the search is a table with columns: Deploy Name, Key Name, Key, Current Value, Default Value, Deployment Restart, and Key Description. The table lists various properties for 'POM' related to APPAREL and BCT-RPASCE schedules.

Deploy Name	Key Name	Key	Current Value	Default Value	Deployment Restart	Key Description
POM	MDF Syncing strategy for APPAREL schedule	APPAREL.mdf.sync.unmatched.module		IGNORE	No	This property will be used to determine how to sync
POM	MDF Version for APPAREL schedule	APPAREL.mdf.version		1.2	No	This property is passed as an HTTP header to th
POM	Skip Job Completion Flag for APPAREL schedu	APPAREL.skip.job.completion.check		false	No	This property will be used to determine whether to
POM	Throttling Sync Strategy for APPAREL schedule	APPAREL.sync.throttling.job.admin		MANDATORY	No	This property determines if JOS Throttling can b
POM	MDF Syncing strategy for BCT-RPASCE schedu	BCT-RPASCE.mdf.sync.unmatched.mod		IGNORE	No	This property will be used to determine how to syn
POM	MDF Version for BCT-RPASCE schedule	BCT-RPASCE.mdf.version		1.2	No	This property is passed as an HTTP header to th
POM	Skip Job Completion Flag for BCT-RPASCE sch	BCT-RPASCE.skip.job.completion.check		false	No	This property will be used to determine whether to
POM	Throttling Sync Strategy for BCT-RPASCE sche	BCT-RPASCE.sync.throttling.job.admin		MANDATORY	No	This property determines if JOS Throttling can b
POM	MDF Syncing strategy for DDFD schedule	DDFD.mdf.sync.unmatched.modules.re		IGNORE	No	This property will be used to determine how to syn
POM	MDF Version for DDFD schedule	DDFD.mdf.version		1.2	No	This property is passed as an HTTP header to th

The Application Properties page provides the following features:

- Search for application properties
- Filter application properties
- Sort application properties
- Update the value of an application property using the Edit Property dialog shown below:

The 'Edit Property' dialog box shows the following fields:

- Key:** APPAREL.mdf.sync.unmatched.modules.resolve
- Category Description:** Configurable Process Services Model properties
- Key Name:** MDF Syncing strategy for APPAREL schedule
- Default Value:** IGNORE
- Key Description:** This property will be used to determine how to sync unmatched modules in MDF. Valid values for this property are IGNORE and DISABLE. By default, it is set to IGNORE.
- Deployment Restart:** No
- Deploy Name:** POM
- Current Value:** (Empty text box)
- Category:** POM Process Services properties
- Last Updated By:** (Empty text box)
- Last Updated Date:** (Empty text box)

Buttons at the bottom: Reset to Default, Cancel, OK.

Table Menu Options

Note:

Figure 1-24, Figure 1-25 are representations and may be different for every window/table/popup.

The Actions menu, View menu, and icons are displayed in the form of a table. For more information on these options, see the sections [Action Menu and Icons](#) and [View Menu](#).

Action Menu and Icons

The Actions menu provides the option to take different actions related to entries in the table. Depending on the nature of the table, these actions can be add, view, delete or edit table rows, create by moving to a new screen or export the table contents to the spreadsheet. Alternatively these actions can also be performed by using the icon buttons on the table toolbar. For more information on the icon/buttons, see the [Screen Level Action - Icons and Buttons](#).

In some tables, it may also contain some table specific actions.

Figure 1-24 Action Menu and Icons

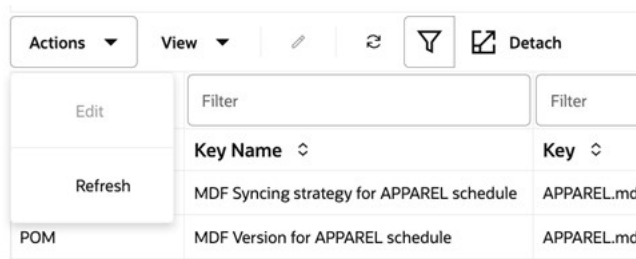








Table 1-1 Actions Menu/Icons and Descriptions

Actions Menu/Icon	Description
Refresh and Refresh icon 	Select Actions > Refresh or the Refresh icon  to update the records in the table.
Filter icon 	Select the Filter icon  to open fields that will filter the results. Use the filter fields to only show the rows matching or containing the entered information.
Detach and Detach Icon 	Select Actions > Detach or the Detach icon  to open the table in a separate window.

View Menu

The View menu provides the options for managing the table columns and sorting and filtering the table data.

In some tables you have the option to choose a saved custom view, which is an arrangement of columns different from the default view of the table.

Figure 1-25 View Menu

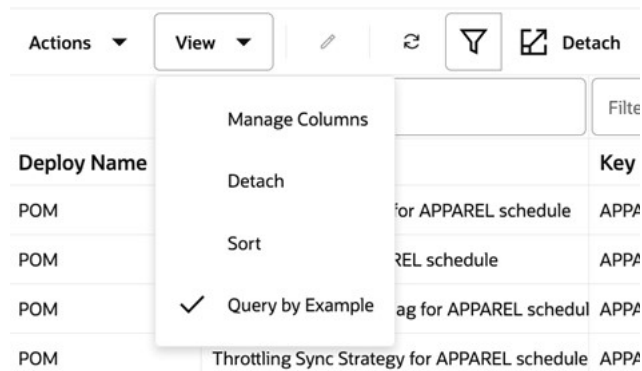






Table 1-2 View Menu/Icons and Descriptions

View Menu List	Description
Manage Columns	You can show or hide columns and change the order of the columns by selecting View > Manage Columns . This View menu option is only available for tables with a large number of columns. Note that the changes performed on the Manage Columns popup are persisted on the browser's cache and therefore are lost when the cache is cleared or when the browser is changed. Persistence of column preferences will be switched to the database in a future release, thereby preserving those preferences even when browser cache is cleared or when the browser is changed.
Detach and Detach icon 	You can view the tables in the application in a separate window by selecting View > Detach or by using the Detach icon  .
Query by Example	You can filter the items by one or multiple column values by selecting View > Query by Example .

Screen Level Action - Icons and Buttons

The screen level actions display the icons and buttons.

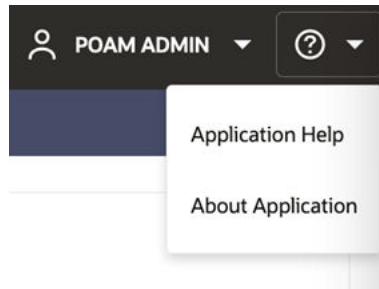
Table 1-3 Screen Level Action - Icons/Buttons and Description

Icons/Buttons	Description
Close window 	Click the  icon to close the window.

Application Help and About Application Links

Use the Help list menu on the top right of the window, to open tabs for Application Help or About Application.

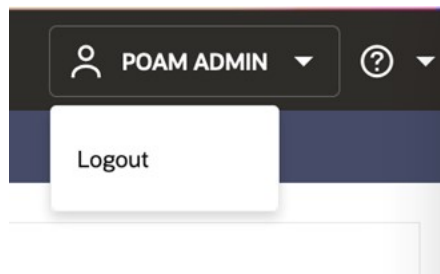
Figure 1-26 Application Help Menu



Logging Out of the Application

Use the **User** list menu on the top right of the window, to log out of the application.

Figure 1-27 Logging Out of the Application



2

Process Orchestration and Monitoring

The Process Orchestration and Monitoring (POM) application is a user interface for scheduling, tracking and managing batch jobs.

Process Orchestration and Monitoring has the following tabs:

- [Batch Monitoring](#)
- [System Configuration](#)
- [Batch Administration](#)
- [Scheduler Administration](#)
- [Schedule Maintenance](#)
- [AMS Utilities](#)

Batch Monitoring

Batch Monitoring

The Batch Monitoring tab provides a runtime view of the statuses and dependencies with regard to the different batch cycles for the selected business day.

Select **Batch Monitoring** in the [Navigation Area](#) to open the Batch Monitoring tab.

The application will by default open for a business date where at least one schedule is active. If none found, it will open for the most recent business date where at least one schedule is active.

Figure 2-1 Batch Monitoring

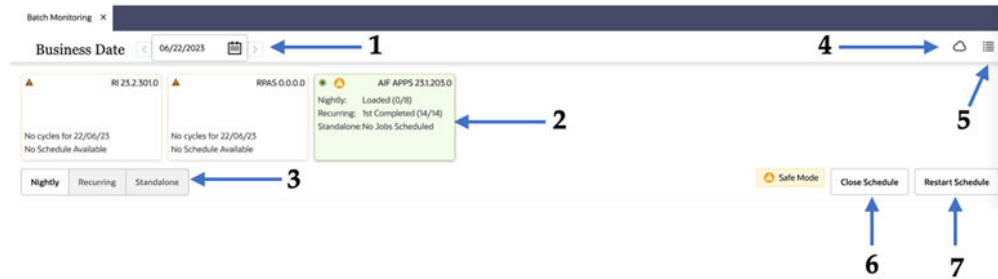
The screenshot shows the Oracle Retail Process Orchestration and Monitoring (POM) application interface. The top navigation bar includes the application name and a user profile for 'POAM ADMIN'. The main content area is titled 'Batch Monitoring' and shows a 'Business Date' of 06/22/2023. Below this, there are three schedule cards: 'RI 231.201.0', 'RPAS 0.0.0.0', and 'AIF APPS 231.203.0'. The 'AIF APPS 231.203.0' card is highlighted and shows 'Nightly: Loaded (0/0)', 'Recurring: 1st Completed (14/14)', and 'Standalone: No Jobs Scheduled'. Below the cards are tabs for 'Nightly', 'Recurring', and 'Standalone', along with buttons for 'Safe Mode', 'Close Schedule', and 'Restart Schedule'. The 'AIF APPS Nightly Schedule Details' section shows a circular progress indicator for 'Loaded (0)' and various dependency metrics. The 'AIF APPS Nightly Batch Jobs' section features a table with columns for Job, Process Name, Status, Start Time, End Time, Log, and Last Update. The table contains two rows of data, both with a status of 'Loaded'. The interface also includes a 'History' button and an 'Auto Refresh' dropdown menu.

Job	Process Name	Status	Start Time	End Time	Log	Last Update
AC_ATTR_MAINT_END_JOB	AC_ATTR_MAINT_PROCESS	Loaded				06/21/23 17:26:51 GMT+5:30
AC_ATTR_MAINT_START_JOB	AC_ATTR_MAINT_PROCESS	Loaded				06/21/23 17:26:51 GMT+5:30

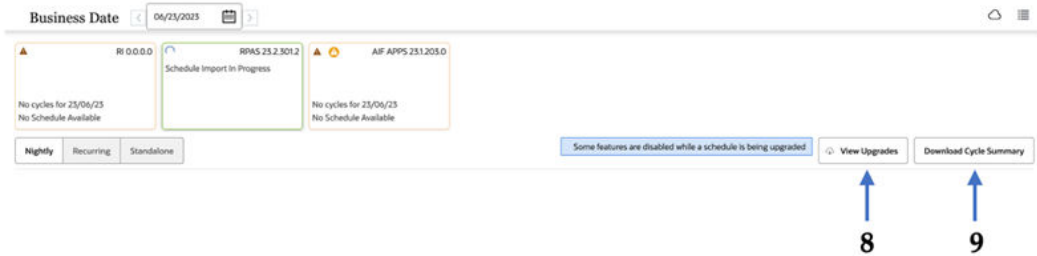
Header

The header displays information about the batches displayed in the Batch Monitoring tab. You can also use the header selection to choose which schedule batches to display.

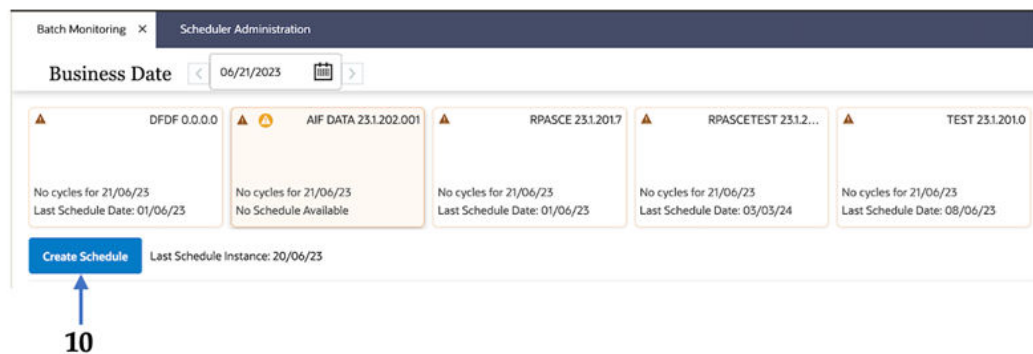
Figure 2-2 Batch Monitoring Header



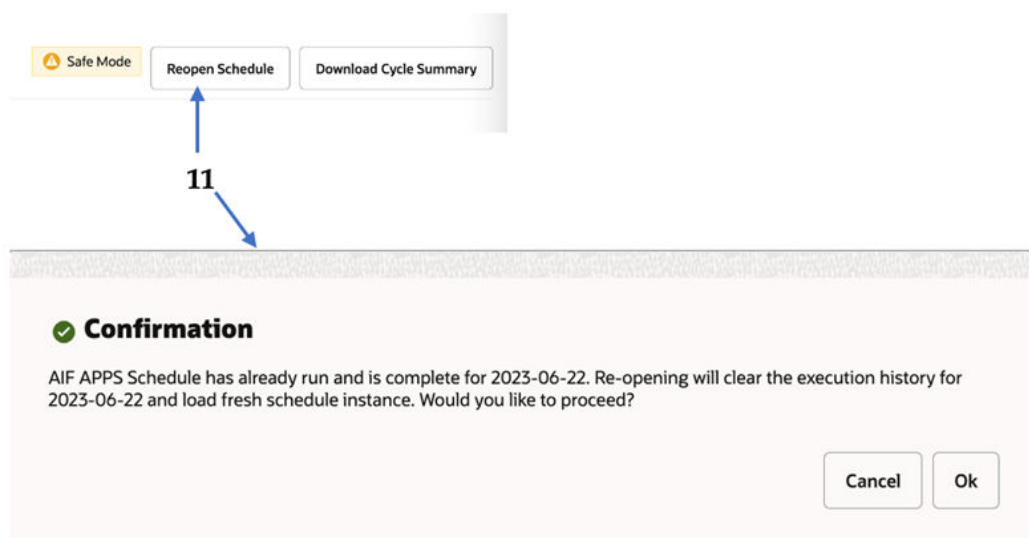
1. **Business Date** - Displays the business date for the oldest schedules displayed in Batch Monitoring.
Use this field to select the oldest schedule displayed in Batch Monitoring.
2. **Environments** - Displays information about each environment integrated with Process Orchestration and Monitoring.
Select one of these panels to display information about that environment's batch processes.
3. **Monitoring Cycle** - Displays the monitoring cycle of the batches displayed.
Select a monitoring cycle to see the batches scheduled for that cycle. The following monitoring cycles are available:
 - Nightly
 - Recurring
 - Standalone
4. **Environment Status Icon** - Click this icon to display a panel at the right side of the screen showing the status of the Scheduler, Execution Engine and the environments. The user can also manage the information displayed. See [Status](#) for more information.
5. **Activity Feed** - Click this icon to display a panel at the right side of the screen containing activities performed by the system and by the user.
6. **Close Schedule** - Use this button to close the schedule. This button only appears for Active schedules.
7. **Restart Schedule** - Use this button to restart the schedule. This button only appears for Active schedules.



8. **View Upgrades** - Use this button to navigate to the Schedule Maintenance screen to view more details on an upgrade when it is in progress or in error.
9. **Download Cycle Summary** - Use this button to download a summary for the currently selected business day for the selected schedule. Once clicked, the [Download Cycle Summary](#) dialog provides the user options to select the cycle and format. This button only appears for Completed schedules.



10. **Create Schedule** - Use this button to create a new Scheduler Day. This button only appears when a schedule tile is selected for which there is no open Scheduler Day. Click this button to create a new Scheduler Day for the selected schedule for the business date following the last schedule instance.



11. **Reopen Schedule** - Use this button to reopen a closed schedule for the latest scheduler day. This button only displays for an already completed schedule for the business day shown. Reopening the schedule will clear the execution history for that day. A confirmation message is displayed; for example: AIF APPS Schedule has already run and is complete for 2023-06-22. Re-opening will clear the execution history for 2023-06-22 and load fresh schedule instance. Would you like to proceed?

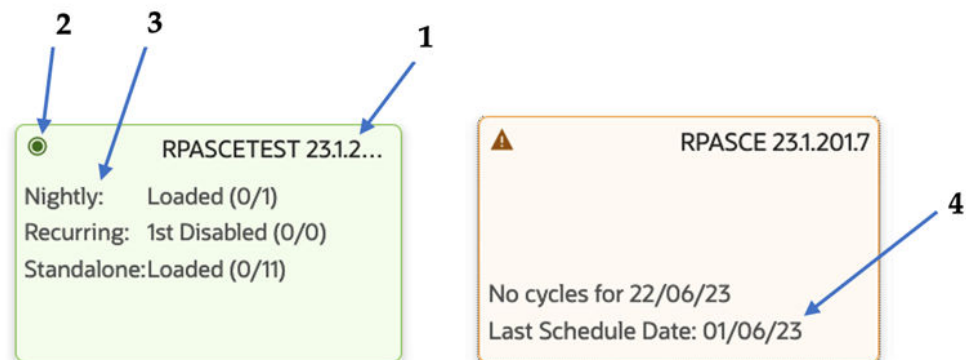
Schedule Tiles

Each schedule tile displays information for a batch schedule that POM is responsible for running.

Select a tile to display the list of batch processes for that schedule.

Each panel displays the following information:

Figure 2-3 Schedule Tile



1. **Schedule name and Version** - Displays the abbreviation of the application or application group and the software version. The display schedule name can alternatively be displayed here instead of the default schedule name. The display schedule name can be configured on the **Schedule** tab of the Batch Schedule spreadsheet.
2. **Run Status** - Displays the status of the batch processes:
 - Completed (green check mark icon)
 - Active (green target icon)
 - Error (red X icon)
 - No activity (amber triangle icon)
 - Suspended (pause icon)
 - Safe mode (Amber circle icon with a warning icon inside of it)
 - Patch Mode (Amber circle icon with a warning icon inside of it)
3. **Monitoring Cycles and Statuses** - Displays the number of completed and total jobs for a nightly / recurring cycle and the number of completed and total ad hoc flows / processes for a standalone cycle.


4. **Last Schedule Date** - Indicates the last date on which the batch processes were configured.


 **Note:**

- A green tile with a green target icon in the top left indicates that the schedule is in progress.
- A green tile with a green checkmark icon in the top left indicates that the schedule has completed.
- A red tile with a red cloud icon indicates that a new schedule version upgrade has failed. Navigate to the [Schedule Maintenance](#) screen by clicking on the **View Upgrades** button to address the failure.
- A blue spinner icon in the top left of the tile (2) indicates that the schedule is in the process of being upgraded to a new version. The user can navigate to the [Schedule Maintenance](#) screen by clicking on the View Upgrades button to check the progress of the upgrade.

When a schedule is being upgraded or when the schedule upgrade has failed, the user is prevented from most activities on the Batch Monitoring and on the Batch Administration screen.

Some features are disabled while a schedule is being upgraded

 Some features are disabled while a schedule is being imported

 Some features are disabled while a schedule is in a failed state

- An amber warning circle icon in the top left of the tile (2) indicates that the schedule is set to run in safe mode. This means that the batch schedule will simulate a complete run but without the jobs actually executing on the application server. Aside from the amber warning circle icon displayed in the top left of the tile, an amber 'Safe Mode' message is displayed in the area right below the tile area.

 **Safe Mode**

- An amber warning circle icon in the top left of the tile also indicates that patching is currently in progress and run executions will be paused until the patching completes. Aside from the amber warning circle icon displayed in the top left of the tile, an amber 'Patch Mode' message is displayed in the area right below the tile area.

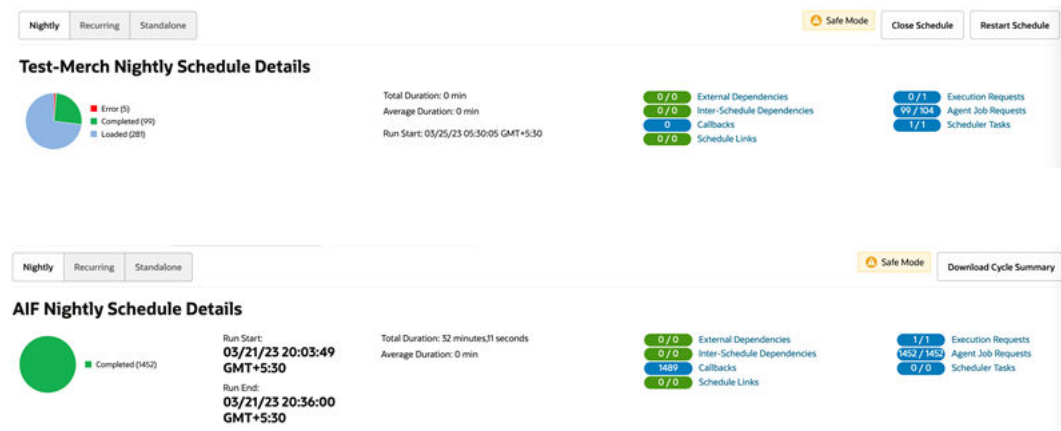
 **Patch Mode**

- An amber tile indicates that there is no instance of the schedule for the selected business date.

Batch Jobs Header

The batch jobs header displays the following information:

Figure 2-4 Batch Jobs Header



Run Status Chart

The run status chart shows a chart summary of the status of the different batches (including the number of batch jobs with that status) that are included in the selected cycle for the selected schedule. The possible statuses are:

- Loaded - Jobs are in loaded state when the scheduler day is first created.
- Pending - Job is waiting to run.
- Completed - Job ran successfully on the system.
- Error - A failure occurred due to an issue in the environment or the job's application.
- Held - An administrator placed the job on hold.
- Skipped - An administrator has skipped the running of the job so the remaining jobs in the cycle can proceed.
- Running - Job is currently running on the system.
- Long Running - The job's run time has exceeded a threshold. If a Threshold Run Time is specified for the job on the Edit Job popup of the Batch Administration screen, then a job is deemed long running if its current run time exceeds that value. Otherwise, if a Threshold Run Time is not specified, then the job is deemed long running when its current run time exceeds the Long Run Average Time Multiplier (specified on the Edit Settings popup of the System Configuration screen) times the average run time of that job. For example, if a job's average run time is 3 minutes, and the Long Run Average Time Multiplier is 3, then the job is considered long running if it has been running for at least 9 minutes. A notification is sent when a job is deemed long running.
- Disabled - Job was disabled by an administrator on the [Batch Administration](#) screen.
- System Held - Job was placed on hold by the system due to a lack of resources to run it.
- Skipped on Error - Job was preconfigured to be skipped on a failure.

- Waiting - Job is waiting for completion of pre-dependencies (Hourly Cycle, Nightly Cycle, External Dependency and Inter-Schedule Predecessor Jobs).

Completed Batch Job Statistics



Note:

Completed Batch Job Statistics are displayed only for Nightly and Recurring cycles.

For completed batch jobs, the batch job header shows the following information:

- Run Start
- Run End
- Total Duration
- Average Duration

Active Batch Job Statistics



Note:

Active Batch Job Statistics are not yet implemented. They will be implemented in a future version of POM.

For active batch jobs, the batch job header shows the following information:

- Estimated Completion Time
- Estimated Time Remaining
- Total Duration
- Average Duration
- Run Start

Batch Information

The batch information area displays the following information about the batch process results:

Execution Requests - Displays the number of completed executions and the total number of execution requests. Click to open the [Execution Requests Window](#).

Agent Job Requests - Displays the number of completed and total number of Agent job requests. Click to open the [Agent Job Requests Window](#) for the schedule and cycle selected.

Scheduler Tasks - Displays all tasks scheduled to run during the current scheduler day. Click to open the [Scheduler Tasks](#) window.

External Dependencies - Displays the number of successful and total number of external dependencies. Click to open the [Batch Cycle Details Screen](#).

Inter-Schedule Dependencies - Displays the number of successful and total number of inter-schedule dependencies. Click to open the [Batch Cycle Details Screen](#).

Callbacks - Displays the number of successful and total number of callbacks. Click to open the [Batch Cycle Details Screen](#).

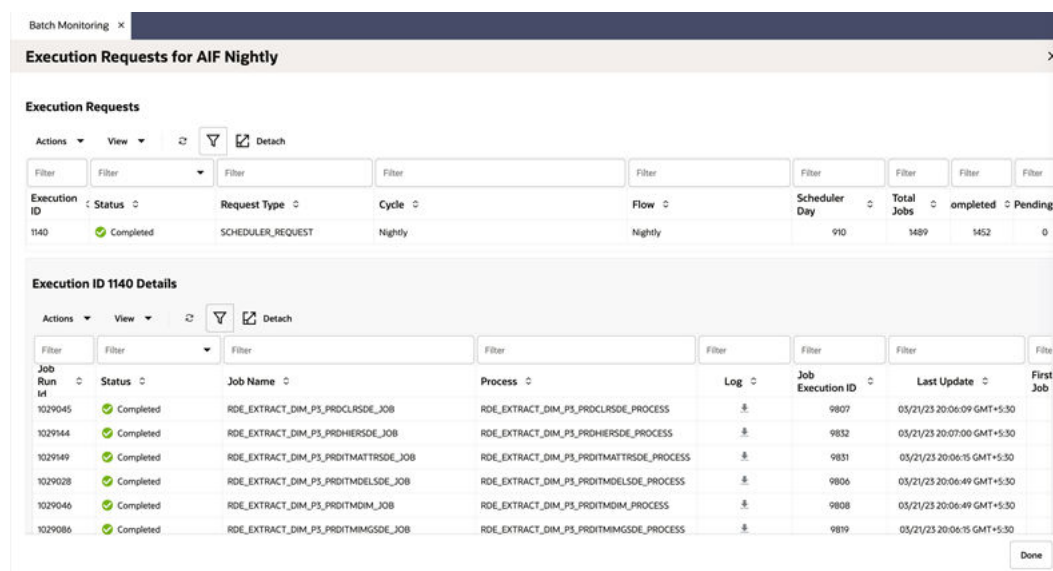
Schedule Links - Displays the number of successful and total number of schedule links. Click to open the [Batch Cycle Details Screen](#).

Execution Requests Window

The Execution Requests window displays information about execution requests for a batch.

Click **Done** or the close window icon  to close the window.







Figure 2-5 Execution Requests Window



Execution Requests

Execution ID	Status	Request Type	Cycle	Flow	Scheduler Day	Total Jobs	Completed	Pending
1140	Completed	SCHEDULER_REQUEST	Nightly	Nightly	910	1489	1452	0

Execution ID 1140 Details

Job Run Id	Status	Job Name	Process	Log	Job Execution ID	Last Update	First Job
1029045	Completed	RDE_EXTRACT_DIM_P3_PRODCLRSDE_JOB	RDE_EXTRACT_DIM_P3_PRODCLRSDE_PROCESS		9807	05/21/23 20:06:09 GMT+5:30	
1029144	Completed	RDE_EXTRACT_DIM_P3_PRODHIERSDE_JOB	RDE_EXTRACT_DIM_P3_PRODHIERSDE_PROCESS		9832	05/21/23 20:07:00 GMT+5:30	
1029149	Completed	RDE_EXTRACT_DIM_P3_PRODIMATRSDE_JOB	RDE_EXTRACT_DIM_P3_PRODIMATRSDE_PROCESS		9831	05/21/23 20:06:15 GMT+5:30	
1029028	Completed	RDE_EXTRACT_DIM_P3_PRODIMDELSDE_JOB	RDE_EXTRACT_DIM_P3_PRODIMDELSDE_PROCESS		9806	05/21/23 20:06:49 GMT+5:30	
1029046	Completed	RDE_EXTRACT_DIM_P3_PRODIMDIM_JOB	RDE_EXTRACT_DIM_P3_PRODIMDIM_PROCESS		9808	05/21/23 20:06:49 GMT+5:30	
1029086	Completed	RDE_EXTRACT_DIM_P3_PRODIMMGSDDE_JOB	RDE_EXTRACT_DIM_P3_PRODIMMGSDDE_PROCESS		9819	05/21/23 20:06:15 GMT+5:30	

Done

Execution Requests

This section displays the following information about each execution request in the batch process:

- Execution ID
- Status
- Request Type
- Cycle
- Flow
- Scheduler Day
- Total Jobs

- Completed
- Pending
- Skipped
- Failed
- System Held
- Submitting
- Submitted

See [Table Menu Options](#) in the [Common User Interface Controls](#) for information about the options available for this section.

Execution Details

This section displays the following information about each job run by the execution request:

- Job Run ID
- Status
- Job Name
- Process Name
- Log – Download log in text file format.
- Job Execution ID
- Last Update
- First Job
- Error Info

See [Table Menu Options](#) in the [Common User Interface Controls](#) for information about the options available in this section.

Agent Job Requests Window

The Agent Job Requests window displays information about batch requests submitted to the POM Agent. The agent is the component of POM usually deployed on the application server where the batch jobs actually execute.

Click **Done** or the close window icon (✕) to close the window.

Figure 2-6 Agent Job Requests Window

Status	Request Id	Type	Job	Process	Payload	Info	Agent Id	Application Name	Create Date
Completed	10382	EXEC	SI_W_RTL_INVADJ_IT_IC_DY_FS_JOB	STAGING_SI_W_RTL_INVADJ...	Payload		risbatchclient-...	RI	05/21/25 20:13:43 GM
Completed	10388	RI	STG_SI_EMPLOYEE_JOB	STG_SI_EMPLOYEE_PROCESS	Payload		risbatchclient-...	RI	05/21/25 20:14:38 GM
Completed	10390	EXEC	STAGING_SI_W_RTL_ICM_IT_IC_DY_FS_JOB	STAGING_SI_W_RTL_ICM_IT_L...	Payload		risbatchclient-...	RI	05/21/25 20:14:38 GM
Completed	10392	RI	W_RTL_DIFF_GRP_DS_TL_STG_JOB	STG_W_RTL_DIFF_GRP_DS_T...	Payload		risbatchclient-...	RI	05/21/25 20:14:53 GM
Completed	10393	RI	W_RTL_BCMST_IT_IC_DY_FS_STG_JOB	STG_W_RTL_BCMST_IT_IC_D...	Payload		risbatchclient-...	RI	05/21/25 20:14:53 GM
Completed	10396	RI	W_LOCALIZED_STRING_GS_STG_JOB	STG_W_LOCALIZED_STRING...	Payload		risbatchclient-...	RI	05/21/25 20:14:53 GM
Completed	10399	EXEC	SI_W_MCAL_PERIOD_DS_JOB	STAGING_SI_W_MCAL_PERIO...	Payload		risbatchclient-...	RI	05/21/25 20:15:03 GM
Completed	10400	EXEC	SI_W_EXCH_RATE_GS_JOB	STAGING_SI_W_EXCH_RATE...	Payload		risbatchclient-...	RI	05/21/25 20:15:03 GM
Completed	10403	RI	W_RTL_SUPPLIER_TRAIT_DS_STG_JOB	STG_W_RTL_SUPPLIER_TRAI...	Payload		risbatchclient-...	RI	05/21/25 20:15:08 GM
Completed	10405	RI	STG_SI_PRODUCT_JOB	STG_SI_PRODUCT_PROCESS	Payload		risbatchclient-...	RI	05/21/25 20:15:08 GM
Completed	10407	RI	W_RTL_INVRECLASS_IT_IC_DY_FS_STG_J...	STG_W_RTL_INVRECLASS_IT...	Payload		risbatchclient-...	RI	05/21/25 20:15:08 GM

Agent Job Requests

This section displays the following information about each Agent job request in the batch process:

- Status - Possible values are Complete, Running, Error, and Loaded
- Request ID - Agent request ID
- Type - Possible values are EXEC (shell script based job) or RI/RASE/RDS/RPAS/BDI/OB/OMS which are all values for service based jobs
- Job - job name
- Process - Process name
- Payload - Service payload in case the type corresponds to a service based job
- Info - Error Information in case the request is in Error status
- Agent Id - The identifier of the Agent which Initiates the job execution request
- Application Name
- Create Date
- Start Time
- End Time
- Last Update Time
- Execution Request Id
- Job Run Id

See [Table Menu Options](#) in the [Common User Interface Controls](#) for information about the options available in this section.

Scheduler Tasks

The Scheduler Tasks window displays information about tasks that are scheduled to run during the current scheduler day. See the Scheduler Administration section of this chapter.

When the new scheduler day is created every day (at the end of the Nightly batch run), it creates the scheduler tasks according to the way they are set up in the Scheduler Administration screen.

Figure 2-7 Nightly Scheduler Task Window

The screenshot shows the 'AIF Nightly Scheduler Task' window. It features a toolbar with 'Actions', 'View', 'Detach', 'Run', 'Stop', and 'Run Now' options. Below the toolbar is a table of task details:

Task Id	Enabled	Status	Flow Name	Schedule Date	Schedule Time	Next Run In	Time Zone
93807	<input type="checkbox"/>	Yes Enabled	Nightly	01/03/23	19:30		(UTC+05:30) Calcutta - India Standard Time

Below this is the 'Task ID 93807 Executions' section, which includes another toolbar and a table of execution records:

Execution ID	Status	Start Time	Info
1140	Completed	21/05/23 20:03 IST	

The bottom right corner of the window displays the time '06/27/23, 06:30:48 UTC' and a 'Done' button.

Figure 2-8 Recurring Scheduler Tasks Window

The screenshot shows the 'AIF APPS Hourly_Cycle_1 Scheduler Tasks' window. It features a toolbar with 'Actions', 'View', 'Detach', 'Run', 'Stop', and 'Run Now' options. Below the toolbar is a table of task details:

Task Id	Enabled	Status	Flow Name	Schedule Date	Schedule Time	Next Run In	Time Zone
172151	<input type="checkbox"/>	Yes Completed	ASO_INTRADAY_CYCLE	21/06/23	17:27		(UTC+05:30) Calcutta - India Standard Time

Below this is the 'Task ID 172151 Executions' section, which includes another toolbar and a table of execution records:

Execution ID	Status	Start Time	Info
505	Completed	21/06/23 17:27 IST	

The bottom right corner of the window displays the time '06/27/23, 06:31:47 UTC' and a 'Done' button.

Click **Done** or the close window icon (X) to close the window.

The Scheduler Tasks window for the Nightly and Recurring cycles display the same task attributes listed below. The difference is that there is only one Nightly task for a scheduler day whereas there could be multiple Recurring flows running throughout the day.

Nightly/Recurring Scheduler Tasks

This section displays the following information about each Nightly/Recurring Scheduler task:

- Task ID
- Enabled - Switch to enable or disable the execution of the task
- Status - Possible values are: Enabled, Disabled, Completed, Skipped On Delay, Scheduled, Error, or Cancelled
- Flow Name - Nightly or recurring flow name
- Schedule Date
- Schedule Time
- Time Zone



Note:

When the New Scheduler Day is created, if the start time for a certain task has elapsed, the task will be scheduled for the next day. The Next Schedule Run column will show the next time the task will execute.

See [Table Menu Options](#) in [Common User Interface Controls](#) for information about the options available for this section.

Task Executions

This section displays the following information about each task executions:

- Status - Possible values are: Completed, Error
- Start Time
- Info - If the Status is Error, this field changes to a link which, when clicked, will open a dialog showing error details.

See [Table Menu Options](#) in [Common User Interface Controls](#) for information about the options available in this section.

The user can edit the Nightly or Recurring tasks to change the time they run for the day. Permanent changes need to be entered in the Scheduler Administration screen.



Note:

If the user makes a change to the time, he or she needs to click the **Run** action to schedule the task.

It is alternatively possible for the user to circumvent the steps mentioned above and click on Run Now if they intend to schedule the task for immediate execution.

When **Run** or **Run Now** is clicked, confirmation windows are displayed based on the time zone and current business date.

Figure 2-9 The scheduled time in the given time zone is past the current date

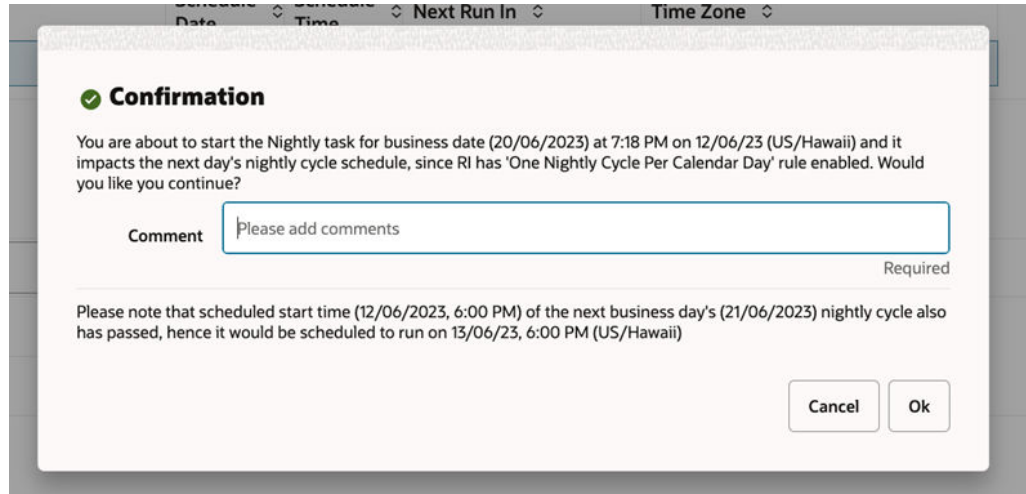
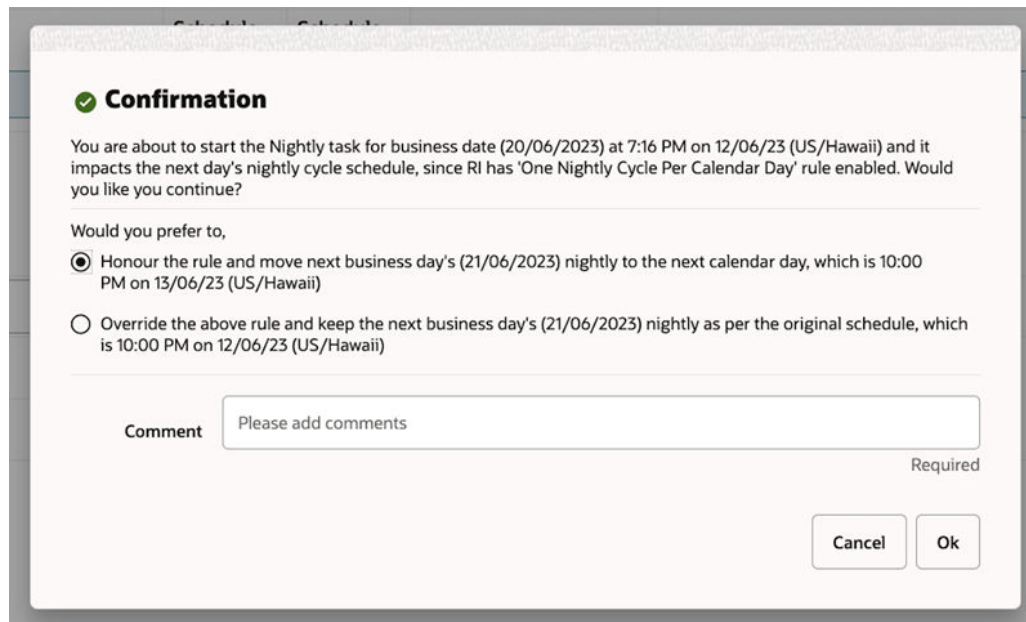
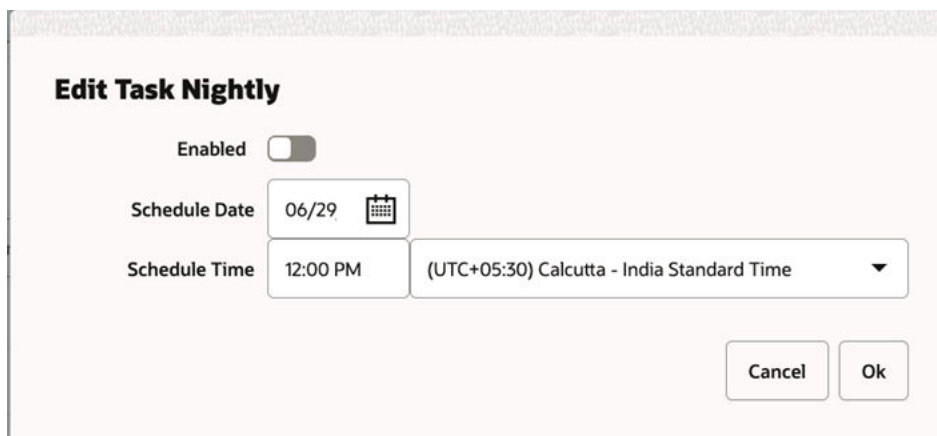


Figure 2-10 The scheduled time in the given time zone has not passed the current date



Also, for the task to be editable, it must be in a state other than Scheduled. If it is in a Scheduled state, the user can click the stop action, which puts the task in a Cancelled state, and it will then be editable.



Standalone Scheduler Tasks

Figure 2-11 Standalone Scheduler Tasks Window

Task ID	Enabled	Status	Name	Type	Description	Frequency	Limit occurrences	Prevent start during nightly	Schedule Date	Schedule Time	Next Run In
98862	<input checked="" type="checkbox"/>	Yes Completed	CONV_HALF_DATA_PROCESS_ADHOC	Process		Single			25/05/23	09:00	
98865	<input checked="" type="checkbox"/>	Yes Completed	CONV_HALF_DATA_BUDGET_PROCESS_A...	Process		Single			25/05/23	09:00	
98864	<input checked="" type="checkbox"/>	Yes Completed	CONV_ITEM_EXP_PROCESS_ADHOC	Process		Single			25/05/23	07:00	
98865	<input checked="" type="checkbox"/>	Yes Cancelled	CONV_ARC_PURGE_STATS_PROCESS_AD...	Process		Every 5 minutes		<input checked="" type="checkbox"/>	05/06/23	19:46	
95342	<input checked="" type="checkbox"/>	Yes Cancelled	CONV_PO_RECEIVE_PROCESS_ADHOC	Process		Every 30 minutes	2		05/06/23	19:44	
95344	<input checked="" type="checkbox"/>	Yes Completed	CONV_SL_INT_PROCESS_ADHOC	Process		Single			25/05/23	05:00	
95345	<input type="checkbox"/>	No Disabled	CONV_PO_SHIP_PROCESS_ADHOC	Process		Single					
95341	<input type="checkbox"/>	No Disabled	CONV_PO_CREATE_PROCESS_ADHOC	Process		Single					
95340	<input type="checkbox"/>	No Disabled	CONV_PO_CLOSE_PROCESS_ADHOC	Process		Single					
95339	<input type="checkbox"/>	No Disabled	CONV_PARTNER_PROCESS_ADHOC	Process		Single					

Execution ID	Status	Start Time	Info
1776	Completed	25/05/23 14:30 IST	

Click **Done** or the close window icon (X) to close the window.

Standalone Scheduler Tasks

This section displays the following information about each Standalone Scheduler task:

Task ID

Enabled – Switch to enable or disable the execution of the task.

Status – Possible values are: Enabled, Disabled, Completed, Skipped On Delay, Scheduled, Error, Cancelled.

Name – Indicates Process / Flow name

Type – Indicates whether it is Process or Flow

Description – Provides a description of the task

Frequency – Single or Every x minutes.

Limit Occurrences –If this field has a value, the process will run every x minutes for y occurrences.

Prevent Start During Nightly – Indicates that the process should not start running when Nightly is in progress. If the process starts running before Nightly start, it will continue running even if the run extends into the Nightly run.

Schedule Date

Schedule Time

Next Run In – Displays the time remaining until the next run.

Time Zone

Click **Done** or the close window icon (✕) to close the window.

See [Table Menu Options](#) in [Common User Interface Controls](#) for information about the options available in this section.

The user can edit a Standalone task to change any of the fields in the window below. Edits are effective just for the day's run. Permanent changes must be entered in the Scheduler Administration screen.

Edit Task CONV_PO_SHIP_PROCESS_ADHOC

Enabled

Description Run CONV_PO_SHIP_PROCESS_ADHOC once

Frequency Single

Schedule Date /2023

Schedule Time 12:00 AM (UTC+05:30) Kolkata

Prevent start during nightly

Cancel Ok

Edit Task CONV_PO_SHIP_PROCESS_ADHOC

Enabled

Description

Frequency

Limit occurrences

Schedule Date

Schedule Time

Prevent start during nightly

Note:

If the time is left blank for a standalone task, it will execute immediately upon clicking **Ok**.

When the New Scheduler Day is created, if the start time for a certain task has elapsed, the task will be scheduled for the next day. The Next Schedule Run column will show the next time the task will execute.

Task Executions

This section displays the following information about each task execution:

- Execution ID
- Status - Possible values are: Completed, Error
- Start Time
- Info - If the Status is Error, this field changes to a link which, when clicked, will open a dialog showing the error details.

See [Table Menu Options](#) in [Common User Interface Controls](#) for information about the options available in this section.

Batch Cycle Details Screen

Batch Cycle Details

RPASCETEST Nightly

Run Status Chart: [Blue Circle] | Run Status: [Loaded (1)]

Total Duration: 0 min
Average Duration: 0 min
Run Start: [Progress Bar]

External Dependencies

Status	Source Job	Target Job	Action
Pending	AP_BATCH_AGG_D_JOB	EXTERNAL_TESTING	Disable

Inter-Schedule Dependencies

Status	Source Job	Target Job	Target Process	Target Schedule	Action
Pending	AP_BATCH_AGG_D_JOB	AGG_UTILTY_JOB	AGGREGATION_UTILTY_ADHOC	RI	Disable
Disabled	AP_POST_DATA_IMP_START_JOB	AC_CLUSTER_SET_EXPORT_END_JOB	AC_CLUSTER_SET_EXPORT_PROCESS	RSP	Enable
Disabled	AP_POST_DATA_IMP_START_JOB	DT_EXPORT_END_JOB	DT_EXPORT_PROCESS	RSP	Enable
Disabled	AP_POST_DATA_IMP_START_JOB	RSE_AP_FCST_EXPORT_JOB	RSE_FCST_EXPORT_PROCESS	RSP	Enable
Disabled	AP_POST_DATA_IMP_START_JOB	SPO_EXPORT_END_JOB	SPO_EXPORT_PROCESS	RSP	Enable
Disabled	MPP_POST_DATA_IMP_START_JOB	RSE_MPP_FCST_EXPORT_JOB	RSE_FCST_EXPORT_PROCESS	RSP	Enable

Refresh Done

The Batch Cycle Details screen displays the following sections:

Header

The header displays the following information about the batch cycle:

- [Run Status Chart](#)

Completed Batch Job Statistics

Completed Batch Job Statistics

For completed batch jobs, the batch job header shows the following information:

- Run Start
- Run End
- Total Duration
- Average Duration

Active Batch Job Statistics

For active batch jobs, the batch job header shows the following information:

Note:

Active Batch Job Statistics are not yet implemented. They will be implemented in a future version of POM.

- Estimated Completion Time
- Estimated Time Remaining
- Total Duration
- Average Duration
- Run Start

External Dependencies

External Dependencies				
Status	Source Job	Target Job		
 Pending	AP_BATCH_AGG_D_JOB	EXTERNAL_TESTING		<input type="button" value="Disable"/>

The External Dependencies section lists all the external batch job dependencies for the entire current Schedule. These dependencies are only shown if the system level external dependencies indicator is turned on. An external dependency is usually a dependency on a customer's internal process. This dependency is released once the customer calls an endpoint into POM for a specific POM job.

The following information is displayed for each external dependency:

- **Status**
- **Source Job** - Click to open the job in the [Batch Job Details](#) screen. The source job is a job in the current schedule which is dependent on the external (target) job.
- **Target Job** - The job that, when complete, will release the dependency which the source job is waiting on.

Inter-Schedule Dependencies

Inter-Schedule Dependencies					
Status	Source Job	Target Job	Target Process	Target Schedule	
 Pending	AP_BATCH_AGG_D_JOB	AGG_UTILTY_JOB	AGGREGATION_UTILTY_ADHOC	IR	<input type="button" value="Disable"/>
 Disabled	AP_POST_DATA_IMP_START_JOB	AC_CLUSTER_SET_EXPORT_END_JOB	AC_CLUSTER_SET_EXPORT_PROCESS	RSP	<input type="button" value="Enable"/>
 Disabled	AP_POST_DATA_IMP_START_JOB	DT_EXPORT_END_JOB	DT_EXPORT_PROCESS	RSP	<input type="button" value="Enable"/>

The Inter-Schedule Dependencies section lists all the inter-schedule batch job dependencies for the entire current Schedule. These dependencies are only show if the system level inter-schedule dependencies indicator is turned on. An inter-schedule dependency links the current schedule and a target schedule where a job in the target schedule is dependent on the completion of a job in the current schedule.

The following information is displayed for each inter-schedule dependency:

- **Status**
- **Source Job** - Click to open the job in the [Batch Job Details](#) screen.
- **Target Job** - Click to open the job in the [Batch Job Details](#) screen. Target job is dependent on the source job.

- Target Process - Process containing the target job.
- Target Schedule - Schedule containing the target process/job.
- A **Disable/Enable** button to disable or enable the dependency.

Schedule Links

Schedule Links

Status	Source Job	Target Job	Target Process	Target Schedule	Info
Pending	GENERIC_BATCH_MILE_MARKER_JOB	ALCDTAILSSDE_JOB	ALCDTAILSSDE_PROCESS	RDE	Info <input type="button" value="Disable"/>

A Schedule Link links the current schedule and a target schedule where the current schedule does not start until the completion of a job in the target schedule.

The following information is displayed for each schedule link:

- Status
- Source Job - Click to open the job in the [Batch Job Details](#) screen. The job in the current schedule which starts the current batch when the Target Job completes.
- Target Job - Click to open the job in the [Batch Job Details](#) screen. The job in the Target Schedule which when completes fulfills the dependency for the Source Job in the current schedule.
- Target Process - The process which the Target job belongs to. - The schedule whose job is a dependency for the job in the current schedule.
- Info - Shows information regarding error if failed or skipped.
- Target Schedule
- If it was not successful, a **Retry** button to retry the schedule link.

Callbacks

Callbacks

Status	Job	Process	Date	Payload	Info
Failed	W_INT_ORG_DH_RTL_TMP_JOB	LOAD_DIM_INITIAL_ADHOC		Payload	Info <input type="button" value="Retry"/>
Failed	W_RTL_ORG_RECLASS_TMP_JOB	LOAD_DIM_INITIAL_ADHOC		Payload	Info <input type="button" value="Retry"/>

The Callbacks section lists all the external status update request and response callbacks based on the External Status Update mode set in the External [System Configuration](#) screen.

The following information is displayed for each callback:

- Status
- Job - Click to open the job in the [Batch Job Details](#) screen.
- Process - Process containing the job.
- Date of callback

- A **Payload** link to display the [Callback - Payload Window](#) for the callback.
- An **Info** link to display the [Callback - Info Window](#) describing the callback response.
- If the callback was not successful, a **Retry** button to retry the callback.

Nightly and Recurring Batch Jobs

AIF APPS Nightly Batch Jobs

Actions View Show Disabled Hold Release Skip Release Skip Run Rerun Kill

Job	Process Name	Status	Start Time	End Time	Log	Last Update	Avg Historical Run Time	Parameter	Duration	Job Type	Process Status
AC_ATTR_MAINT_END_JOB	AC_ATTR_MAINT_PROCESS	Completed				06/27/23 11:10:45 GMT+5:30	5	AC_ATTR,...		EXEC	Completed
AC_ATTR_MAINT_START_JOB	AC_ATTR_MAINT_PROCESS	Completed				06/27/23 11:10:45 GMT+5:30	5	AC_ATTR,...		EXEC	Completed
AC_CONSEG_ATTR_MAINT_JOB	AC_ATTR_MAINT_PROCESS	Completed				06/27/23 11:10:45 GMT+5:30	5			EXEC	Completed
AC_STORE_ATTR_MAINT_JOB	AC_ATTR_MAINT_PROCESS	Completed				06/27/23 11:10:45 GMT+5:30	5			EXEC	Completed
AC_FORECAST_ATTR_MAINT_JOB	AC_ATTR_MAINT_PROCESS	Completed				06/27/23 11:10:45 GMT+5:30	6			EXEC	Completed
AC_PERF_ATTR_MAINT_JOB	AC_ATTR_MAINT_PROCESS	Completed				06/27/23 11:10:45 GMT+5:30	5			EXEC	Completed
AC_PROD_ATTR_MAINT_JOB	AC_ATTR_MAINT_PROCESS	Completed				06/27/23 11:10:45 GMT+5:30	5			EXEC	Completed
AC_CUSTSEGA_ATTR_MAINT_JOB	AC_ATTR_MAINT_PROCESS	Completed				06/27/23 11:10:45 GMT+5:30	5			EXEC	Completed

The Batch Jobs section lists all the batch jobs for the selected schedule and the selected cycle – Nightly or Recurring. The table displays the following information:

- **Status**
 - Loaded - Jobs are in loaded state when the scheduler day is first created.
 - Pending - Job is waiting to run.
 - Completed - Job ran successfully on the system.
 - Error - A failure occurred due to an issue in the environment or the job's application.
 - Held - An administrator placed the job on hold.
 - Skipped - An administrator has skipped the running of the job so the remaining jobs in the cycle can proceed.
 - Running - Job is currently running on the system.
 - Long Running - The job's run time has exceeded a threshold. If a Threshold Run Time is specified for the job on the Edit Job popup of the Batch Administration screen, then a job is deemed long running if its current run time exceeds that value. Otherwise, if a Threshold Run Time is not specified, then the job is deemed long running when its current run time exceeds the Long Run Average Time Multiplier (specified on the Edit Settings popup of the System Configuration screen) times the average run time of that job. For example, if a job's average run time is 3 minutes, and the Long Run Average Time Multiplier is 3, then the job is considered long running if it has been running for at least 9 minutes. A notification is sent when a job is deemed long running.
 - Disabled - Job was disabled by an administrator on the [Batch Administration](#) screen.
 - System Held - Job was placed on hold by the system due to a lack of resources to run it.
 - Skipped on Error - Job was preconfigured to be skipped on a failure.
 - Waiting - Job is waiting for completion of pre-dependencies (Hourly Cycle, Nightly Cycle, External Dependency and Inter-Schedule Predecessor Jobs).

- Job - Click to open the job in the [Batch Job Details](#) screen.
- Application
- Last Update
- Parameter
- Job Type - Depending on the value, determines if a job is service based or shell script based.
- Process Name
- Process Status
- Log - When the job is in error, this field will display a down-arrow icon which when clicked will display the content of the log.
- Job Description
- Start Time
- End Time
- Duration
- Average Run Time
- Average Historical Run Time
- Number of Runs
- Error Source
- Waiting
- Waiting Reasons

Action Menu and Icons

See [Action Menu and Icons](#) for common actions that can be performed through the Action menu and the icons. You can also perform the following actions:

Table 2-1 Batch Jobs - Actions Menu/Icons and Description

Actions Menu/Icons	Description
Show Disabled	Use the Actions > Show Disabled or Show Disabled . By Default, the table won't show any jobs with Disabled Status. Use Show Disabled button or action to see the list of Disabled job.
Hold	Use the Actions > Hold or the Hold button to put the process on hold.
Skip	Use the Actions > Skip or the Skip button to skip the process.
Run	Use the Actions > Run or the Run button to run the process immediately.
Rerun	Use the Actions > Rerun or the Rerun button to run the job again.

Table 2-1 (Cont.) Batch Jobs - Actions Menu/Icons and Description

Actions Menu/Icons	Description
Kill	<p>Use the Action>kill or the Kill button to stop the execution of the job.</p> <p>The job needs to be running for this action to be enabled. When the Kill command is enacted on the screen one of two confirmation messages opens depending on whether a cleanup script is associated with the job being killed.</p> <p>If a cleanup script is associated with the job, the confirmation message presented is “a cleanup will be performed after this job is terminated. It is advisable to wait a few minutes after termination before proceeding with the remaining batch schedule” This is because it may take a minute or so for the cleanup to complete.</p> <p>If a cleanup script is not associated with the job, the user is cautioned to make sure he or she is sure about proceeding without a cleanup script.</p> <p>That maybe be acceptable, as not all jobs require cleanup when terminated. The confirmation message in this case is “there is no post termination cleanup script associated with this job. the job will be terminated but not post cleanup will be performed. This may or may not be ok for this job. Check with Oracle Support if this is a concern.</p>
Edit Parameters	<p>Use the Actions > Edit Parameters or the Edit Parameters button to edit the parameters for the job. The new parameters are only effective for the current day's batch run.</p>

View Menu

See [View Menu](#) for information about the options in the View menu.

Status Details for Job

Certain status values on the Batch Jobs section such as 'Error' or 'Long Running' act as a link. When clicked a popup is displayed containing more details about why the job is in the given status and helpful suggestions for resolving the issue. An example is shown below for a job in error.

Details on Error Job ALLOCBT_JOB

Reason This Job has failed during execution at the Agent.
Possible Resolution Please reach out to the Oracle support team, for further investigation.

Error Info Moving the Job 3865 to ERROR status since Agent pomgent-deployment-b744f88f8-7lhx9_085011 is found to be inactive / shutdown

Job Execution ID	3865	Execution Request ID	1174
Start Time	03/25/23 10:49:30 GMT+5:30	Execution Request Status	ERROR
End Time	03/25/23 12:14:57 GMT+5:30		
Last Updated	03/25/23 12:14:57 GMT+5:30		

Rerun Multiple Jobs

Multiple failed jobs can be selected on the Batch Monitoring table and restarted by clicking the **Rerun** button from the table toolbar.

Rerun Failed Job(s) for MERCH Nightly

Warning
 The following list may include jobs with Error Source of Job Agent. This indicates that those jobs may have actually started running before failing. Restarting those jobs may result in data corruption, so caution must be exercised before clicking the Rerun button. Jobs with Error Source of POM likely failed due to a technical issue before starting to run and are therefore safe to restart.

Filter with Process/Job name or Error Source
 purge

<input type="checkbox"/>	Process Name	Job	Status	Error Source	Error Info	Execution ID	Job Run Id
<input type="checkbox"/>	REIM_PURGE_PROCESS	REIM_PURGE_JOB	Error	POM	Job Agent call failed: POM Agent URL is not defined / configured	468	229
<input type="checkbox"/>	ALC_PURGE_ALLOC_PROCESS	ALC_PURGE_ALLOC_JOB	Error	POM	Job Agent call failed: POM Agent URL is not defined / configured	468	228
<input type="checkbox"/>	ALC_PURGE_WRK_PROCESS	ALC_PURGE_WRK_JOB	Error	POM	Job Agent call failed: POM Agent URL is not defined / configured	468	228


Rerun action will restart all the selected job(s). Would you like to continue?

Standalone Batch Jobs

The standalone cycle includes the following information for each flow, process and job:

Figure 2-12 Standalone Batch Sections

Left Pane of the Screen

- **Search by Name or Status** - Search for an invocable by entering a search term and clicking **Enter**. An invocable can be a flow or a process that does not belong to a flow.
- **Show Disabled** - When this switch is enabled, disabled processes and flows are also listed on the left panel.
- **Flows/Processes** - The following information is shown for each flow/process:
 - **Flow/Process Name**
 - **Status**
 - * **Loaded** - A flow or process is in a Loaded state when the scheduler day is first created.
 - * **Completed** - A flow or process that ran successfully on the system.
 - * **Error** - A failure of a flow or process occurred due to an issue in the environment or the job's application.
 - * **Cancelled** - A flow or process in a Loaded status is marked as Cancelled when the scheduler day is closed.
 - **Flow/Process Label**
 -  **Run Icon** - Click on the play button to run the adhoc flow/process. It is available only when the status of the flow/process is in a Loaded or Completed status.

Right Pane of the Screen

Click a row in the left panel of the Standalone Entities table to refresh the Batch Jobs table, list the jobs for the selected standalone flow/process, and display information similar to what is listed in the [Nightly and Recurring Batch Jobs](#) section above.


Action Menu and Icons

See [Table Menu Options](#) in [Common User Interface Controls](#) for information about the options available in this section. You can also perform the following actions:

Actions Menu/Icons	Description
Show Disabled	Use the Actions > Show Disabled or Show Disabled . By Default, the table won't show any jobs with Disabled Status. Use Show Disabled button or action to see the list of Disabled jobs.
Run	Use the Actions > Run or the Run button to immediately run the individual job of the process or flow.
Skip	Use the Actions > Skip or the Skip button to skip the batch job immediately. Based on the status of the job (Loaded or Error), a warning pop up opens if the job needs to be skipped for the current failed execution or for the immediate next execution or for all job executions on the current business date.

Figure 2-13 Skip Warning – Job is in ‘Loaded’ or ‘Completed’ status

Skip A3_ADHOC_JOB2

 **Warning**
Skipping a job may result in data corruption. You are required to enter a detailed reason for this action.

Would you like to skip this job

for just the immediate next execution of the job ?

for all the job executions on the current business date ?

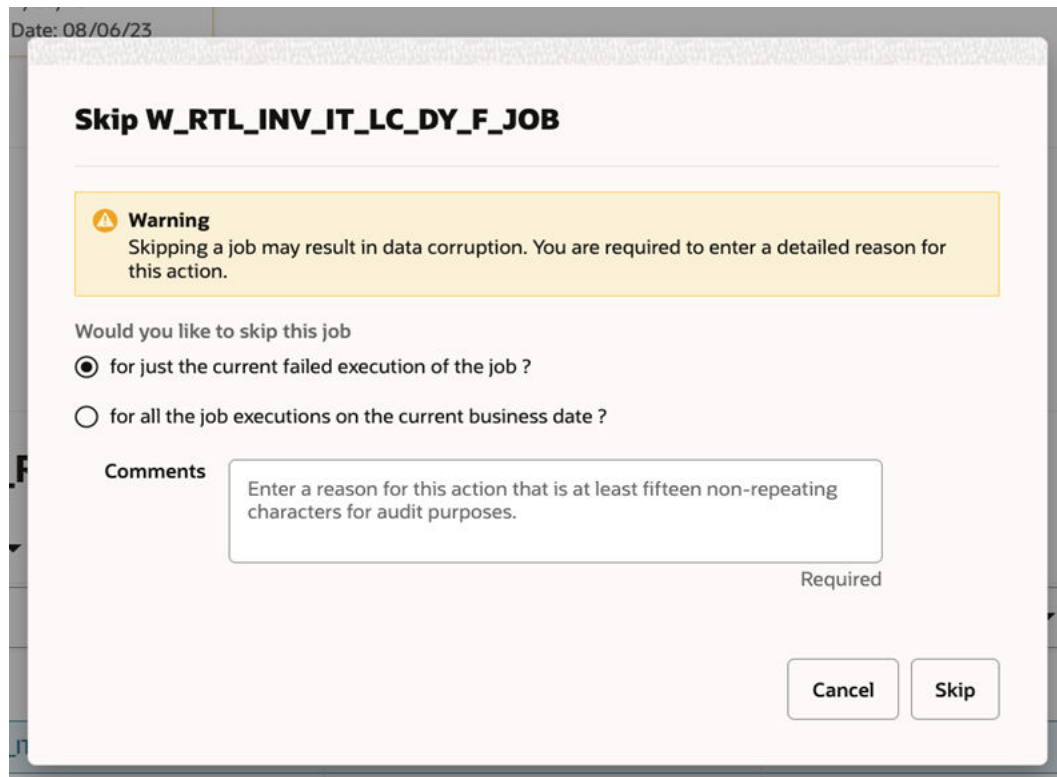
Comments

Enter a reason for this action that is at least fifteen non-repeating characters for audit purposes.

Required

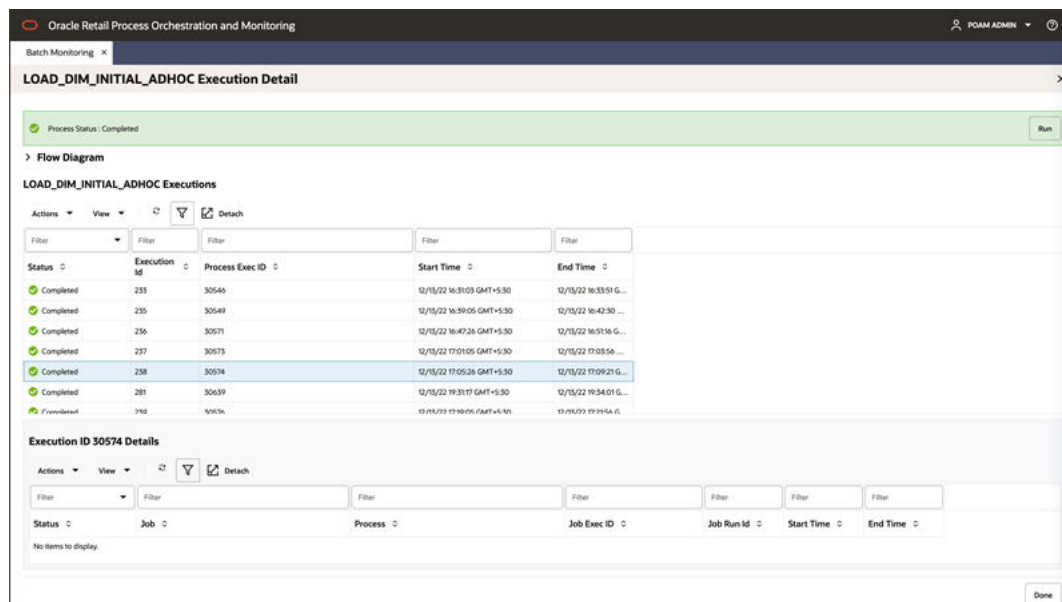
Cancel
Skip

Figure 2-14 Skip Warning – Job is in ‘Error’ status



Standalone Execution Details

Figure 2-15 Standalone Executions



Clicking on a flow/process link from the left panel of the Standalone Entities table opens a new modal window displaying the Batch Execution details. The following information is displayed about each execution.

- Status
 - Loaded – Jobs are in loaded state when the scheduler day is first created.
 - Completed – Job ran successfully on the system.
 - Error – A failure occurred due to an issue in the environment or the job's application.
 - Cancelled – Flow which are in Loaded status, are marked cancelled when the scheduler day is closed.
- Execution ID
- Process Exec ID
- Start Time
- End Time

Figure 2-16 Standalone Execution Detail

The screenshot shows the Oracle Retail Process Orchestration and Monitoring interface. The main window is titled 'LOAD_DIM_INITIAL_ADHOC Execution Detail'. At the top, there is a red banner indicating 'Process Status: Error'. Below this, there is a 'Flow Diagram' section. The main content area displays a table of 'LOAD_DIM_INITIAL_ADHOC Executions'. The table has columns for Status, Execution Id, Process Exec ID, Start Time, and End Time. One row is highlighted with a red error icon. Below the table, there is a section for 'Execution ID 10449 Details' which shows a table with columns for Status, Job, Process, Job Exec ID, Job Run Id, Start Time, and End Time. The status is 'Error' and the job is 'VARIABLE_REFRESH_JOB'.

The following information about the jobs executed for each Execution ID is displayed when an Execution row is selected.

- Status
 - Loaded - Jobs are in loaded state when the scheduler day is first created.
 - Disabled - Job is in disabled state.
 - Completed - Job ran successfully on the system.
 - Skipped - Job is in skipped.
 - Skipped_On_Error - Job is in skipped when it throws an error
 - Error - A failure occurred due to an issue in the environment or the job's application.

- Held – Job is in held state.
- Job – Name of the job
- Process – Name of the process
- Job Exec ID
- Job Run ID
- Start Time
- End Time

Clicking on the job link (for example, `VARIABLE_REFRESH_JOB`) from the Execution Details table opens the Batch Job details in a new modal window and provides detailed information about a batch job

Batch Job Details

The Batch Job Details screen provides detailed information about a batch job.

Depending upon the status of the job, one or more of the following buttons will be available at the top of the screen:

- Hold
- Run - This is available only for Standalone jobs.
- Release
- Release Skip
- Rerun
- Skip

Figure 2-17 Batch Job Details

Batch Job Details

Job AC_ATTR_MAINT_END_JOB

Job Status: Completed

Execution Requests

Status	Execution ID	Job Run ID	Request Time	Log
Completed	1387	5025665	09/12/23 14:10:36 GMT+5:30	Log

Executions

Status	ID	Job Run ID	Start Time	End Time	Log	Job Log
Completed	3601	5025665	09/12/23 14:10:31 GMT+5:30	09/12/23 14:10:36 GMT+5:30	Log	Job Log

Pre Dependencies

Status	Job	Process
Skipped	AC_CUSTOMER_TCA_MAINT_JOB	AC_ATTR_MAINT_PROCESS

Figure 2-18 Batch Job Details – Continued

Batch Job Details

Job AC_ATTR_MAINT_END_JOB

Job Status: Completed

Status	Job	Process
Skipped	AC_CUSTOMER_TCA_MAINT_JOB	AC_ATTR_MAINT_PROCESS

Post Dependencies

Status	Job	Process
Completed	AC_CLUSTER_TMPL_LOAD_START_JOB	AC_CLUSTER_TMPL_LOAD_PROCESS
Completed	ORASE_END_START_JOB	ORASE_END_PROCESS
Completed	CIS_CDA_ATTR_MAINT_START_JOB	CIS_CDA_ATTR_MAINT_PROCESS

External Dependencies No External Dependencies found

Inter-Schedule Dependencies No Inter-Schedule Dependencies found

Schedule Links No Schedule Links found

Callbacks No Callbacks found

Refresh Done

Figure 2-19 Batch Job Details with Status Information

Batch Job Details

Job Nightly_job

Job Status: Error
Reason: This Job has failed during execution at the Agent.
Resolution: Application script has failed. Please look into the application logs for further details, work with the respective application teams to fix the issue if required and restart the Job.

[Skip](#) [Run](#)

Execution Requests

Status	Execution ID	Job Run Id	Request Time	Log
Error	517	5565205	09/29/23 12:56:28 GMT+5:30	Error Info

Executions

Status	ID	Job Run ID	Start Time	End Time	Log	Job Log
Error	5191	5565205	09/29/23 12:56:28 GMT+5:30	09/29/23 12:56:28 GMT+5:30	#	#

Pre Dependencies No Pre Internal Dependencies found

Post Dependencies

Status	Job	Process
Pending	ROEBATCH_INITIAL_START_MILEMARKER_JOB	ROEBATCH_INITIAL_START_PROCESS

External Dependencies No External Dependencies found

Inter-Schedule Dependencies No Inter-Schedule Dependencies found

Schedule Links No Schedule Links found

Callbacks No Callbacks found

Refresh Done

Execution Requests

Status	Execution ID	Job Run Id	Request Time	Log
✘ Error	601	2550915	06/26/23 20:07:33 GMT+5:30	Error Info

Execution Requests

Status	Execution ID	Job Run Id	Request Time	Log
✔ Completed	511	2073840	06/06/23 14:33:29 GMT+5:30	#

If the job was executed, this section displays the following information about the job execution:

- Status
- Execution ID
- Request Time
- Log - Provides a link to download the execution log
- Error Info - This will only show in case of an error status

Executions

Executions

Status	ID	Job Run ID	Start Time	End Time	Log	Job Log
✓ Completed	3601	5025665	09/12/23 14:10:31 GMT+5:30	09/12/23 14:10:36 GMT+5:30	↓	↓

If the job was executed, this section displays the following information about the job execution:

- Status
- ID
- Job Run ID
- Start Time
- End Time
- Log -Provides a link to download the detailed execution log. This log, unlike the Job Log, contains more information related to POM application activities rather than just Job execution activities.
- Job Log -Provides a link to download the job execution log.

Pre Dependencies

Pre Dependencies

Status	Job	Process
✓ Completed	RI_IW_CUSTOM_9_JOB	RI_IW_CUSTOM_PROCESS

This section displays the following information about job pre-dependencies:

- Status
- Job - Click to open the job in the [Batch Job Details](#) screen.
- Process
- A **Disable/Enable** button is available for jobs that have not yet completed.

Post Dependencies

Post Dependencies

Status	Job	Process
✔ Completed	RI_IW_CUSTOM_END_JOB	RI_IW_CUSTOM_PROCESS

This section displays the following information about job post-dependencies:

- Status
- Job - Click to open the job in the [Batch Job Details](#) screen.
- Process
- A **Disable/Enable** button is available for jobs that have not yet completed.

External Dependencies

External Dependencies

Status	Source Job	Target Job
⚠ Skipped	AP_BATCH_AGG_D_JOB	EXTERNAL_TESTING

An external dependency is usually a dependency on a customer's internal process. This dependency is released once the customer calls an endpoint into POM for a specific POM job. This section displays the following information about job external dependencies:

- Status
- Job - Click to open the job in the [Batch Job Details](#) screen. The job that, when complete, will release the dependency which the currently displayed job is waiting on.
- A **Disable/Enable** button is available for jobs that have not yet completed.

Inter-Schedule Dependencies

Inter-Schedule Dependencies

Status	Source Job	Target Job	Target Process	Target Schedule
⚠ Skipped	AP_BATCH_AGG_D_JOB	AGG_UTILITY_JOB	AGGREGATION_UTILITY_ADHOC	RI
⚠ Disabled	AP_POST_DATA_IMP_START_JOB	AC_CLUSTER_SET_EXPORT_END_JOB	AC_CLUSTER_SET_EXPORT_PROCESS	RSP
⚠ Disabled	AP_POST_DATA_IMP_START_JOB	DT_EXPORT_END_JOB	DT_EXPORT_PROCESS	RSP


An inter-schedule dependency links the current schedule and a target schedule where a job in the target schedule is dependent on the completion of the currently displayed

job in the current schedule. This section displays the following information about job inter-schedule dependencies:

- Status
- Job - Click to open the job in the [Batch Job Details](#) screen. Job which is dependent on the source job.
- Process - Process containing the job.
- Schedule - Schedule containing the process/job.
- A **Disable/Enable** button is available for jobs that have not yet completed.

Schedule Links

Schedule Links


Status	Job	Process	Schedule	Info
 Pending	ALCDETAILSSDE_JOB	ALCDETAILSSDE_PROCESS	RDE	Info <input type="button" value="Disable"/>

This section displays the following information about schedule links for a job:

- Status
- Job - Click to open the job in the [Batch Job Details](#) screen. The job in the Target Schedule that., when completed, will fulfill the dependency for the currently displayed schedule.
- Process - The process the job belongs to.
- Schedule - The schedule whose job is a dependency for the job in the current schedule.
- Info - Shows information regarding error if failed or skipped.
- A **Disable/Enable** button is available for jobs that have not yet completed.
- A **Retry** button is available for schedule links with a Skipped or Failed status.

Callbacks

Callbacks

Status	Job	Process	Date	Payload	Info
 Failed	W_INT_ORG_DH_RTL_TMP_JOB	LOAD_DIM_INITIAL_ADHOC		Payload	Info <input type="button" value="Retry"/>

This section displays the external status update request and response callbacks based on the External Status Update mode set in the External [System Configuration](#) screen. This section displays the following information about job callbacks:

- Status
- Job - Click to open the job in the [Batch Job Details](#) screen.
- Process
- A **Payload** link to display the [Callback - Payload Window](#) for the callback.

- An **Info** link to display the [Callback - Info Window](#) describing the callback response.
- A **Retry** button is available for callbacks with a Skipped or Failed status.

Callback - Payload Window

The callback payload window shows the field name and value for each field in the payload.

Select **Done** to close the window.

Figure 2-20 Callback Payload Window



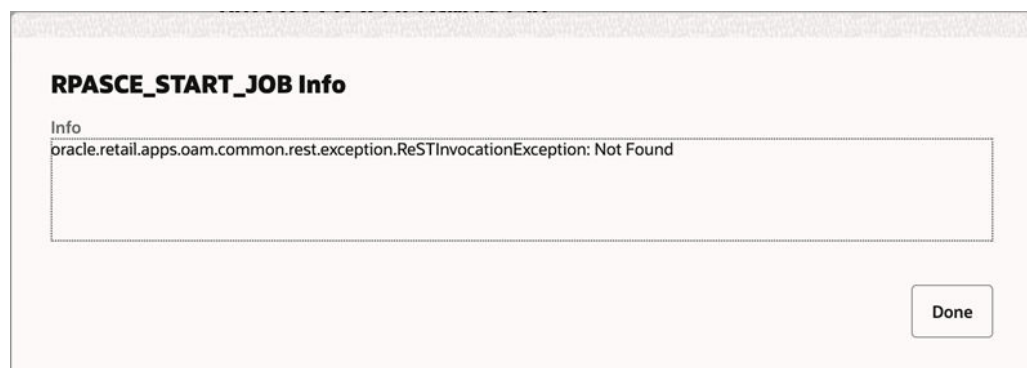
RPASCE_START_JOB Payload	
externalURL	dsdsds
processName	RPASCETEST_RPASCE_START_PROCESS
processExecutionId	RPASCETEST_RPASCE_START_PROCESS~646
activityName	RPASCE_START_JOB
activityExecutionId	2330070
callBackServiceDataDetail.rootProcess	RPASCETEST_RPASCE_START_PROCESS
callBackServiceDataDetail.rootProcessExeclId	RPASCETEST_RPASCE_START_PROCESS~646
status	DISABLED
activityStatus	DISABLED

Callback - Info Window

The callback info window shows information about a request and response.

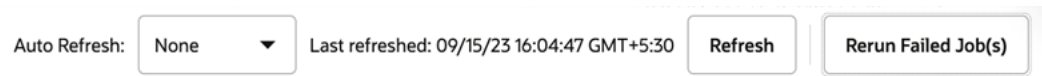
Select **Done** to close the window.

Figure 2-21 Callback Info Window



RPASCE_START_JOB Info
Info oracle.retail.apps.oam.common.rest.exception.ReSTInvocationException: Not Found

Footer



The screen can be set to auto refresh periodically by selecting the pre-defined interval from the **Auto Refresh** list. By default, this value is set to `None` on page load.

Use the **Refresh** button to refresh the screen immediately.

Use the **Rerun Failed Job(s)** button to open a pop-up list of all failed jobs in the cycle regardless of the reason for failure. The user can then select the jobs they want bulk-restarted.

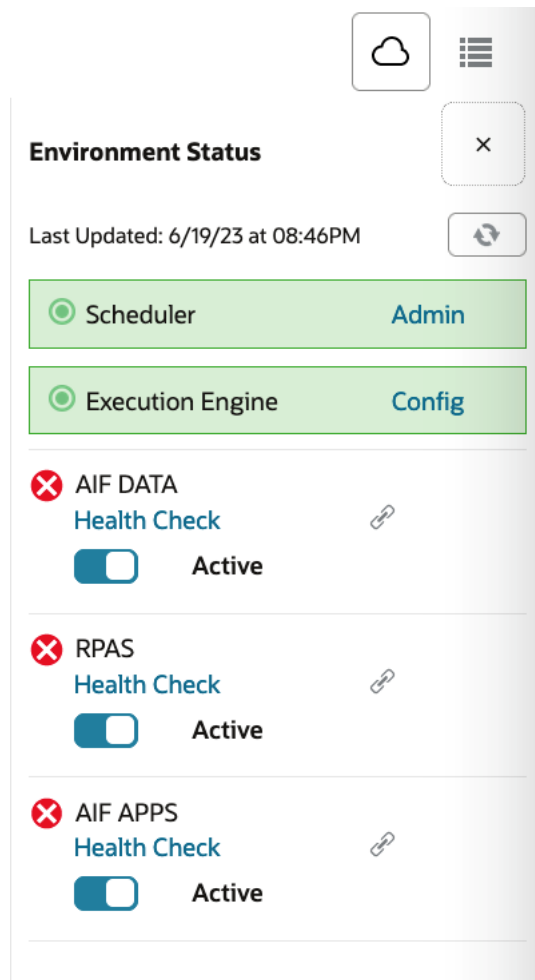
Last refreshed shows the time and date of the last refresh of the interface.

Status

Status

The Status sidebar displays information about the Scheduler, Execution Engine, and the environments that Process Orchestration and Monitoring communicates with to execute batches.

Figure 2-22 Status Sidebar



Scheduler

Displays the status of the Scheduler, and an **Admin** link to enable or disable the scheduler for a particular batch schedule in the [Scheduler Administration](#) window.

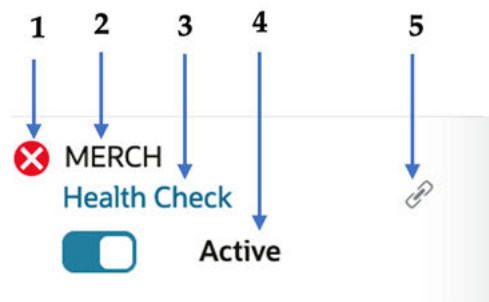
Execution Engine

Displays the status of the execution engine, and a **Config** show configuration of the execution engine in [Execution Engine Configuration](#).

Environment Statuses

Displays the following for each environment:

Figure 2-23 Environment Status



1. **Status** - Icon indicating the current status of the integration with the environment. This will be either success or error .
2. **Schedule** - Display Name of the Schedule
3. **Health Check** - Opens the [Health Check](#) for the schedule.
4. **Active/Suspended Switch** - Toggle button to suspend or activate the schedule. Suspending the schedule prevents new job run requests from being processed by POM. Jobs that are already running will keep running and won't be terminated. Activating the schedule causes POM to resume processing all job requests for the schedule.
5. **Link** - An icon which indicates if Inter-Schedule Dependencies are enabled or disabled.

Download Cycle Summary

Use the Download Cycle Summary window to download information about a completed batch cycle:

1. Click **Download Cycle Summary** in the [Batch Jobs Header](#).
The Batch Cycle Summary window opens.

Figure 2-24 Download Cycle Summary Window

2. Use the **Cycle** menu to select the cycle for which to download the summary.
3. Select the **Type** of data to download: **CSV** (comma-separated values) or **JSON**.
4. Click **Download** to download the summary file, or click **Cancel** to close the window without downloading.
5. Click **Open Report** to open the Batch Jobs Timeline window.

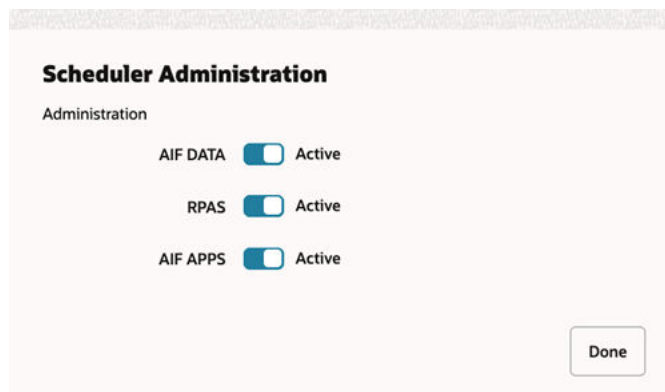
Scheduler Administration Window

The Scheduler Administration window allows you to enable or disable batch schedules.

When the Scheduler is disabled for a particular schedule, tasks will still be scheduled and will still trigger at the specified time but will immediately move to the Cancelled state.

Select the **Done** button to close the window.

Figure 2-25 Scheduler Administration Window



Execution Engine Configuration

The Execution Engine Configuration window displays configuration of communication between the user interface and the execution engine.

Select the **Done** button to close the window.

This window displays the following configurations:

Figure 2-26 Execution Engine Configuration Window

Execution Engine Configuration

Configuration

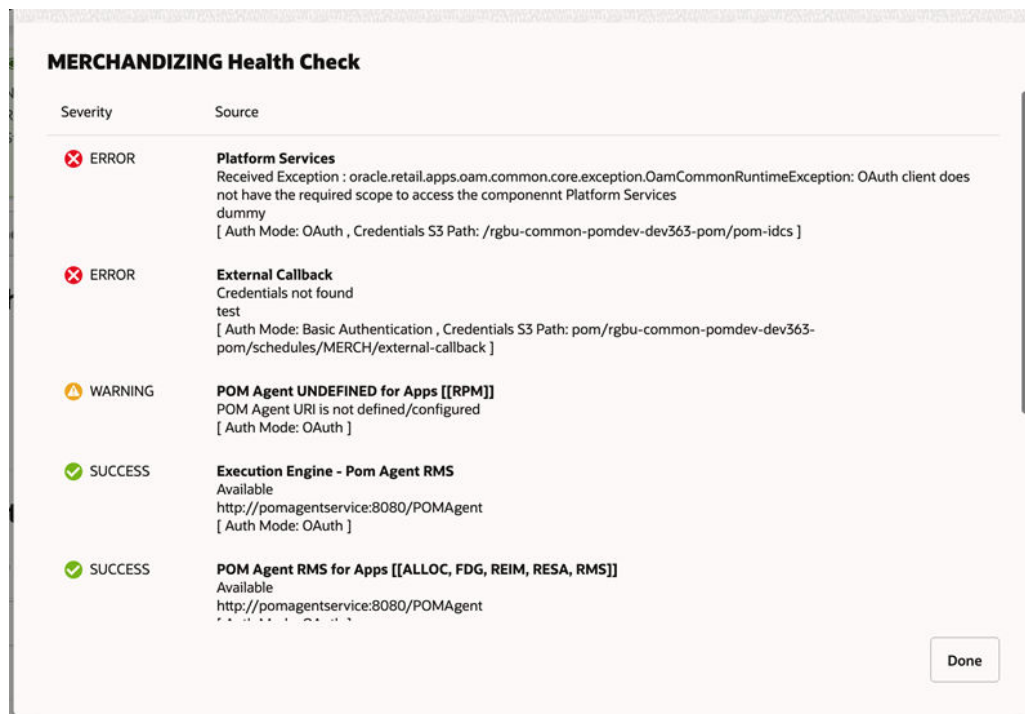
Executor Service Polling Interval	<input type="text" value="5"/>	Seconds
Monitoring Service Polling Interval	<input type="text" value="15"/>	Seconds
Thread Pool Size	<input type="text" value="100"/>	

- **Executor Service Polling Interval** - Determines the number of seconds between each polling interval for the batch execution process on Process Orchestration and Monitoring.
- **Monitoring Service Polling Interval** - Determines the number of seconds between each polling interval for the monitoring process on Process Orchestration and Monitoring.
- **Thread Pool Size** - Maximum number of concurrent threads permitted for use by the Execution Engine.




Health Check

The Health Check window displays the status of the processes communicating with the environment.

Figure 2-27 Health Check Window



This window displays the following for each communication process:

- **Severity** - The severity of any errors in communication:
 -  **SUCCESS** - The process communicates successfully.
 -  **ERROR** - The process is not communicating with the environment.
 -  – **WARNING** – POM Agent is not configured / not mapped to any application.
- **Source**
 - The name of the process
 - The response received by the process
 - POMAgent URL
 - Auth Mode and S3 path (if applicable)

Activity Feed

The Batch Monitoring screen includes an Activity Feed icon at the top right corner.



When the icon is clicked, the Activity Feed panel opens on the right side of the screen. The panel displays up to seven days' worth of activities performed both by the system and by users through the user interface.

Click the close window icon (✕) to close the window.

Figure 2-28 Activity Feed

The screenshot shows a mobile-style interface for an Activity Feed. At the top right, there are icons for a cloud, a list, and a close button. Below these is the title 'Activity Feed' and a search bar with the placeholder text 'Search by date or text' and a refresh icon. The feed contains three entries, each with a 'Business Date' header, a title, a subtitle, a description, and a timestamp with the user's email address.

Business Date : 13/09/2023
Scheduler Day Started
No Comments
15/09/2023, 15:49:51 GMT+5:30
amish.sinha@Oracle.com

Business Date : 12/09/2023
Skipped Elapsed Hourly Flow(s)
Skipped elapsed hourly cycle(s) [all available] for all enabled flows as part of Nightly request start since Nightly is waiting for 12-SEP-23
12/09/2023, 14:05:39 GMT+5:30
System

Business Date : 12/09/2023
Scheduler Task Run
Action Performed on [Nightly/DUMMY_START_NIGHT_BATCH_PROCESS] with Comment [Run Job Dummy_Nightly from Rpas test Nightly for day 09/12/23]
12/09/2023, 14:05:37 GMT+5:30
amish.sinha@Oracle.com

Business Date : 12/09/2023
Scheduler Day Started
No Comments
12/09/2023, 14:05:24 GMT+5:30
amish.sinha@Oracle.com

System Configuration

The System Configuration screen allows an administrator to modify parameters and connection properties for the environments integrated with Process Orchestration and Monitoring. It also allows an administrator to maintain POM application-level configurations.

Select **System Configuration** in the [Navigation Area](#) to open the System Configuration screen and select the Schedules tab. This tab displays the schedule level configurations for each schedule setup for this environment.

Figure 2-29 System Configuration

Schedule Name	Business Date	Last Schedule Update	Patch Mode	Data Retention Days	Long Run Average Time Multiplier	External Dependencies	InterSchedule Dependencies	ALLOCS Throttle Limit	RIS Throttle Limit	Environment	External URL	External Status Update Mode	Credentials
MERCH 23.1.315 (MERCH)	13/09/23		No	32	1	Enabled	Enabled	10		23.2.401.0	www.merch-ext.com	ALL	No
AIF DATA 23.2.302.2 (RI)	13/09/23		Yes	30	2	Enabled	Enabled	12		23.2.401.0		NONE	No
Rpas test 23.2.401.26 (RPAS)	12/09/23		Yes	30	2	Enabled	Enabled	10		23.2.401.0		NONE	Yes
RSP 23.1.101.4 (RSP)	13/09/23		No	30	2	Enabled	Enabled	10		23.2.401.0		NONE	No

Configure New Schedule

When POM is first installed for a specific customer, it does not include any application batch schedules out of the box such as Merchandising, Retail Intelligence, and so on. An Oracle administrator or a system integrator needs to first configure those schedules before they can be loaded (from a batch schedule spreadsheet). Configuring a new schedule entails setting up schedule properties such as the schedule name and description, customer environment information for callbacks. It also entails setting up the location of different components and services with which different POM components need to interact to function properly.

Configuring a new schedule is typically done upon provisioning the environment by Oracle operations. If for any reason the configuration has not yet been done by Oracle, an administrator can alternatively accomplish that through the UI.

To configure a new schedule, click the **Configure New Schedule** button at the top right of the Schedules tab of the [System Configuration](#) screen. The Configure New Schedule window is displayed.

Figure 2-30 Configure New Schedule

The following new schedule information can be set on this window:

- **Schedule Configuration** - This is for identifying and describing the schedule. Attributes for this section are:
 - **Schedule Name (Mandatory)** - A short identifier of the new schedule. This usually matches the main application name such as Merchandising, RI, and so on.
 - **Description (Mandatory)** - A short description of the schedule.
- **External System Configuration (Optional)** - This identifies an external system, typically a customer's environment. This is needed for optionally notifying the customer's system of a job failure or success. This feature is also referred to as Callback. Attributes for this section are:
 - **URL**
 - **Username**
 - **Password**
- **Platform Services (Optional)** - Internal Oracle services for retrieving information stored there by other applications or systems. Attribute for this section is:
 - **URL**
- **Job Agent (Mandatory)** - The Job Agent is a component of POM responsible for submitting the request to execute a batch job. This is usually deployed in the same location as the application where the jobs actually run. The same agent can be used for multiple schedules. If the schedule being configured contains multiple applications, it is optional to add an agent for each application. This isn't a common practice however as an agent can handle running multiple applications. Attribute for this section is:
 - **URL**

 **Note:**

For custom schedules, the Agent URL must be set to <http://pomagentservice:8080/POMAgent>. This will enable POM to use its internal/common Agent to run jobs.

- **Schedule Variables (Optional)** - These variables hold System (POM) level configurations such as IDCS or OCI IAM URL, or Job level configurations such as batch directory, DB_ALIAS, and so on. The job level configurations can also be defined on the batch schedule spreadsheet. Attributes for this section are:
 - **Type** - Job or System
 - **Variable Name**
 - **Value**
- **Services (Optional)** - This section allows for entry of services POM integrates with. These include the BDI Process Services, IDCS or OCI IAM, and all services corresponding to the different applications with service-type batch jobs. Attributes for this section are:
 - **Type** - This is a drop down for all the possible service types; for example, the RI Web Services URL which POM would use to invoke RI service-based batch jobs.
 - **Application** - Application Name to which this service corresponds such as RI.
 - **URL**
- **Job Type (Optional)** - This is an optional section for setting up one or more custom job types other than the standard, pre-defined job types provided by the retail applications, such as EXEC, RI, RASE, BDI, RDS, OB, OMS, and RPAS. The user then associates a custom job type with the base URL for endpoints at the destination system. These are endpoints for starting a job, restarting a job, killing a job, checking status of a job, fetching the log for a job, and validating the URL. By setting up a custom job type, the user must then create a custom schedule spreadsheet containing jobs with that job type. When this batch schedule runs, POM executes that job using the corresponding, defined Start endpoint. If the user misses the opportunity to configure the job type at this point, they do have the opportunity to add that using the Job Type Configuration screen (see [Create / Edit Job Type](#) for more information). Attributes for this section are:
 - **Name** – A short, alphanumeric identifier of the job type. This typically reflects the system or application where associated jobs are to be executed (for example, RDS).
 - **URL** – Base URL for endpoints at the destination system where batch is to be invoked (for example, <https://server/services/batch>).
 - **OAuth Scope** – Authentication scope for accessing the batch endpoints at the above URL.

Schedule Settings and Connections Configuration

Select the **Schedules** tab on the [System Configuration](#) screen to configure the settings and connections for an environment.

The following information is shown for each environment:

RI 23.2.301.0 (RI)

- Display Schedule Name.
- Schedule version number.
- Schedule name abbreviation (in parenthesis).

 **Note:**

This is the name to be used when calling POM APIs.

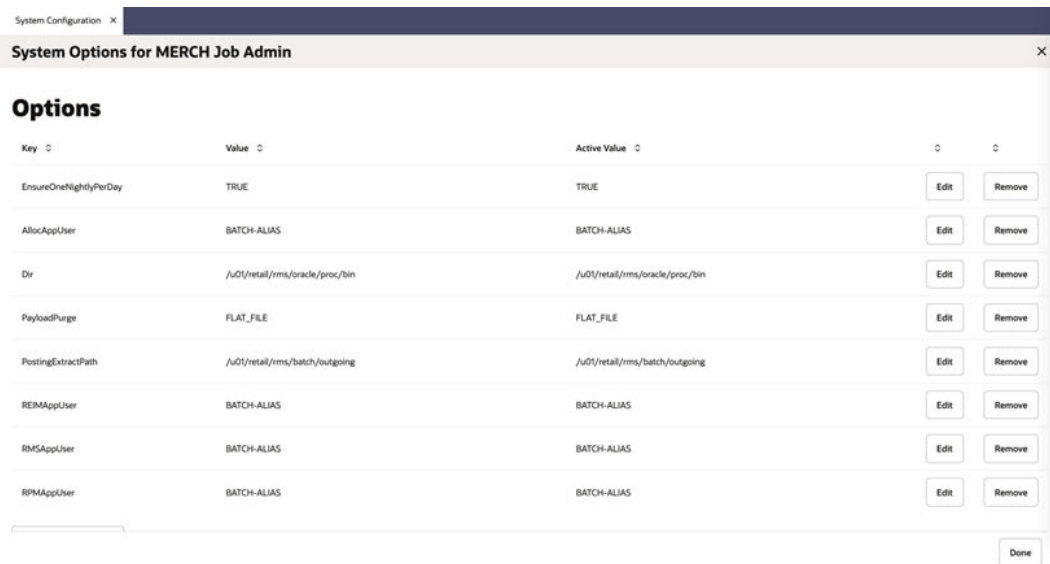
Business Date: 23/06/23 [System Options](#)
Last Schedule Update:

- **Business Date** - Date for which the specific schedule's batches will run next.
- The system options are a set of key-value pair of attributes and values specific to the given schedule such as location of directories or throttle enabling setting. System options can also be used to define shell script warning or error exit codes. If any such codes are specified, they will cause a shell-script-based job to fail or complete with warning.

Examples of system options:

- **Last Schedule Update** - Last date on which the schedule was updated.
 - **Patch Mode** - Enable/disable the patch mode to activate/cancel a patch respectively. This switch is turned on when the POM application or an individual schedule is in the process of being patched. In this case, POM will block any new execution requests for the affected schedule(s). The switch is then turned off when the patch is done. It is not recommended for users to alter this switch on this screen except to turn it off in some situations. The most common situation is when patching is held up or errors out and the patch is to be ignored so that users can resume using the application.
- **System Options link**
Each Schedule is associated with a number of system options specific to its environment and settings. Those can be edited by clicking the **System Options** link located next to the Business Date.

Figure 2-31 Edit System Options



The system options are a set of key-value pair of attributes and values specific to the given schedule such as location of directories or throttle enabling setting. System options can also be used to define shell script warning or error exit codes. If any such codes are specified, they will cause a shell-script-based job to fail or complete with warning.

Examples of system options:

Key	Value
enableThrottling	FALSE
WarningCode110	Some input files were not processed
ErrorCode40	Input file corruption detected

The user can alter the value of a system option by adding an Active Value in the Edit window.



The user can also add and remove options.

- **Settings** - See [Edit Settings](#) for details.

Settings

Data Retention Days	30
Long Run Average Time Multiplier	2
External Dependencies	Enabled
InterSchedule Dependencies	Enabled

- Data Retention Days
- Long Run Average Time Multiplier
- External Dependencies
- InterSchedule Dependencies

- **Throttling** - See [Edit Throttling](#) for details.

Throttling

RIS Throttle Limit	12
--------------------	-----------

- Job Agent Throttle Limit

- **Environment** - See [Edit Environment](#) for details.

Environment

RIS	Unknown
-----	----------------

- Job Agent name (for example, RPASCE). This also acts as a link which, when clicked, opens the [Job Agent Configuration Window](#).
- Job Agent version

- **External Configuration** - See [Edit External Configuration](#) for details.

External Configuration



External URL

http://externalstatusurl

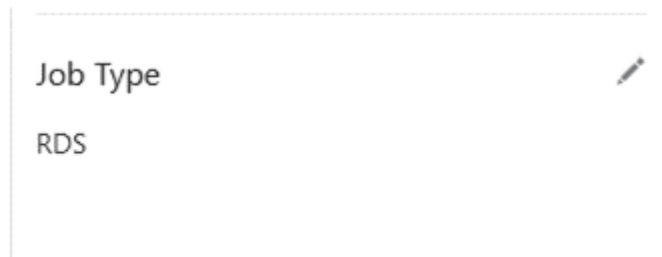
External Status Update Mode

ALL

Credentials

No

- External URL
- External Status Update Mode
- Credentials
- **Job Type** - See [Create / Edit Job Type](#) for details.



- **Job Type** - For example, **RDS**.

Edit Settings


To edit the settings for an environment, click the edit icon  in the Settings section to open the Settings window.

Figure 2-32 Edit Settings Window

Settings for RPASCE 23.1.201.0

* Data Retention Days
Enter a number greater than or equal to 1.

* Long Run Average Time Multiplier

* Default Average Run Time

* Business Date:
Current Business Date is 06/06/23

Background Jobs Disabled

External Dependencies Enabled

InterSchedule Dependencies Disabled

Repave Config

Repave Strategy Fixed Variable

* Window Duration Seconds

Target Batch Duration Minutes

Cancel OK

The following settings are available in this window:

- **Data Retention Days** - Number of days for which data is to be retained
- **Long Run Average Time Multiplier** - Used to calculate when a job is considered long running.

If a Threshold Run Time is specified on the Edit Job popup of the Batch Administration screen, then a job is deemed long running if its current run time exceeds that value. Otherwise, if a Threshold Run Time is not specified, then the job is deemed long running when its current run time exceeds this Long Run Average Time Multiplier times the average run time of that job. For example, if a job's average run time is 3 minutes, and the Long Run Average Time Multiplier is 3, then the job is considered long running if it has been running for at least 9 minutes. A notification is sent when a job is deemed long running.
- **Default Average Time** - Used instead of multiplying a job's average run time by the Multiplier (on this screen) when the job does not have run history. This is to determine whether a job can run on a certain node when the Node Repaving is upcoming. For example, say a node's repaving is taking place in 30 minutes. If a job has a run history and its average runtime multiplied by the Multiplier is greater than 30 minutes, then the job will run on a different node. If however the job has no run history, then this Default Average Time is used instead.
- **Business Date** - The earliest business date for which to run batch schedules. See [Business Date Explained](#) for an explanation of how POM uses this setting.
- **Background Jobs** - Enable or disable background jobs.

- **External Dependencies** - A switch for enabling or disabling external dependencies.
- **InterSchedule Dependencies** - A switch for enabling or disabling InterSchedule dependencies.
- **Repave Strategy** - This strategy together with the next field's value is used to determine if a job should be allowed to run on a particular server node. When a node is scheduled to be repaved (updated with the latest software patch), no batch job should be running on it when the repave starts. To prevent such a situation, a best guess is needed as to when a node should stop accepting jobs to be run. There are two strategies for determining when that time is:
 - **Fixed:** Uses the next field's value (Window Duration - in seconds) to determine the time at which the node will start rejecting requests for running jobs. For example, if this value is 3600 seconds, the node will stop accepting requests one hour before the repave starts.
 - **Variable:** Multiplies the next field's value (multiplier) with the job's average run time to determine if the node likely has enough time to run the job to completion. For example, if the multiplier is three and the job about to be submitted for running on this node has an average run time of five minutes and the repave is due to start at a time longer than the 15 minutes (the product of the two numbers), the job will be allowed to run. Otherwise, it won't be.

 **Note:**

If a job does not have a run history (therefore does not have an average runtime), then the Default Average Time (also defined on this screen) is used instead of multiplying a job's average run time by the multiplier field defined next.

- **Window Duration / Multiplier** - This field is dynamically altered on the screen depending on the previous field's value and is used in conjunction with the previous field. See the previous field's explanation for details.
- **Target Batch Duration** - This is in minutes. This value is used as a target/baseline on the bar graph in the Batch Timings section of the Nightly Batch Summary report. See the [Nightly Batch Summary](#) report in the [Reports](#) section of this guide.

Select **OK** to save the changes or select **Cancel** to exit the window without saving changes.

Business Date Explained

When the business date is initially set, it's supposed to be set as the First Run Business Date. It's meant for the POM application to compare to the Current Business Date (shown below the Business Date on the screen). If the (First Run) Business Date is earlier than the Current Business Date, POM will run the next batch schedule for the day after the Current Business Date. If the (First Run) Business Date is later than the Current Business Date, POM will run the next batch schedule for that date rather than the day after the Current Business Date.

 **Note:**

The Current Business Date advances automatically every time batch completes for the day

The reason the (First Run) Business Date is updatable on this screen, is to give the ability to start the next schedule run at that date, skipping some run days. Here are a couple example scenarios:

Scenario 1: Common Scenario

System Configuration screen's Business Date: 11/28/2019

System Configuration screen's Current Business Date: 08/12/2019

The next batch schedule run will be for business date 08/13/2019.

When that batch run starts, the Current Business Date advances to 08/13/2019 and the screen is updated accordingly.

Scenario 2: Skip a Few Days

System Configuration screen's Business Date: 11/28/2019

System Configuration screen's Current Business Date: 08/12/2019

User changes the Business Date on the System Configuration screen to 08/18/2019

The next schedule run will be for business date 08/18/2019.

When that batch run starts, the Current Business Date moves to 08/18/2019 (since the (First Run) Business Date is greater than Current Business Date) and the screen will be updated accordingly. The (First Run) Business date will remain at 08/18/2019 until changed by an administrator on this screen.

Edit Throttling


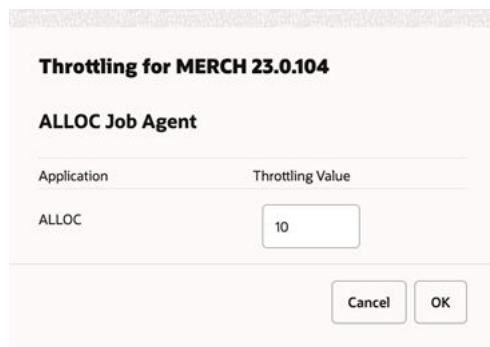
The throttling settings can be changed by selecting the edit icon  in the Throttling section to open the Throttling window.

Figure 2-33 Edit Throttling Window




Application	Throttling Value
ALLOC	10

This window allows for update of the throttling value for each application hosted on this Job Agent.

Select **OK** to save the changes or select **Cancel** to exit the window without saving changes.

Edit Environment

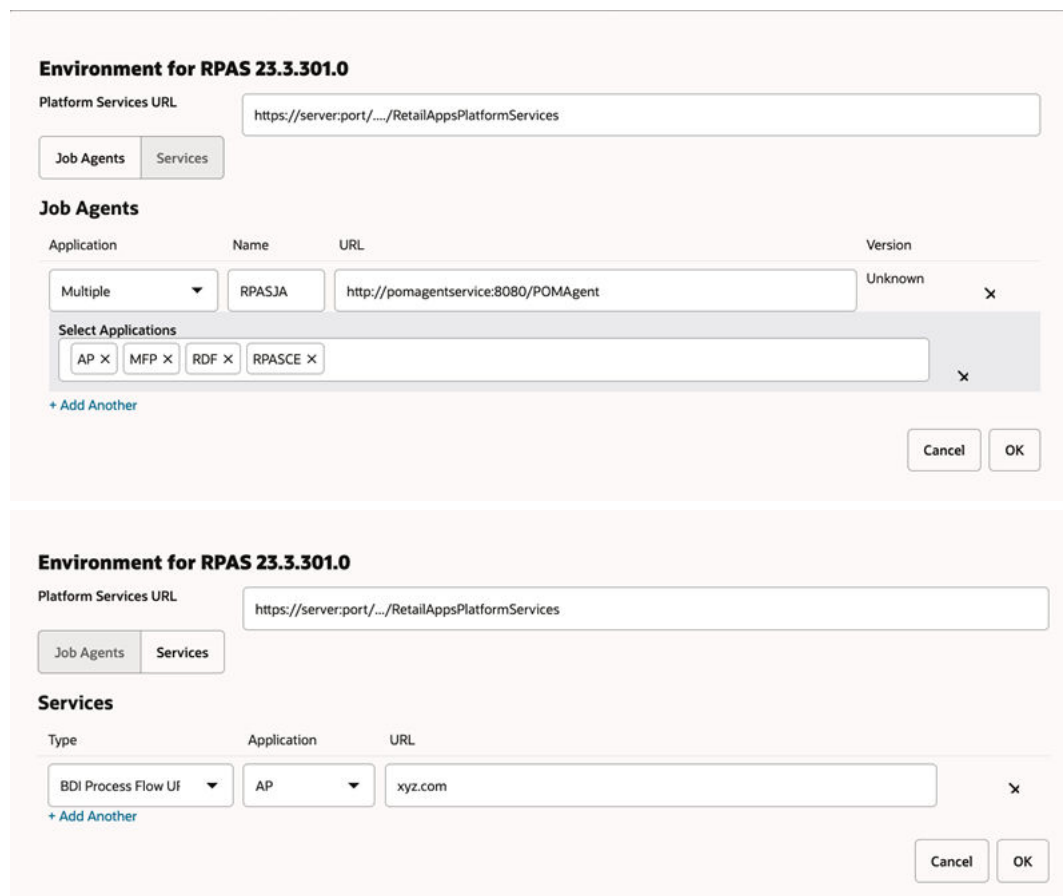
The environment settings can be changed by selecting the edit icon  in the Environment section to open the Environment window.

Note:

One schedule can be supported by one or multiple Job Agents. Usually, the mapping is one Job Agent to an application.

Also, the Job Agent is a component of POM responsible for submitting the request to execute a batch job.

Figure 2-34 Edit Environment Window



The screenshot displays the 'Edit Environment Window' for 'RPAS 23.3.301.0'. At the top, the 'Platform Services URL' is set to 'https://server:port/.../RetailAppsPlatformServices'. Below this, there are two tabs: 'Job Agents' and 'Services'. The 'Job Agents' tab is active, showing a table with columns for Application, Name, URL, and Version. The 'Application' column has a dropdown menu set to 'Multiple'. The 'Name' field contains 'RPASJA', and the 'URL' field contains 'http://pomagentservice:8080/POMAgent'. The 'Version' field is 'Unknown'. Below the table, there is a 'Select Applications' section with a search bar and several application tags: 'AP X', 'MFP X', 'RDF X', and 'RPASCE X'. A '+ Add Another' link is present below the search bar. At the bottom right of the 'Job Agents' tab, there are 'Cancel' and 'OK' buttons.

The 'Services' tab is also shown, with columns for Type, Application, and URL. The 'Type' dropdown is set to 'BDI Process Flow UF', the 'Application' dropdown is set to 'AP', and the 'URL' field contains 'xyz.com'. A '+ Add Another' link is present below the search bar. At the bottom right of the 'Services' tab, there are 'Cancel' and 'OK' buttons.

At the top of the Environment window, the user can set the Platform Services URL.

The window then provides two tabs: the **Job Agents** tab and the **Services** tab.

On the Job Agents tab, the user can add or change the following Agent related information:

- **Application** - application name
- **Name** - Agent's name
- **Job Agent Version** - Release version of the Agent
- **Job Agent URL**

On the Service tab, the user can add or change services related information. These are services that POM integrates with, such as BDI Process Services, IDCS or OCI IAM, and all services corresponding to the different applications with service-type batch jobs.

Select **OK** to save the changes or select **Cancel** to exit the window without saving changes.

Job Agent Configuration Window

The Job Agent Configuration window displays configuration information about the selected Agent.

An Agent is the component usually deployed alongside the application for which the batch runs. It receives requests from the POM application, usually deployed on a common server. These requests direct the agent to invoke the actual job execution on the target application.

Select the **Done** button to close the window.

Figure 2-35 Job Agent Configuration Window

The screenshot shows the 'RPASCE Agent Configuration' window. It is divided into four main sections:

- Configuration Settings:** A table with two columns: Name and Value.

Name	Value
supportedApps	AP,MFP,RDF,RPASCE
isRDSIntegrated	true
scheduleName	RPASCETEST
- Throttle Groups:** A table with two columns: Group Name and Throttle Limit.

Group Name	Throttle Limit
RPASCETEST	10
RPASCETEST_AP	10
RPASCETEST_MFP	10
RPASCETEST_RDF	10
RPASCETEST_RPASCE	10
- Configuration URLs:** A table with two columns: Type and Url.

Type	Url
IDCS	https://idcs-ca69887b7ea4451ebdf967e2a383629e.identity.c9dev2.oc9qadev.com
POM	https://home.retail.us-phoenix-1.ocs.oc-test.com/rgbu-common-pomdev-dev1210-pom
RDSURL	ugiyftucxgghvj
RPASWSURL	http://pomagentservice:8080/POMAgent
- Job Types Configuration:** A table with three columns: Job Type, Definition, and Url.

Job Type	Definition	Url
CUSTOM	Info	http://customjob.com

This window displays information about the Agent's **Configuration Settings**, **Throttle Groups** and **Job Types**.

It also displays a **Configuration URLs** section which lists service URLs that POM needs to operate. These include service URLs for calling endpoints to execute batch in the case where the jobs are service-based (versus shell-script-based) and are of pre-defined job types such as RI, RASE and RPAS.

The **Throttle Groups** section displays throttle limits (the maximum number of jobs that can execute concurrently). These are defined either on the batch schedule spreadsheet or on the **Throttling** section of this [System Configuration](#) screen.

The **Job Types Configuration** section displays all custom job types defined either on the batch schedule spreadsheet or on the **Job Type** section of this [System Configuration](#) screen.

This window also features a **Sync With POM** button (formerly called **Publish**). When clicked, it will synchronize the information on this screen from POM to the Job Agent. These changes are also synchronized automatically to the Job Agent upon the daily creation of a new scheduler day.

Edit External Configuration


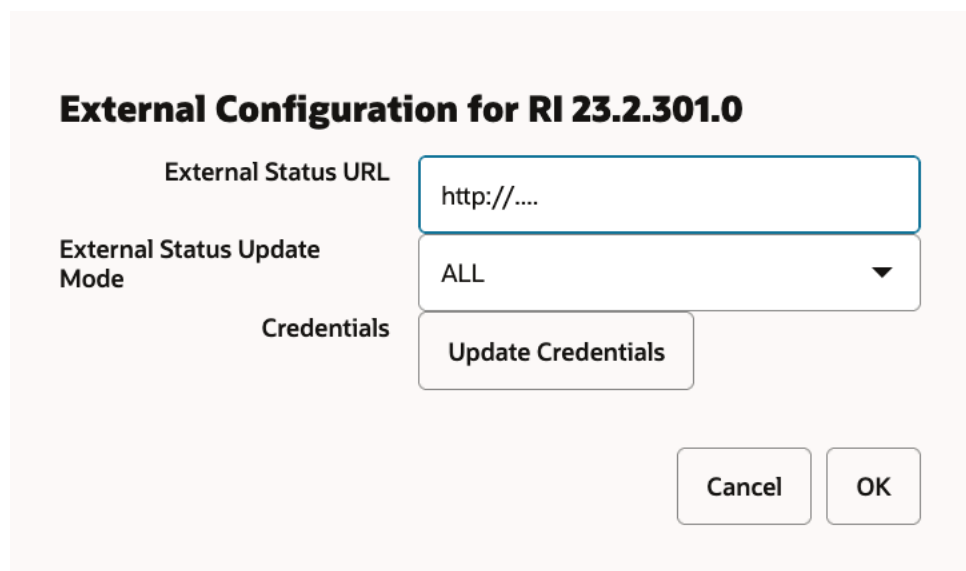
The external configuration settings can be changed by selecting the edit icon  in the External Configuration section to open the External Configuration window.

Figure 2-36 Edit External Configuration Window



External Configuration for RI 23.2.301.0

External Status URL

External Status Update Mode

Credentials

The following settings are available in this window:

- **External Status URL** - Customer system's URL that is called when POM is to notify the customer's system. Note that this calling feature is also referred to as Callback.
- **External Status Update Mode** - Job status for which POM is to call the customer's URL. This menu has the following options:
 - **ALL** - POM will make a call for each job's execution regardless of success or failure.
 - **FAILED** - POM will make a call only for failed jobs.
 - **NONE** - POM will never make a call.
- **Update Credentials** - When clicked, Username and Password fields are shown. Setting these values will update the credentials POM uses to call the customer's URL.

Select **OK** to save the changes or select **Cancel** to exit the window without saving changes.

Job Types

Job Types window displays a table of configured job types. The user can edit or delete an existing row or create a new job type.

See the “Generic ReST Jobs” chapter of the *POM Implementation Guide* for additional details on setting up custom schedules with custom job types.


Figure 2-37 Job Types Table

Job Type	URL	Job Start	Job Restart	Job Status	Job Kill	Job Logs	Validation	Scope	Custom Credential
JobType	http://ndur.com/	/start	/restart	/status	/kill			scope1	
JobType2	http://fdtype2.com	/startJobType	/restartJobType	/statusJobType				scope2	✓

Each row contains the fields:

- **Job Type** - A short, alphanumeric identifier of the job type. This typically reflects the system or application where associated jobs are to be executed (for example, RDS).
- **URL** - Base URL for endpoints at the destination system where batch is to be Invoked (for example, https://server/services/batch).
- **Job Start** - Endpoint for invoking the execution of a job.
- **Job Restart** - Endpoint for restarting the execution of a job after failure.
- **Job Status** - Endpoint for POM to fetch the status of a started job.
- **Job Kill** - Endpoint for terminating the execution of a running job.
- **Job Logs** - Endpoint for fetching the log(s) for a job.
- **Validation** - Endpoint for validating that the endpoints are reachable.
- **Scope** - Authentication scope for accessing the above endpoints.
- **Custom Credential** - Displays a tick mark if the credential is custom created by the user for that job type. Else, blank.

Create / Edit Job Type

A new job type can be created by selecting the Create icon  in the **Job Types** section to open the **Job Type Configuration** window. The system default OAuth Credentials can be used for authentication.

Alternatively, custom credentials with the IDCS URL and the Client ID and Client Secret can be used for authentication using an IDCS instance other than POM's.

Figure 2-38 Create Job Type – Using System Default OAuth Credentials

Create New Job Type For SIOCS

Job Type:

Url:

Job Start:

Job Restart:

Job Status:

Job Kill:

Job Logs:

Validation:

OAuth Scope:

OAuth Credentials: Use System Default Use Custom

Figure 2-39 Create Job Type – Using Custom OAuth Credentials – IDCS URL

Create New Job Type For SIOCS

Job Type:

Url:

Job Start:

Job Restart:

Job Status:

Job Kill:

Job Logs:

Validation:

OAuth Scope:

OAuth Credentials: Use System Default Use Custom

IDCS Slice

IDCS Url:

Credential

No Credentials Configured

Figure 2-40 Create Job Type – Using Custom OAuth Credentials – Client ID and Secret

Create New Job Type For SIOCS

Job Type:

Url:

Job Start:

Job Restart:

Job Status:

Job Kill:

Job Logs:

Validation:

OAuth Scope:

OAuth Credentials: Use System Default Use Custom

IDCS Slice

IDCS Uri:

Credential

No Credentials Configured

Client Id:

Client Secret: Required


Additionally, an existing job type configuration can be changed by selecting the edit icon .

Figure 2-41 Edit Job Type

REST Job Type

Url:

Job Start:

Job Restart:

Job Status:

Job Kill:

Job Logs:

Validation:

OAuth Scope:

OAuth Credentials: Use System Default Use Custom

IDCS Slice

IDCS Uri:

Credential

Client Id:

 **Note:**

If the selected job type is using custom credentials, the popup will also show the corresponding client id.

Select **OK** to save the changes or select **Cancel** to exit the window without saving changes.

See the “Generic ReST Jobs” chapter of the *POM Implementation Guide* for additional details on setting up custom schedules with custom job types.

System Settings

Select the System tab in the System Configuration screen to view the system configuration for Process Orchestration and Monitoring.

Figure 2-42 System Information Screen



Edit System Settings


Select the edit icon  (not shown) located at the rightmost of the System Information window to enable the editing of information on this window.

Figure 2-43 Edit System Settings Window

System Settings

System

Environment Name QA1112

Customer Name pomQA

Environment

Process Services URL https://home.retail.us-phoenix-1.ocs.oc-test.com/rgbu-common-pomqa

Platform Services URL https://home.retail.us-phoenix-1.ocs.oc-test.com/rgbu-common-pomqa

RDS Integration Enabled

Retail Data Store URL http://rdsurl.com

Cancel OK

The following settings are available in this window:

- **Environment Name** – This is the physical environments name such as '<customer name> stage 1'.
- **Customer Name**
- **Process Services URL** – This URL is set at install time and cannot be changed on this window. It shows the value of POM's services URL.
- **RDS Integration** – Flag indicating whether POM is integrated with Retail Data Store (RDS)..
- **Retail Data Store URL** – Shows the value of the RDS URL. It can be updated on this window.'

Select **OK** to save the changes or select **Cancel** to exit the window without saving changes.

Remove Existing Schedule

Select the **Remove Existing Schedule** button to open the **Remove Schedule** dialog. This screen removes the selected schedule (from the drop down) from the POM Application.

Figure 2-44 Remove Schedule Screen

Remove Schedule

Warning
This action completely removes the selected schedule data from the System and cannot be undone

Select Schedule: RPAS

* Comment: RPAS Schedule - Remove

Cancel Ok

Global Edit

Select the Global Edit button to open the Global Edit screen. This screen sets configurations for all the schedules. Refer to the sections above for explanation of the different configurations.

Figure 2-45 Global Edit Screen

System Configuration x

Global Edit x

Select fields to apply as updates to all schedules.

Settings

Apply	Label	Value
<input type="checkbox"/>	Data Retention Days	
<input type="checkbox"/>	Long Run Average Time Multiplier	
<input type="checkbox"/>	Business Date:	
<input type="checkbox"/>	Background Jobs	<input type="checkbox"/>
<input type="checkbox"/>	External Dependencies	<input type="checkbox"/>
<input type="checkbox"/>	InterSchedule Dependencies	<input type="checkbox"/>
<input type="checkbox"/>	Repair Strategy	<input type="radio"/> Fixed <input type="radio"/> Variable

External Configuration

Apply	Label	Value
<input type="checkbox"/>	External URL	
<input type="checkbox"/>	External Status Update Mode	ALL
<input type="checkbox"/>	Credentials	Username Password

Cancel OK

Use the **Apply** check boxes to activate the fields for the settings to be applied to all schedules. The following settings can be applied to all schedules:

- Data Retention Days
- Long Run Average Time Multiplier
- Business Date

- Background Jobs
- External Dependencies
- InterSchedule Dependencies
- External URL
- External Status Update Mode
- Repave Strategy
- Credentials:
 - Username
 - Password

Batch Administration

The batch administration screen provides the ability to maintain information specific to the batch schedule.

Select **Batch Administration** in the [Navigation Area](#) to open the Batch Administration tab.

Figure 2-46 Batch Administration

The screenshot shows the Oracle Retail Process Orchestration and Monitoring interface. The main content area displays a table of batch jobs for 'MERCH Nightly'. The table has columns for Enabled, Job, Process Name, Base Priority, Active Priority, Application, Module, Base Phase, Active Phase, Base Parameter, Active Parameter, Job Type, and Kill Clear. The table lists various jobs such as ALC_DAILY_CLEANUP_JOB, ALC_DASHBOARD_REFRESH_JOB, ALC_PURGE_ALLOC_JOB, ALC_PURGE_WRK_JOB, ALC_SCHEDULER_JOB, ALC_SHRINK_SESSION_JOB, ALC_SNAP_SHOT_ALLOC_IN_JOB, ALC_SNAP_SHOT_ALLOC_OUT_JOB, ALC_SNAP_SHOT_CROSS_LINK_JOB, ALC_SNAP_SHOT_CUST_ORD_JOB, ALC_SNAP_SHOT_ON_ORD_JOB, and ALC_SNAP_SHOT_SOH_JOB.

Enabled	Job	Process Name	Base Priority	Active Priority	Application	Module	Base Phase	Active Phase	Base Parameter	Active Parameter	Job Type	Kill Clear
<input checked="" type="checkbox"/>	ALC_DAILY_CLEANUP_JOB	ALC_DAILY_CLEANUP_PROCESS	0		ALLOC	ALLOC_BA...					HydICS	
<input checked="" type="checkbox"/>	ALC_DASHBOARD_REFRESH_JOB	ALC_DASHBOARD_REFRESH_PROCESS	0		ALLOC	ALLOC_BA...					EXEC	
<input checked="" type="checkbox"/>	ALC_PURGE_ALLOC_JOB	ALC_PURGE_ALLOC_PROCESS	0		ALLOC	ALLOC_BA...			PURGE_ALLOC		EXEC	
<input checked="" type="checkbox"/>	ALC_PURGE_WRK_JOB	ALC_PURGE_WRK_PROCESS	0		ALLOC	ALLOC_BA...			PURGE_WORKSHEET		EXEC	
<input checked="" type="checkbox"/>	ALC_SCHEDULER_JOB	ALC_SCHEDULER_PROCESS	0		ALLOC	ALLOC_BA...					EXEC	
<input checked="" type="checkbox"/>	ALC_SHRINK_SESSION_JOB	ALC_SHRINK_SESSION_PROCESS	0		ALLOC	ALLOC_BA...					EXEC	
<input checked="" type="checkbox"/>	ALC_SNAP_SHOT_ALLOC_IN_JOB	ALC_SNAP_SHOT_ALLOC_IN_PROCESS	0		ALLOC	ALLOC_BA...					EXEC	
<input checked="" type="checkbox"/>	ALC_SNAP_SHOT_ALLOC_OUT_J...	ALC_SNAP_SHOT_ALLOC_OUT_PRO...	0		ALLOC	ALLOC_BA...					EXEC	
<input checked="" type="checkbox"/>	ALC_SNAP_SHOT_CROSS_LINK...	ALC_SNAP_SHOT_CROSS_LINK_PRO...	0		ALLOC	ALLOC_BA...					EXEC	
<input checked="" type="checkbox"/>	ALC_SNAP_SHOT_CUST_ORD_JOB	ALC_SNAP_SHOT_CUST_ORD_PROCE...	0		ALLOC	ALLOC_BA...					EXEC	
<input checked="" type="checkbox"/>	ALC_SNAP_SHOT_ON_ORD_JOB	ALC_SNAP_SHOT_ON_ORD_PROCESS	0		ALLOC	ALLOC_BA...					EXEC	
<input checked="" type="checkbox"/>	ALC_SNAP_SHOT_SOH_JOB	ALC_SNAP_SHOT_SOH_PROCESS	0		ALLOC	ALLOC_BA...					EXEC	

Batch Administration Header

The Batch Administration header includes the following options:

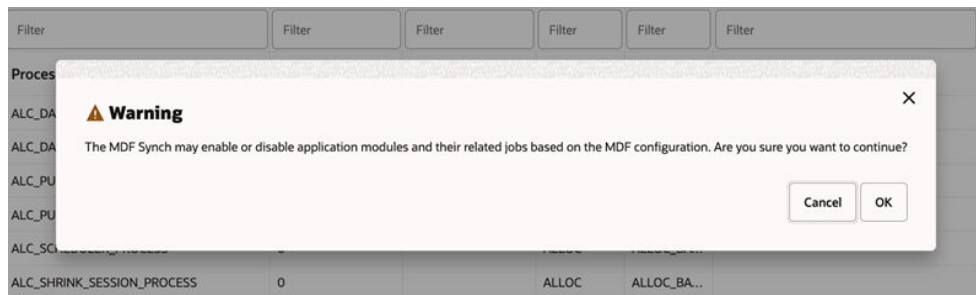
1. **Batch Tiles** - There is a batch tile for each software environment Process Orchestration and Management connects to. Select a tile to show the batch processes for that environment. See [Batch Tiles](#) for more information about these tiles.
2. **Cycle Tabs** - Displays the cycles for which batch information is to be maintained.

Select a cycle tab to see the batch details for that cycle. The following cycles are available:

- Nightly
 - Recurring
 - Standalone
3. **Sync with MDF** – MDF is the Module Definition Framework maintained in the Retail Home Customer Module Management module of Retail Home. Using the **Sync with MDF** button in POM will sync the modules defined in POM with those in Retail Home. Nightly jobs belonging to those modules are then enabled or disabled based on their state in Retail Home.

When **Sync with MDF** is clicked for the selected application schedule, the user is presented with a warning message advising that jobs may be enabled or disabled as a result of the synch action.

Figure 2-47 MDF Sync – Warning Message



After the sync is complete, a JSON file with the batch schedule summary is downloaded. This file contains the current and previous status of an application and module in MDF and POM after sync.

The following is a sample of that JSON file:

```
{
  "scheduleName": "RI", "synced": true, "enabledModules": [
    {
      "state": "MATCHED_MODULE",
      "mdfStatus": "ENABLED",
      "prevMdfStatusInPom": "ENABLED",
      "prevStatusInPom": "ENABLED",
      "publishToPom": true,
      "applicationName": "RI",
      "moduleName": "RMI_SI_ONORDER",
      "matchedModule": true
    },
    {
      "state": "MATCHED_MODULE",
      "mdfStatus": "ENABLED",
      "prevMdfStatusInPom": "ENABLED",
      "prevStatusInPom": "ENABLED",
      "publishToPom": true,
      "applicationName": "RI",

```

```

        "moduleName": "RMI_SI_WHOLESALE",
        "matchedModule": true
    },
    {
        "state": "MATCHED_MODULE",
        "mdfStatus": "ENABLED",
        "prevMdfStatusInPom": "DISABLED",
        "prevStatusInPom": "ENABLED",
        "publishToPom": true,
        "applicationName": "RI",
        "moduleName": "RCI_SI_SALES",
        "matchedModule": true
    }
]
}

```

Also, the status of the updated jobs is changed to either 'Loaded' or 'Disabled' based on the module activation/deactivation in Retail Home's Customer Modules Management.

4. **Export** - Use this button to export Schedule Configuration or Custom Entities for the selected schedule and cycle. Schedule configuration includes Scheduler tasks, throttle limit values, data retention values, notifications settings and (most importantly) which jobs are enabled or disabled. Custom Entities include schedule customizations that a user has performed on this Batch Administration screen such as addition of custom flows, processes and jobs.

When clicked, the user is presented with a dialog for selecting the data to export – **Schedule Configuration** or **Custom Entities**.

If 'Schedule Configuration' is selected, then the type of file to export (Excel or JSON) also has to be selected.

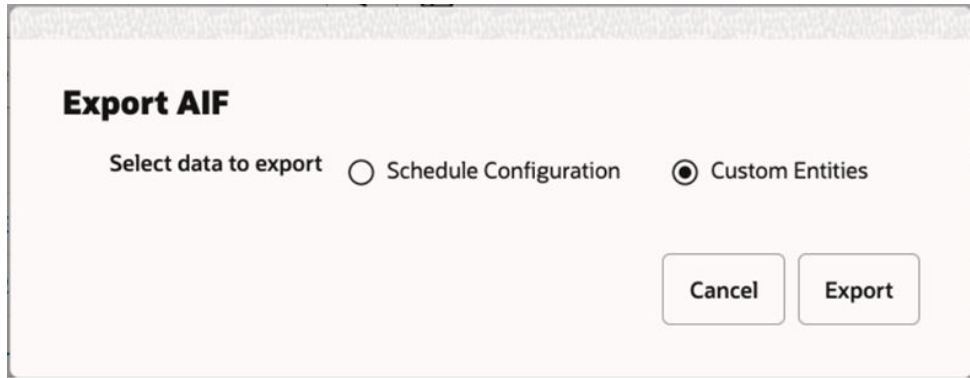
Export AIF

Select data to export Schedule Configuration Custom Entities

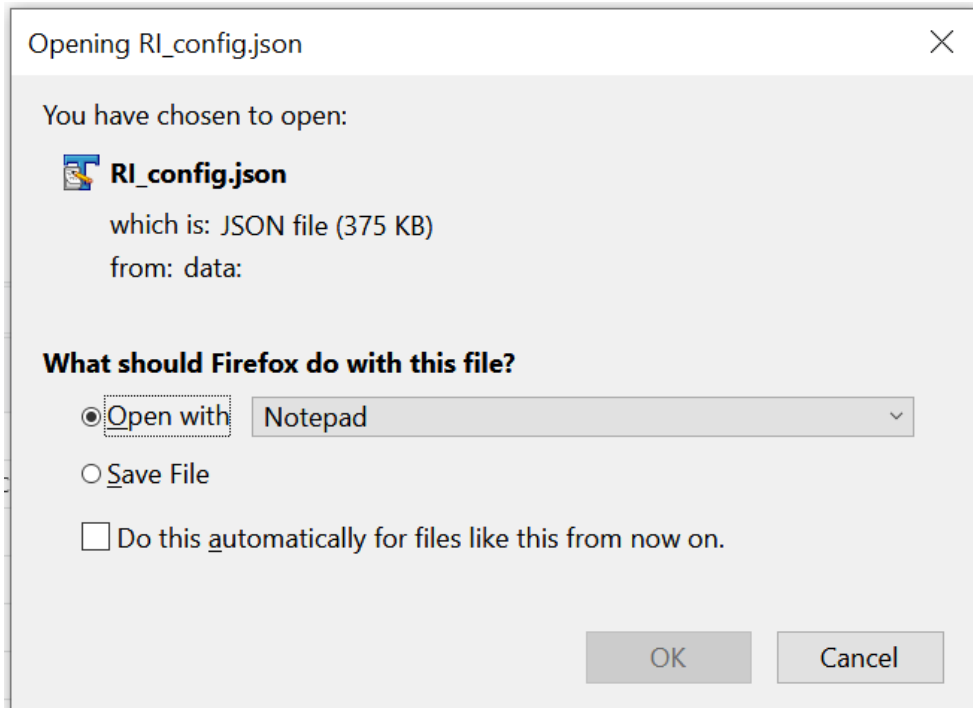
Export As .xls .json

Cancel Export

Custom Entities can only be exported as JSON.



Depending on the user's browser setting, the file is either saved in the default local file system directory or a file save/open dialog is presented first.



If the export is done for the purpose of applying the same configurations on another environment (Lift & Shift), the user is recommended to export to a JSON file. This file is then used in the Import Config function (explained below) to import the configurations into another environment.

The user has the option to manipulate the exported file before importing back into the same environment or a different one. In that case an export to an Excel file is more suitable for ease of manipulation. Caution needs to be taken when manipulating the content of the exported file, especially for maintaining proper data format.

Refer to the “Export/Import Schedule Configuration” chapter of the *Process Orchestration and Monitoring Implementation Guide* for details on applying changes to the exported spreadsheet before importing it back in.

5. **Import** - Use this button to import Schedule Configuration or Custom Entities for the selected schedule and cycle. When clicked, the user is presented with a dialog to select the desired type of data to import – **Schedule Configuration** or **Custom Entities**. See [Export](#) above for a brief explanation of each.

Import AIF

Warning
Importing a schedule configuration will alter the current schedule's configuration including enabling or disabling jobs. Are you sure you want to continue?

Select data to import

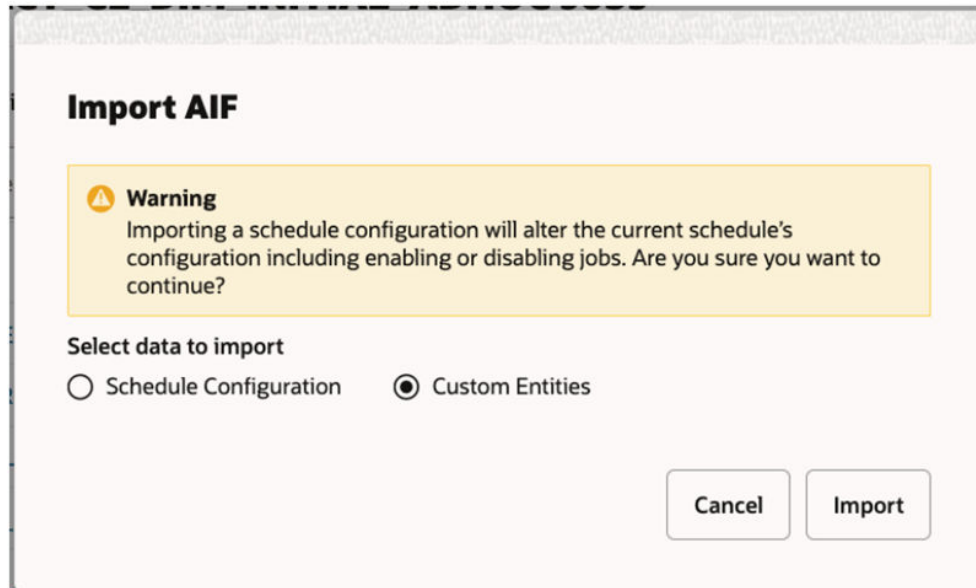
Schedule Configuration Custom Entities

Import Scheduler Configuration

Import Jobs Configuration

Import Notifications Configuration


If the **Schedule Configuration** import is selected, the user can select to import Scheduler tasks configuration and/or Jobs configuration and/or Notifications configuration. The jobs configuration includes such settings as throttle values, data retention values, enabled/disabled setting and Job Start/Completion notifications. The Scheduler tasks are those directives for the POM Scheduler to run the different batch cycles at specified times. The Notifications configuration includes e-mail addresses and retention periods associated with the different notification types.





The user can also select to import **Custom Entities** and provide the JSON file containing the custom entities' data.

Once the import type is selected and the **Import** button is clicked, the user is presented with a file selector dialog (not shown). User can then choose to import a JSON or an Excel file.

6. When a schedule is being upgraded using the Schedule Maintenance screen or when the schedule upgrade has failed or when a schedule is being synced, the user is prevented from most activities on the Batch Monitoring and on the Batch Administration screen.

 Some features are disabled while a schedule is being imported

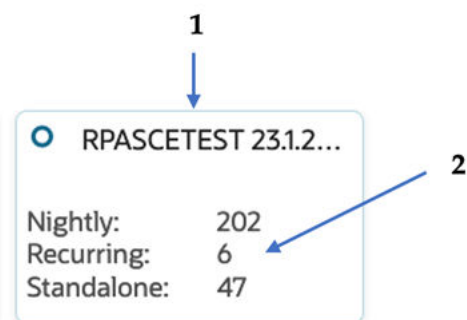
 Some features are disabled while a schedule is in a failed state

 Some features are disabled while a schedule is being synced

Batch Tiles

Each tile displays the following information:

Figure 2-48 Batch Tile



- 1. Schedule Name and Version** - Displays the abbreviation of the application or application group and the software version. The display schedule name can alternatively be displayed here instead of the default schedule name. The display schedule name can be configured on the **Schedule** tab of the Batch Schedule spreadsheet
- 2. Cycles and Statuses** - Displays the number of batch jobs for nightly / recurring cycle and number of ad hoc flows / processes for standalone cycle.

Batch List

The information in the batch list depends upon the cycle chosen:



- [Nightly](#)
- [Recurring](#)
- [Standalone](#)

Actions Menu and Icons

Actions Menu and Icons

See [Action Menu and Icons](#) for common actions that can be performed through the Action menu and the icons. You can also perform the following actions:

Table 2-2 Batch Jobs - Actions Menu/Icons and Description

Actions Menu/Icons	Description
Edit and Edit icon 	Select an item in the table, then select Actions > Edit or the edit icon  to edit the item.
Enable All	Use the Actions > Enable All or the Enable All button to put the process on hold.
Disable All	Use the Actions > Disable All or the Disable All button to skip the process.

View Menu

See [View Menu](#) for information about the options in the View menu.

View Flow Diagram

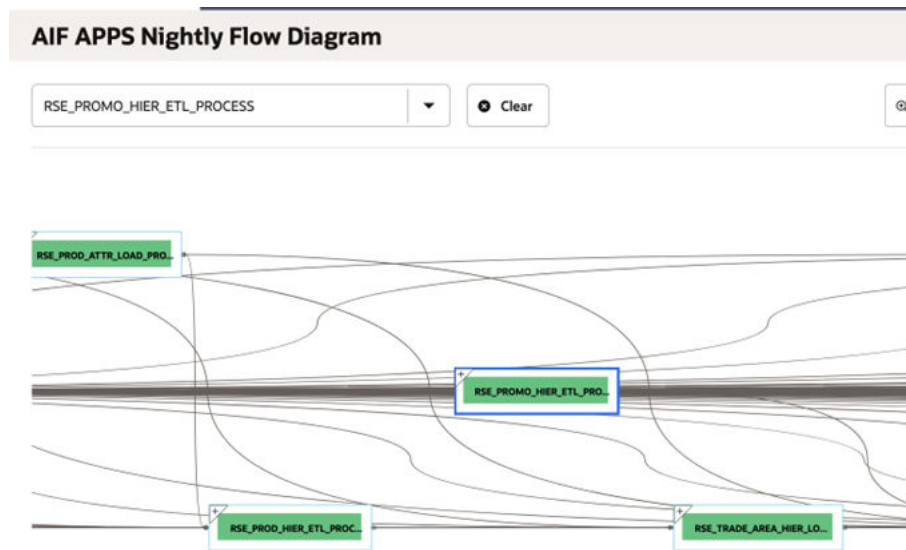
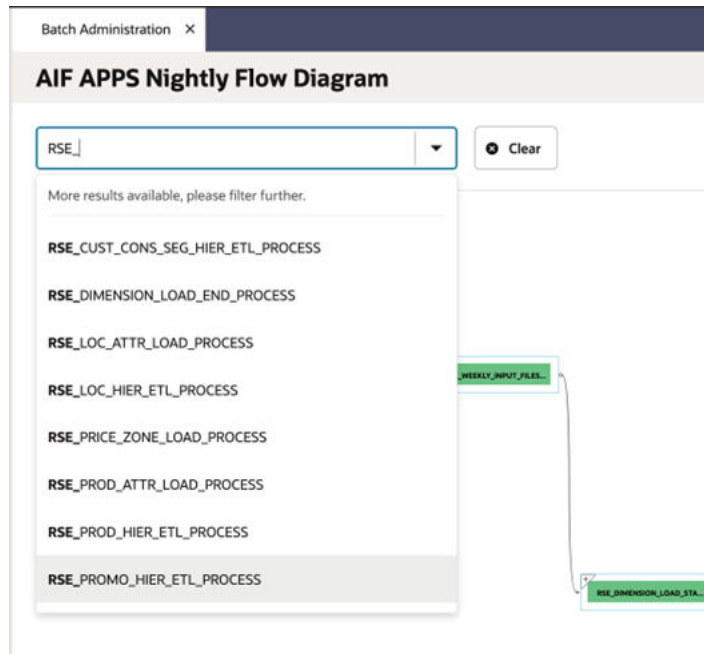
When clicked, the **View Flow Diagram** button displays a visual representation of a flow. It shows a flow diagram of the processes in a flow and their dependencies as links. This is applicable for Nightly, Recurring and Standalone cycles. The user can then click on a particular Process in the diagram to see the list of its jobs in the sequential order of execution.

Figure 2-49 Flow Diagram



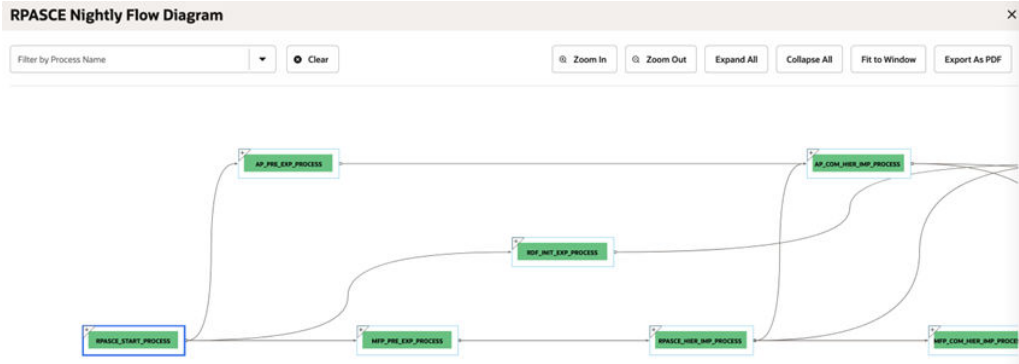
Filter by Process Name

When filtered by the Process Name, the flow Diagram displays and highlights the Process Name in blue.



Zoom In

Zoom in the flow diagram to get a larger view of a section of the flow.

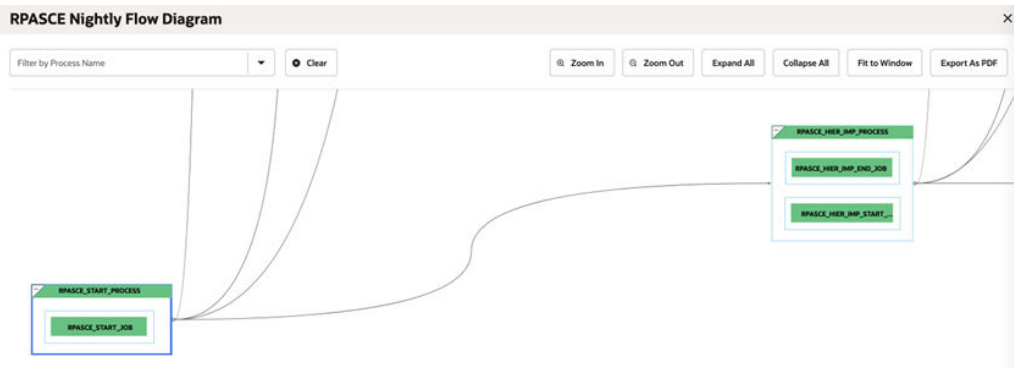


Zoom Out

Zoom out the flow diagram to view more processes.

Expand All

The **Expand All** button expands all the processes to get a view of their jobs. Individual processes also can be expanded by clicking on the **+** sign in the left top corner of each process block.



Collapse All

The **Collapse All** button collapses all processes, hiding their jobs.

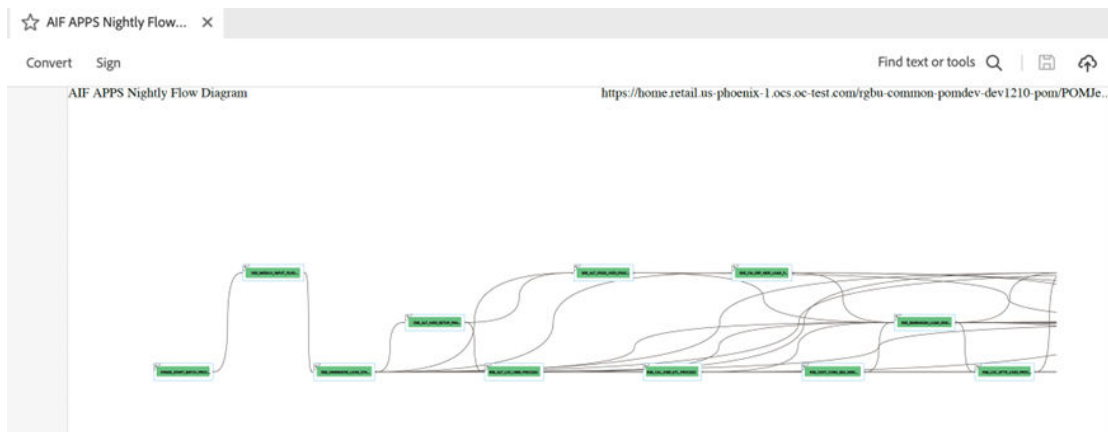
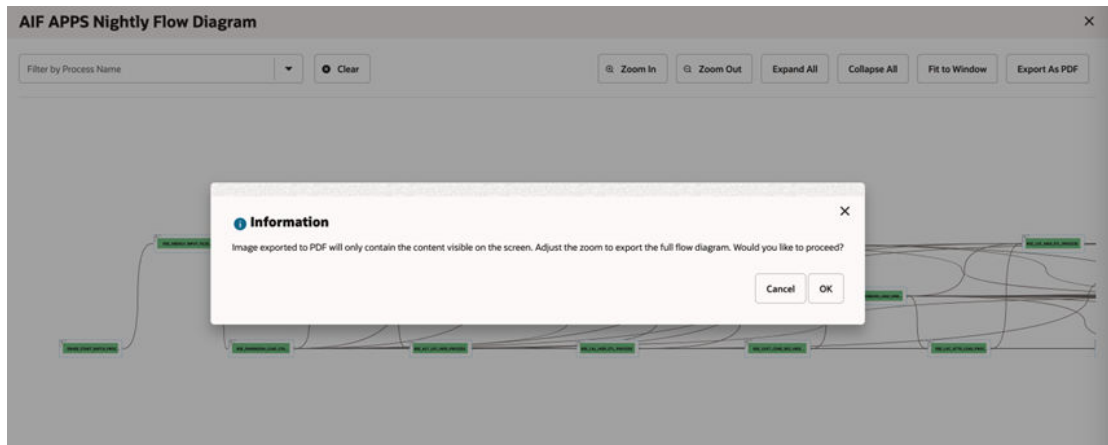
Fit to Window

Fit to Window fits the complete Flow Diagram in the browser window.



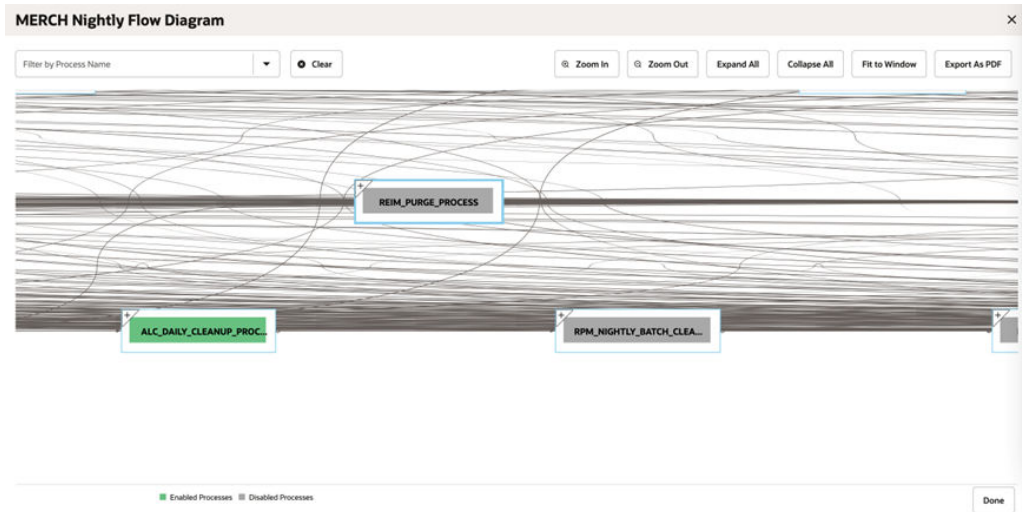
Export as PDF

Export as PDF exports the visible section of the screen to PDF.



Enabled / Disabled Process

Enabled and disabled processes are shaded in green and grey respectively. The labels can also be seen in the footer.



Linked Processes

When hovered over a link, the linked processes details are displayed.



Nightly

The nightly cycle displays the following information for each batch:

Figure 2-50 Nightly Batch List

Enabled	Job	Process Name	Base Priority	Active Priority	Application	Module	Base Phase	Active Phase
<input checked="" type="checkbox"/>	AP_BATCH_AGG_D_JOB	AP_BATCH_AGG_PROCESS	0		AP	AP_Daily		
<input checked="" type="checkbox"/>	AP_BATCH_AGG_END_JOB	AP_BATCH_AGG_PROCESS	0		AP	AP_Daily		
<input checked="" type="checkbox"/>	AP_BATCH_AGG_START_JOB	AP_BATCH_AGG_PROCESS	0		AP	AP_Daily		
<input checked="" type="checkbox"/>	AP_BATCH_AGG_W_JOB	AP_BATCH_AGG_PROCESS	0		AP	AP_Weekly		
<input checked="" type="checkbox"/>	AP_COM_DATA_IMP_END_JOB	AP_COM_DATA_IMP_PROCESS	0		AP	AP_Daily		
<input checked="" type="checkbox"/>	AP_COM_DATA_IMP_OBS_D_JOB	AP_COM_DATA_IMP_PROCESS	0		AP	AP_Daily		
<input checked="" type="checkbox"/>	AP_COM_DATA_IMP_OBS_W_JOB	AP_COM_DATA_IMP_PROCESS	0		AP	AP_Weekly		

- Enabled
- Job - Click the Job to open the batch in the [Batch Job Details](#) screen.
- Process Name
- Base Priority - An optional number between 1 and 10 (10 being highest priority) assigned to a process-job combination. This number determines the execution priority for the job amongst concurrent job run requests in a limited throttled setting. The base priority is the value initially seeded from the spreadsheet for this process-job.
- Active Priority - The current priority (1-10) value once altered from the UI. This value if present supersedes the base priority.
- Application - A schedule may be made up of multiple applications. There needs to be at least one application.
- Module - An application may be made up of multiple modules. Modules within an application are optional.
- Base Phase - An optional alphanumeric phase assigned to a process-job for grouping of jobs in the Nightly cycle. This is used for reporting purposes only. The Nightly Summary Report will then report total run time and elapsed time by Phase. The base phase is the value initially seeded from the spreadsheet for this process-job.
- Active Phase - The current phase value once altered from the UI. This value, if present, supersedes the base phase.
- Base Parameter - A job may be run with a list of input parameters. This column always shows the original list of parameters.
- Active Parameter - This column shows the customized list of parameters.
- Job Type - A Job Type is an attribute of a Job in POM and signifies the kind of Job that is run. POM has the following pre-built Job types. Other custom job type can be used that are built using the Job Type feature of the System Configuration screen.
 - EXEC - For all shell-script based jobs
 - RI - DIS-based jobs for the RI schedule
 - RASE - DIS-based jobs for the RSP schedule

- BDI - BDI Jobs
- RPAS - RPAS-Web Service jobs for the RPAS schedule
- OB – OB-based jobs for the OB schedule
- OMS – OMS-based jobs for the OMS schedule
- RDS – RDS-based jobs
- Kill Cleanup Script - Name of a script that will be executed after the kill is performed. This is an optional field as not all jobs require cleanup after termination.
- External Status Update - Job status for which POM is to call a customer's URL. The URL is defined in the External Configuration section of the System Configuration screen. This column has the following possible values:
 - ALL - POM will make a call for this job's execution regardless of success or failure.
 - FAILED - POM will make a call only for if this job fails.
 - NONE - POM will not make a call.
- Notification At
 - Start of Job – Send notification of type JobStarted when the selected job starts.
 - Completion of Job - Send notification of type JobCompleted when the selected job completes successfully. Note that there is a separate notification of type Error that is sent when a job fails.
- Skip On Error - Skip this job if it fails.
- Threshold Run Time (Seconds) - Amount of time greater than which the job is deemed long running. If a Threshold Run Time is specified here, then a job is deemed long running if its current run time exceeds that value. Otherwise, if a Threshold Run Time is not specified, then the job is deemed long running when its current run time exceeds the Long Run Average Time Multiplier (defined on the Edit Settings popup of the System Configuration screen) times the average run time of that job. For example, if a job's average run time is 3 minutes, and the Long Run Average Time Multiplier is 3, then the job is considered long running if it has been running for at least 9 minutes. A notification is sent when a job is deemed long running.
- Notes
- Job Name
- Job Wrapper Name
- Days of the Week - Days of the week for which the job is to be run.

The user can select one or multiple batch job(s) and click the Edit icon to edit information for one or more batch jobs.

Figure 2-51 Edit Nightly Batch Window for One Job

Edit ALC_DAILY_CLEANUP_JOB

Job Type: EXEC

Enable Job: Disabled

Priority: 0

Phase: [Dropdown]

Parameters: [Text Area]

Kill Cleanup Script: [Text Area]

External Status Update: None

Notification At: Start of Job
 Completion of Job

Skip On Error: Disabled

Threshold Run Time (Sec): [Text Area]

Notes: [Text Area]

Days of the Week: Sunday
 Monday
 Tuesday
 Wednesday
 Thursday
 Friday
 Saturday

Cancel Ok

Figure 2-52 Edit Nightly Batch Window for Multiple Jobs

Edit Job(s)
Updating Job(s) AP_BATCH_AGG_D_JOB,AP_BATCH_AGG_END_JOB,AP_BATCH_AG...

Enabled [?]

Skip On Error

Priority [?]

Phase [?]

Notification At

Start of Job

Completion of Job

Threshold Run Time (Sec)

External Status Update

Days of the Week

Sunday

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

The following information can be updated for each batch from the Edit window:

- Job Type – Choose from following pre-built Job types:
 - EXEC - For all shell-script based jobs
 - RI - DIS-based jobs for the RI schedule
 - RASE - DIS-based jobs for the RSP schedule
 - BDI - BDI Jobs
 - RPAS - RPAS-Web Service jobs for the RPAS schedule
 - OB – OB-based jobs for the OB schedule
 - OMS – OMS-based jobs for the OMS schedule
 - RDS – RDS-based jobs

Other custom job type can be used that are built using the Job Type feature of the System Configuration screen.

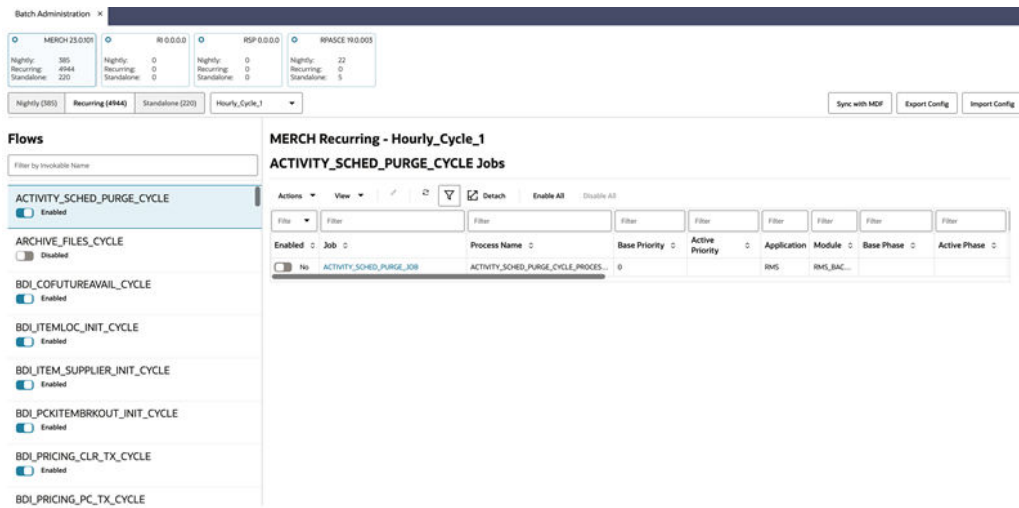
- Enable Job – Enable or disable a job
- Priority - The user can change the Priority of a job with a value from 1-10 (With 10 being the highest and 1 being the lowest and 0 as default value meaning no priority set). As long as the Priority is not modified on the UI, it can be overridden from the spreadsheet. However, once modified on the UI, the priority cannot be overridden from the spreadsheet, but only from the UI.
- Phase – The user can select a saved phase (if any) from the dropdown. Alternatively, the user can type in a new alphanumeric value.
- Parameters – Add or remove from the customized list of parameters, if allowed for that batch.
- Kill Cleanup Script - Name of a script that will be executed after a kill is performed.
- External Status Update - Job status for which POM is to call a customer's URL. The URL is defined in the External Configuration section of the System Configuration screen. This column has the following possible values:
 - ALL - POM will make a call for this job's execution regardless of success or failure.
 - FAILED - POM will make a call only for if this job fails.
 - NONE - POM will not make a call.
- Notification At
 - Start of Job – Send notification of type JobStarted when the selected job starts execution.
 - Completion of Job - Send notification of type JobCompleted when the selected job completes successfully. Note that there is a separate notification of type Error that is sent when a job fails.
- Skip On Error - Skip this job if it fails.
- Threshold Run Time (Seconds) - Amount of time greater than which the job is deemed long running. If a Threshold Run Time is specified here, then a job is deemed long running if its current run time exceeds that value. Otherwise, if a Threshold Run Time is not specified, then the job is deemed long running when its current run time exceeds the Long Run Average Time Multiplier (defined on the Edit Settings popup of the System Configuration screen) times the average run time of that job. For example, if a job's Threshold Run Time is 60 seconds, then the job is considered long running if it has been running for at least 60 seconds. A notification is sent when a job is deemed long running.
- Notes
- Days of the Week - Days of the week for which the job is to be run.

Recurring

The Recurring cycle includes an **Hourly Cycle** menu. Select an hour in this menu to choose the hour of the day during which the displayed jobs will run.

The recurring cycle includes the following information for each batch:

Figure 2-53 Recurring Batch List



- Flows - Select a flow in the Flows list to view all jobs for that flow. The following information is shown for each flow:
 - Flow Name
 - Enabled or Disabled
- Jobs - The Jobs list shows the following information for each job. The user can also update the job by selecting it and clicking on the Edit icon. Refer to the Nightly cycle above for an explanation of each field:
 - Enabled
 - Job - Click the Job to open the batch in the [Batch Job Details](#) screen.
 - Process Name
 - Base Priority
 - Active Priority
 - Application
 - Module
 - Base Phase
 - Active Phase
 - Parameters
 - Active Parameter
 - Job Type - Job Type of 'EXEC' Indicates that the job executable is shell script based. All other job types, such as 'BDI', 'RI', and so on, indicate that the job is service-based. Service-based job types require different configurations than shell-script based.
 - Kill Cleanup Script - Name of a script that will be executed after the kill is performed. This is an optional field as not all jobs require cleanup after termination.
 - External Status Update

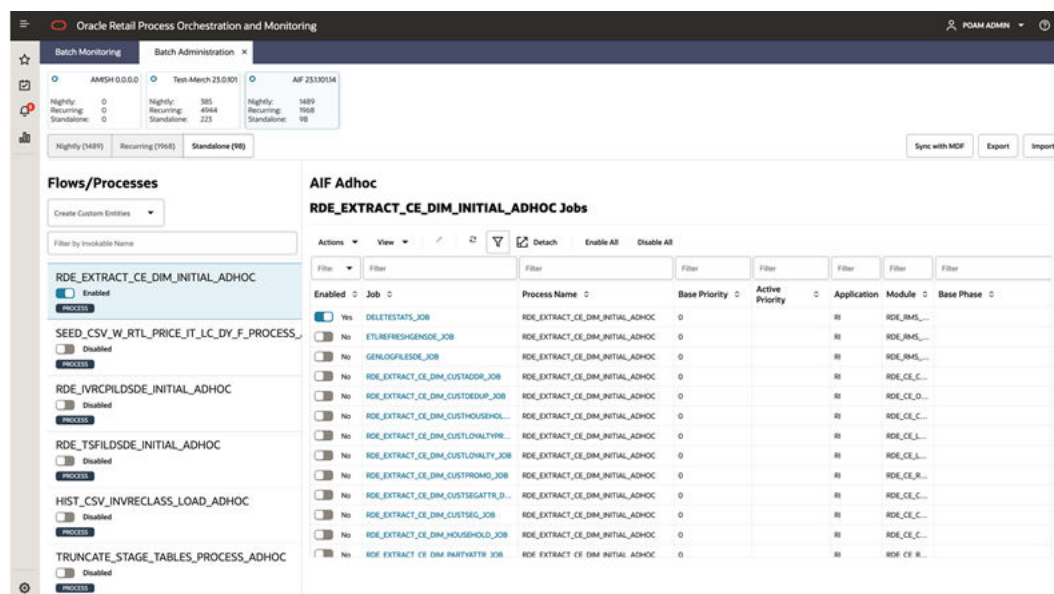
- Skip On Error
- Threshold Run Time (Seconds)
- Notes
- Job Name
- Job Wrapper Name
- Days of the Week

The user can select a batch and click the Edit icon to edit the batch. Refer to the [Nightly](#) cycle above for an explanation of each field in the Edit window.

Standalone

The standalone cycle includes the following information for each flow, process, and job:

Figure 2-54 Standalone Batch Sections



Left Pane of the Screen

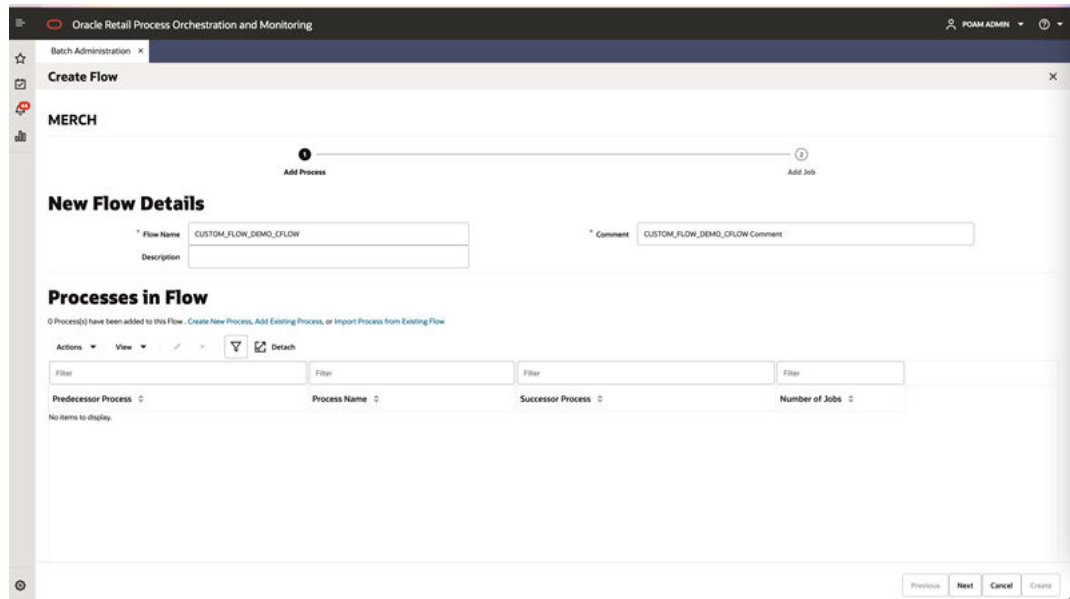
- Create Custom Entities - The following options are listed when clicked:
 - Create Flow
 - Create Process
- Filter by Invokable Name – Search for an invokable by entering a search term and clicking on Enter. An invokable can be a flow or a process that does not belong to a flow.
- Flows/Processes - The following information is shown for each flow/process:
 - Flow/Process Name
 - Enabled or Disabled
 - Flow/Process Label

Right Pane of Screen

- Jobs - Select an invocable (flow or process) from the left pane to view all jobs for that flow or process. The Jobs list shows the following information for each job. The user can also update the job by selecting it and clicking on the Edit icon. Refer to the [Nightly](#) cycle above for an explanation of each field:
 - Enabled
 - Job - Click the Job to open the batch in the [Batch Job Details](#) screen.
 - Process Name
 - Base Priority
 - Active Priority
 - Application
 - Module
 - Base Phase
 - Active Phase
 - Parameters
 - Active Parameter
 - Job Type - Job Type of 'EXEC' Indicates that the job executable is shell script based. All other job types, such as 'BDI', 'RI', and so on, indicate that the job is service-based. Service-based job types require different configurations than shell-script based.
 - Kill Cleanup Script - Name of a script that will be executed after the kill is performed. This is an optional field as not all jobs require cleanup after termination.
 - External Status Update
 - Skip On Error
 - Threshold Run Time (Seconds)
 - Notes
 - Job Name
 - Job Wrapper Name
 - Days of the Week

Create Custom Entities - Create Flow

The user can select Create Custom Entities and click on the **Create Flow** option to create a new flow and its associated process(es) and job(s).



The following information can be added to create a new flow:

- **New Flow Details**

- Flow Name – Name of the flow ending with `_CFLOW`
- Comment
- Description

- **Processes in Flow**

Processes can be added to the flow by either creating a new process or adding an existing process or importing processes from an existing flow.

1. Create New Process

Create Process

* Process Name

Description

* Application

Predecessor

This is the First process in the Flow

As this is the first process in the flow, the **Processes in Flow** field is populated with this process as shown below, marking it as the First and Last process.

Create Flow

MERCH

1 Add Process 2 Add Job

New Flow Details

* Flow Name: CUSTOM_FLOW_DEMO_CFLOW
 Description:
 * Comment: CUSTOM_FLOW_DEMO_CFLOW Comment

Processes in Flow

1 Process(s) have been added to this Flow. Create New Process, Add Existing Process, or Import Process from Existing Flow

Predecessor Process	Process Name	Successor Process	Number of Jobs
Start	CUSTOM_FLOW_DEMO_CPROCESS	Start	0

2. Add Existing Process

As we have already created the first process for the custom flow, the first process is the Predecessor for the next created process.

Add Existing Process

Select Process: CUSTOM_1_CPROCESS

Select Predecessor: CUSTOM_FLOW_DEMO_CPROCESS X

Cancel Ok

Create Flow

MERCH

1 Add Process 2 Add Job

New Flow Details

* Flow Name: CUSTOM_FLOW_DEMO_CFLOW
 Description:
 * Comment: CUSTOM_FLOW_DEMO_CFLOW Comment

Processes in Flow

2 Process(s) have been added to this Flow. Create New Process, Add Existing Process, or Import Process from Existing Flow

Predecessor Process	Process Name	Successor Process	Number of Jobs
Start	CUSTOM_FLOW_DEMO_CPROCESS	COPY_CUSTOM_1_CPROCESS	0
CUSTOM_FLOW_DEMO_CPROCESS	COPY_CUSTOM_1_CPROCESS	Start	1

3. Import Process from Existing Flow – Select All

Import Process from Flow

Select Flow

Option Select All Import Selective Process

All processes from the selected flow are added.

New Flow Details

* Flow Name * Comment

Description

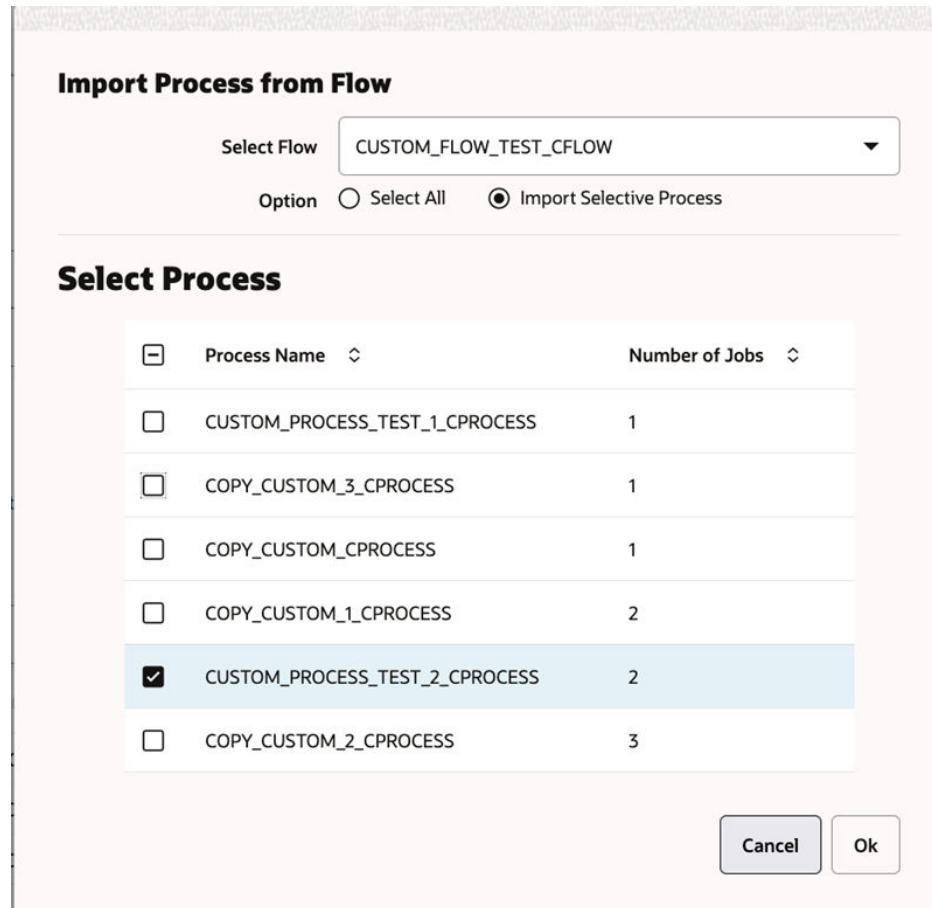
Processes in Flow

7 Process(s) have been added to this Flow. [Create New Process](#), [Add Existing Process](#), or [Import Process from Existing Flow](#)

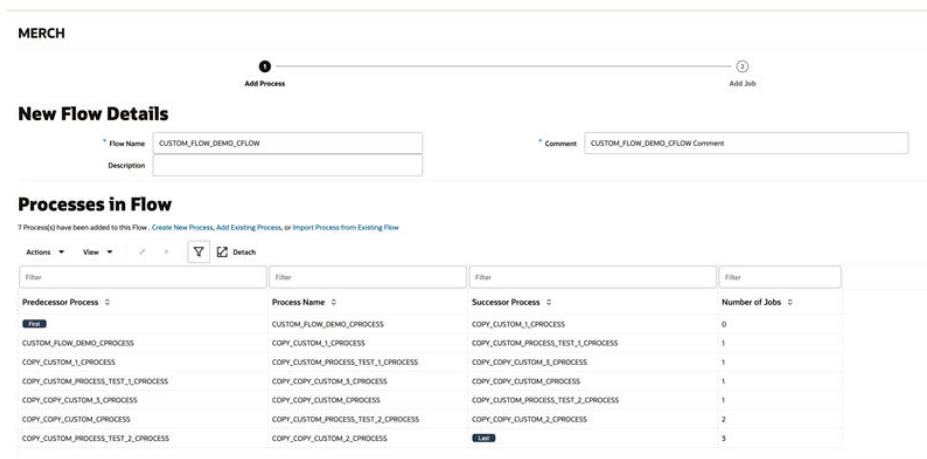
Actions View

Filter	Filter	Filter	Filter
Predecessor Process	Process Name	Successor Process	Number of Jobs
Flow	CUSTOM_FLOW_DEMO_CPROCESS	COPY_CUSTOM_1_CPROCESS	0
CUSTOM_FLOW_DEMO_CPROCESS	COPY_CUSTOM_1_CPROCESS	COPY_CUSTOM_PROCESS_TEST_1_CPROCESS	1
COPY_CUSTOM_1_CPROCESS	COPY_CUSTOM_PROCESS_TEST_1_CPROCESS	COPY_COPY_CUSTOM_3_CPROCESS	1
COPY_CUSTOM_PROCESS_TEST_1_CPROCESS	COPY_COPY_CUSTOM_3_CPROCESS	COPY_COPY_CUSTOM_CPROCESS	1
COPY_COPY_CUSTOM_3_CPROCESS	COPY_COPY_CUSTOM_CPROCESS	COPY_CUSTOM_PROCESS_TEST_2_CPROCESS	1
COPY_COPY_CUSTOM_CPROCESS	COPY_CUSTOM_PROCESS_TEST_2_CPROCESS	COPY_COPY_CUSTOM_2_CPROCESS	2
COPY_CUSTOM_PROCESS_TEST_2_CPROCESS	COPY_COPY_CUSTOM_2_CPROCESS	Flow	3

4. Import Process from Existing Flow – Import Selective Process



Only the selected processes from the flow are added.



After adding the desired processes, click the **Next** button to add job(s) to the processes. Every process in the custom flow should have at least one job.

- **Jobs in Process**

New or existing jobs can be added to the selected Process by either creating a new job or adding an existing job or importing a job from an existing process.

1. Create New Job

– **Job Name**

Uniquely identifies a job. The Job Name should be in upper case with no spaces. Use an underscore if needed. It should end with `_CJOB`. If the same job is part of multiple processes (for example, different parameters are passed), define a separate job for it.

– **Description**

Short description of the batch job. There should be no special characters.

– **Job Type**

- * Can be one of the following values: EXEC, RI, RASE, BDI, RPAS, OMS, OB, or RDS.
- * Can also be a custom job type defined either in the **JobType** tab of the Batch Schedule spreadsheet or built using the **Job Type** feature on the System Configuration screen.

– **Application**

This holds the application that the batch job belongs to. It should be a valid application defined in the **Application** tab of the Batch Schedule spreadsheet.

– **Skip On Error**

If the switch is on, it indicates that the job should be skipped if it fails, and the batch schedule should continue to run. Otherwise, the batch schedule is stopped.

– **Fixed Parameter**

If the switch is on, it indicates that the parameter value can be changed on the Batch Administration screen. The switch should be on if the parameter cannot have a default value, or if the parameter can have different values.

– **Parameters**

- * This holds the entire parameter value to be passed into a shell-script type job. This field is case sensitive.
- * For parameters that can have multiple values (for example, purge days parameter), provide a default value so that the batch can still be executed.
- * A placeholder parameter `#JobCtxt.businessDate` can be used for jobs that require a POM business date parameter (DDMMYYYY format).

– **Kill Cleanup Script**

Absolute path of the cleanup script to be run after killing a shell script (EXEC) type job from the POM UI. It can include arguments as well along with the script.

For example: /u01/retail/app/batch/app_cleanup_script.sh

– **Days of the Week**

Days of the week for which the job is to be run if scheduled. Select all if job is to be run every day of the week.

For example, if a job is part of a process that runs every day and Days of the Week is set to MONDAY and FRIDAY, this job will only run on those two days while the rest of the jobs may run every day.

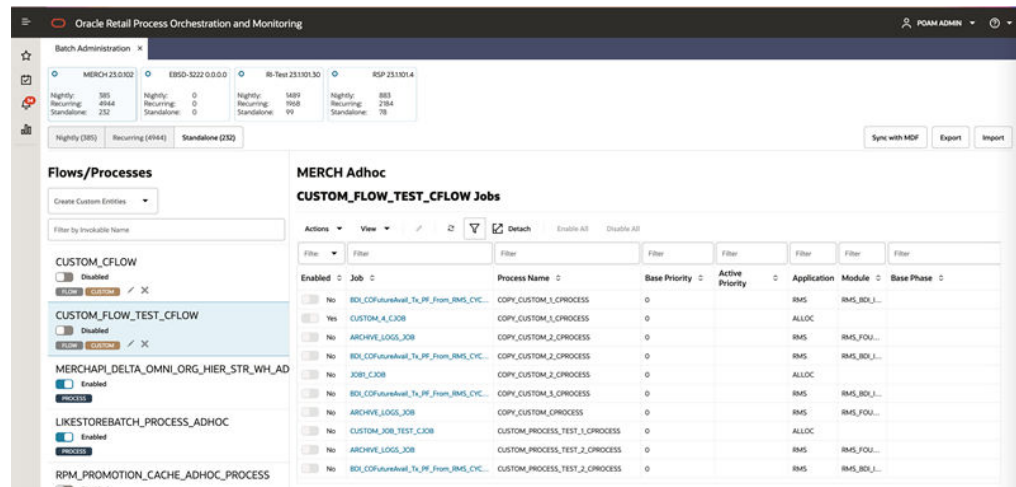
– **Threshold Run Time (Sec)**

Amount of time greater than which the job is deemed long running. If a **Threshold Run Time** is specified here, then a job is deemed long running if its current run time exceeds that value. Otherwise, if a Threshold Run Time is not specified, then the job is deemed long running when its current run time exceeds the Long Run Average Time Multiplier (defined on the Edit Settings popup of the System Configuration screen) times the average run time of that job. For example, if a job's average run time is 3 minutes, and the Long Run Average Time Multiplier is 3, then the job is considered long running if it has been running for at least 9 minutes. A notification is sent when a job is deemed long running.

2. Add Existing Job

3. Import Job from Existing Process

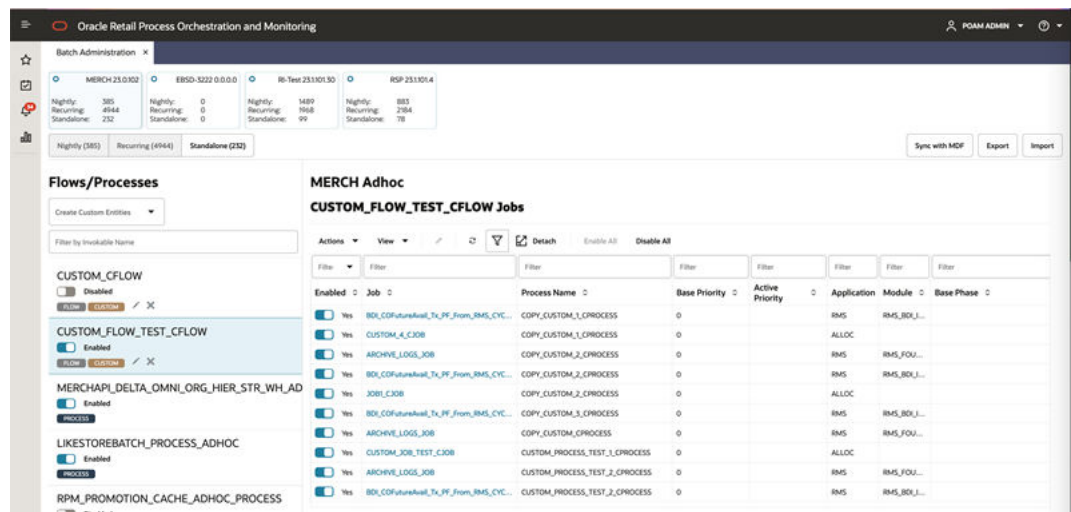
After adding the desired job(s), click the **Create** button in the footer to create the custom flow with its associated process and jobs.



The custom flow and its jobs are created and displayed in the **Standalone** tab. A **Custom** tag is also seen along with the flow name in the left pane to indicate that it was a custom, user-created flow, as opposed to being seeded from the batch schedule spreadsheet.

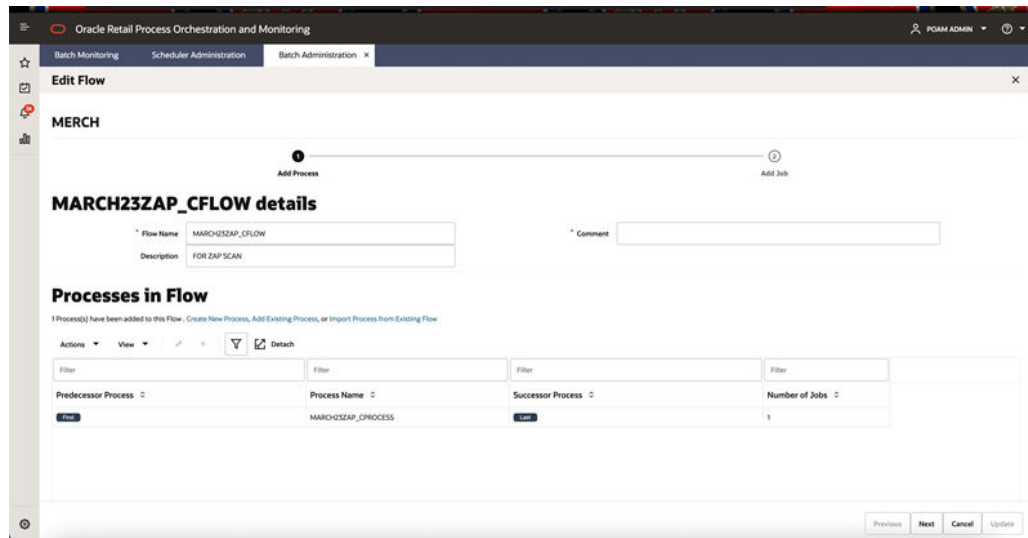
Enable the Custom Flow

The custom flow is disabled by default and can be enabled by clicking the enable/disable switch. Enabling the Custom Flow also enables its batch jobs.



Edit the Custom Flow

The Custom Flow can be edited by clicking on the **Edit** icon below the flow name. The user can then edit the flow details, add/edit/delete processes and add/edit/delete jobs.

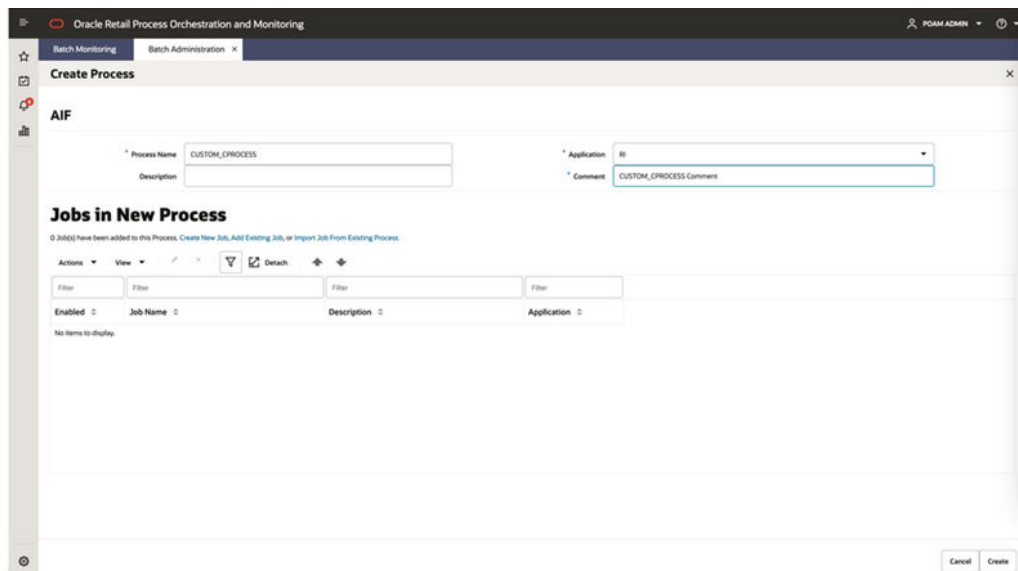


Delete the Custom Flow

The Custom Flow can be deleted by clicking the **Delete** icon below the flow name. For audit purposes, a comment is required when deleting a custom flow.

Create Custom Entities - Create Process

The user can select **Create Custom Entities** and click the **Create Process** option to create a new process and its associated job(s).



The following information can be added to create a new process:

- **New Process Details**
 - Process Name – Name of the process ending with `_CPROCESS`.

- Comment
- Description
- **Jobs in New Process**

New or existing jobs can be added to the selected Process by either creating a new job or adding an existing job or importing a job from an existing process.

1. Create New Job

– **Job Name**

Uniquely identifies a job. The Job Name should be in upper case with no spaces. Use an underscore if needed. It should end with `_CJOB`. If the same job is part of multiple processes (for example, different parameters are passed), define a separate job for it.

– **Description**

Short description of the batch job. There should be no special characters.

– **Job Type**

- * Can be one of the following values: EXEC, RI, RASE, BDI, RPAS, OMS, OB, and RDS.
- * Can also be a custom job type defined either in the **JobType** tab of the Batch Schedule spreadsheet or built using the **Job Type** feature of the System Configuration screen.

– **Application**

This holds the application that the batch job belongs to. It should be a valid application defined in the **Application** tab of the Batch Schedule spreadsheet.

– **Skip On Error**

If the switch is on, it indicates that the job should be skipped if it fails, and the batch schedule should continue to run. Otherwise, the batch schedule is stopped.

– **Fixed Parameter**

If the switch is on, it indicates if the parameter value can be changed on the Batch Administration screen. The switch should be on if the parameter cannot have a default value, or if the parameter can have different values.

– **Parameters**

- * This holds the entire parameter value to be passed into a shell script type job. This field is case sensitive.
- * For parameters that can have multiple values (for example, purge days parameter), provide a default value so that the batch can still be executed.
- * Placeholder parameter `#JobCtxt.businessDate` can be used for jobs that require a POM business date parameter (DDMMYYYY format).

– Kill Cleanup Script

Absolute path of the cleanup script to be run after killing a shell script (EXEC) type job from the POM UI. It can include arguments as well along with the script.

For example: `/u01/retail/app/batch/app_cleanup_script.sh`

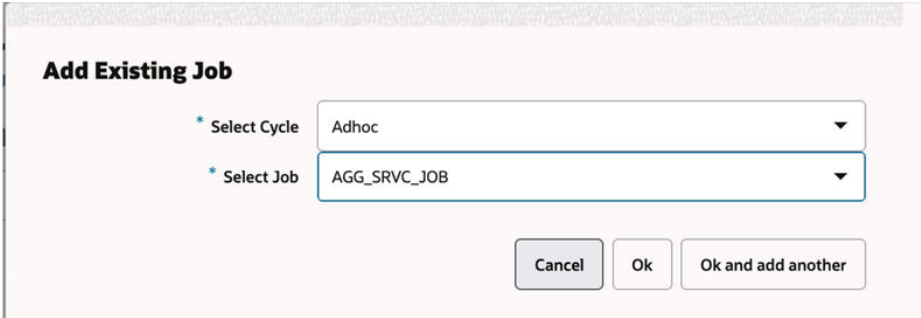
– Days of the Week

Days of the week for which the job is to be run if scheduled. Select all if job is to be run every day of the week. For example if a job is part of a process that runs every day and Days of the Week is set to MONDAY and FRIDAY, this job will only run on those two days while the rest of the jobs may run every day.

– Threshold Run Time (Sec)

Amount of time greater than which the job is deemed long running. If a Threshold Run Time is specified here, then a job is deemed long running if its current run time exceeds that value. Otherwise, if a Threshold Run Time is not specified, then the job is deemed long running when its current run time exceeds the Long Run Average Time Multiplier (defined on the Edit Settings popup of the System Configuration screen) times the average run time of that job. For example, if a job's average run time is 3 minutes, and the Long Run Average Time Multiplier is 3, then the job is considered long running if it has been running for at least 9 minutes. A notification is sent when a job is deemed long running.

2. Add Existing Job



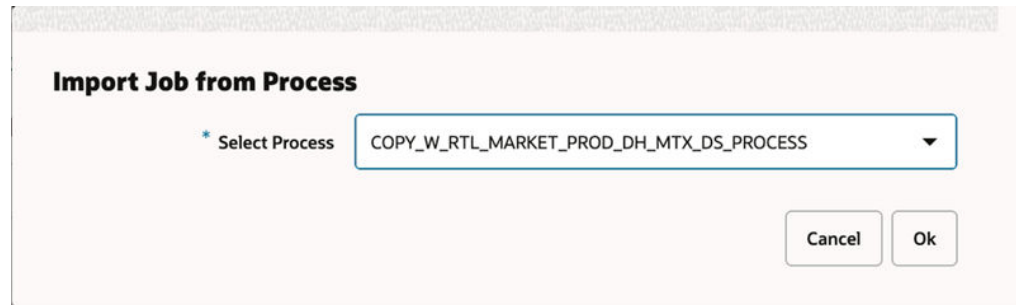
Add Existing Job

* Select Cycle Adhoc

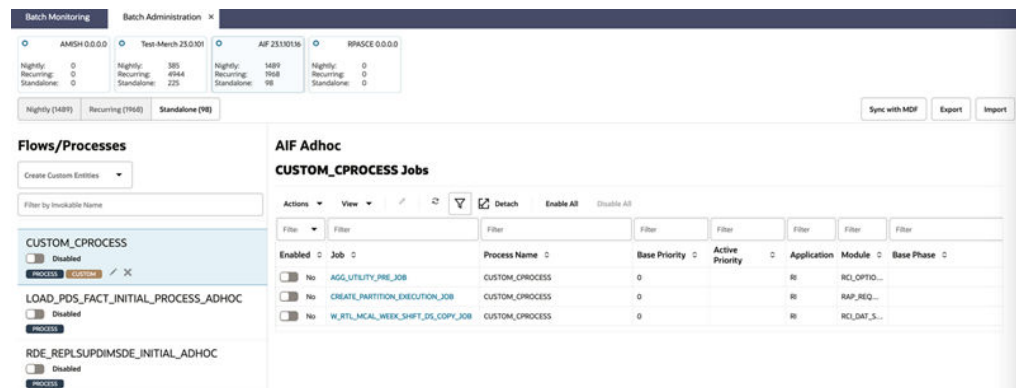
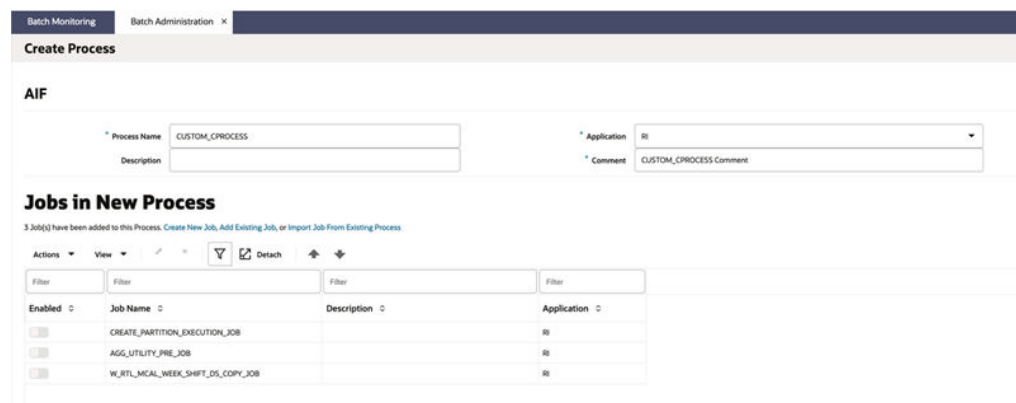
* Select Job AGG_SRVC_JOB

Cancel Ok Ok and add another

3. Import Job from Existing Process



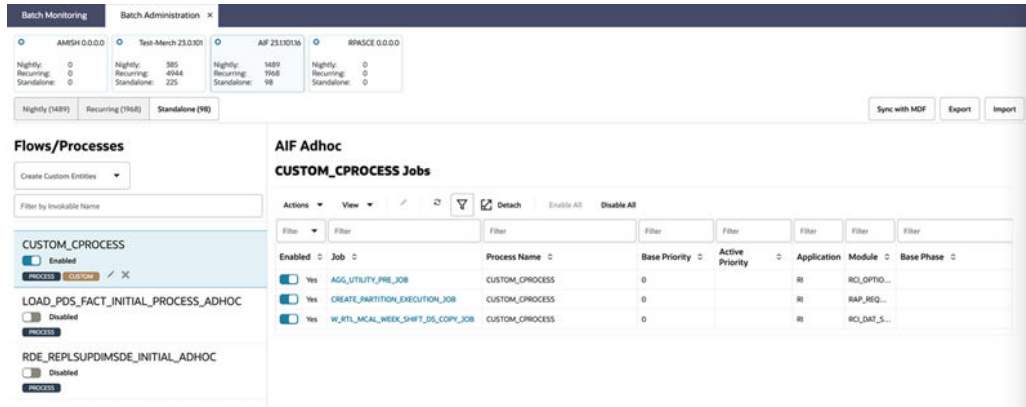
After creating and adding jobs for the new process, click the **Create** button in the footer to create the custom process with its associated jobs.



The custom process and its jobs are created and displayed in the **Standalone** tab. A **CUSTOM** tag is also seen along with the process name to indicate that it was a custom, user-created process.

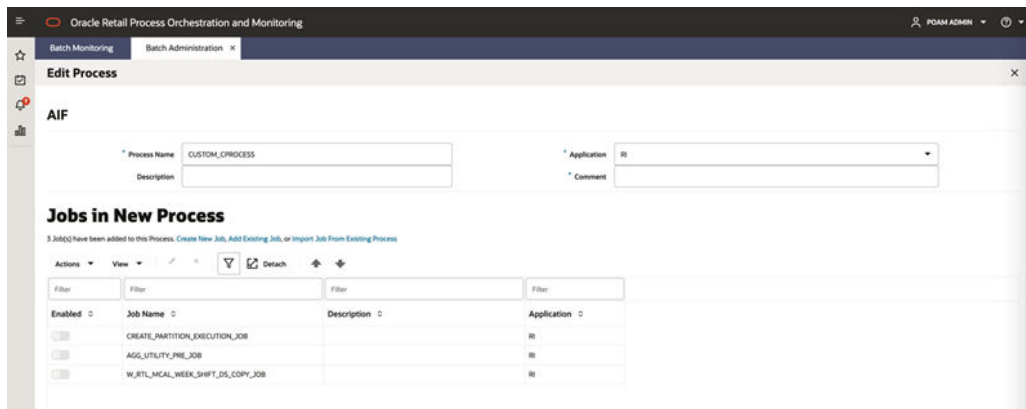
Enable the Custom Process

The custom process is disabled by default and can be enabled by clicking the enable/disable switch.



Edit the Custom Process

The Custom Process can be edited by clicking the **Edit** icon below the flow name to edit the process details and add/edit/delete jobs.



Delete the Custom Process

The Custom Process can be deleted by clicking the **Delete** icon below the flow name. For audit purposes, a comment is required when deleting a custom process.

Batch Job Details

The Batch Job Details screen allows maintenance of various types of dependencies associated with a batch job.

Figure 2-55 Batch Job Details

Batch Administration x

Batch Job Details

Enabled	Job	Process
<input checked="" type="checkbox"/> Yes	FACT_OPEN_CLOSE_MILE_MARKER_JOB	FACT_OPEN_CLOSE_MILE_MARKER_PROCESS

Post Dependencies

Enabled	Job	Process
<input checked="" type="checkbox"/> Yes	ZIP_FILE_UNLOAD_JOB	CONTROL_FILE_VALIDATION_PROCESS

External Dependencies

Enabled	Job	
<input checked="" type="checkbox"/> Yes	External_job	<input type="button" value="Remove"/>

Inter-Schedule Dependencies

Enabled	Job	Process	Schedule	
<input checked="" type="checkbox"/> Yes	AdhocFlow_Process_solo_job_1	AdhocFlow_Process_solo	RPASCE	<input type="button" value="Remove"/>

Schedule Links

Enabled	Job	Process	Schedule	
<input checked="" type="checkbox"/> Yes	AdhocFlow_Process_solo_job_1	AdhocFlow_Process_solo	RPASCE	<input type="button" value="Remove"/>

Pre Dependencies

This section displays the following information about a job's pre-dependencies:

- Enabled - Switch to enable or disable the pre-dependency.
- Job
- Process

Post Dependencies

This section displays the following information about a job's post-dependencies:

- Enabled - Switch to enable or disable the post-dependency.
- Job
- Process

External Dependencies

This section allows for the maintenance of the following information about a job's external dependencies. An external dependency is normally a process internal to a customer's system.

- Enabled - Switch to enable or disable the external dependency.
- Job
- A **Remove** button is available to delete the external dependency.

Inter-Schedule Dependencies

This section allows for the maintenance of the following information about a job's inter-schedule dependencies. An inter-schedule dependency is a dependency for the current job on a job belonging to another batch schedule. The job for which this Jobs Detail screen is shown will wait for the job entered here.

- Enabled - Switch to enable or disable the inter-schedule dependency.
- Job - Name of job belonging to the other schedule.
- Process - Name of process containing Job.
- Schedule - Name of other schedule containing the dependency.
- A **Remove** button is available to delete the inter-schedule dependency.

Schedule Links

This section allows for the maintenance of the following information about schedule links for a job. Schedule links are a way to link schedules together where the completion of the job in the current schedule causes the start of execution of the dependent schedule.

- Enabled - Switch to enable or disable the schedule link.
- Job - Name of job belonging to the dependent schedule.
- Process - Name of process containing Job.
- Schedule - Name of the dependent schedule.
- A **Remove** button is available to delete the schedule link.

Scheduler Administration

The Scheduler Administration screen displays information about the different cycles' Scheduler tasks and allows for their administration.

When an application's batch schedule is initially seeded in POM, Scheduler tasks are created for each of the different Nightly, Recurring, and Standalone cycles. An administrator would then access the Scheduler Administration screen to configure the execution schedule for all available tasks according to customer's needs.

 **Note:**

Scheduler tasks are not automatically seeded for Adhoc Custom Entities that are created using the **Create Custom Entities** button on the Batch Administration screen. Scheduler tasks for these custom entities need to be manually added using this Scheduler Administration screen.

A scheduler task can be configured in one of many frequencies as depicted in the table and Edit task screenshot below:

Frequency	Description
Daily	Run daily at the specified time
Once	Run once at a specified date and time
Weekly	Run every <day of a week> at the specified time
Monthly (By Date)	Run on a particular day of each month at a specified time; for example, on the 15th of each month at 10pm
Monthly (First Day of the Month)	Runs at the beginning of every month
Monthly (Last Day of the month)	Runs at the end of every month
Monthly (By Weekday)	Runs on the First/Second/Third..../Last weekday of the month. For example, Second Wednesday of the month

The Standalone (or Adhoc) cycle support a recurrence within each of the above frequencies.

Recurrence	Description
Single	Will run just once at the time defined on the frequency
Multiple	Will run multiple times at regular intervals starting at the time defined on the frequency

The following are restrictions enforced on scheduler task frequencies:

- Recurring cycle supports only Daily frequency. It does not support the `MULTIPLE` recurrence.
- Nightly cycle supports only Daily and Weekly frequencies. It does not support the `MULTIPLE` recurrence.
- When Nightly is setup with Weekly frequency, it needs to be setup for every day of the week. This is due to the fact that when Nightly completes for a certain day, it sets up the schedule for the next business day which cannot be skipped.

Figure 2-56 Edit Scheduler Task Window

It is important to note that POM considers the POM business date, not the system date, to identify the day/ date, while scheduling tasks.

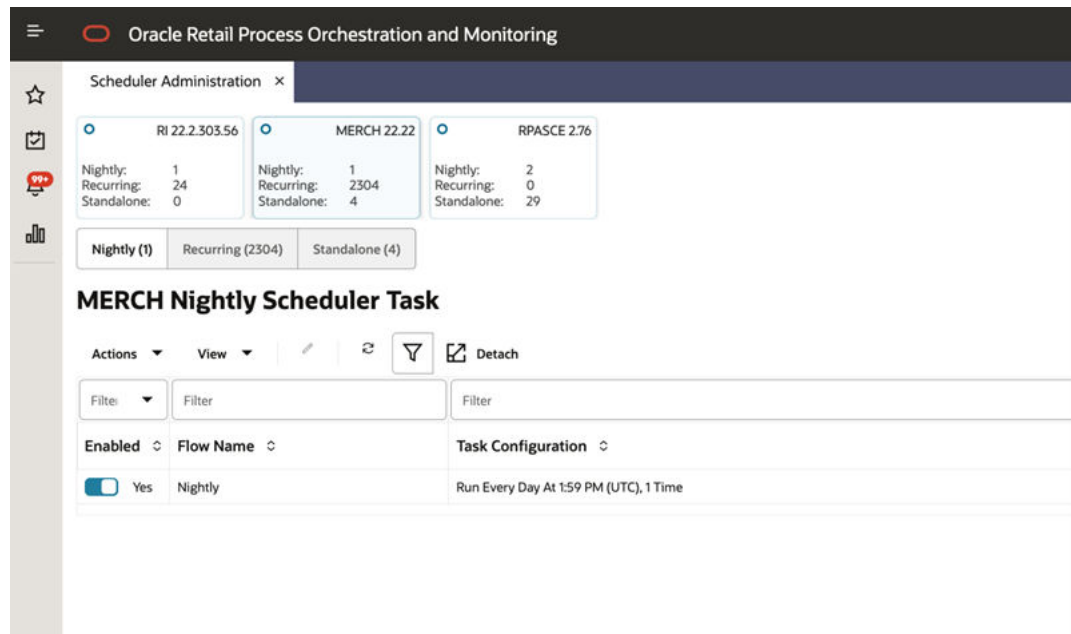
Nightly Scheduler Task Administration

On the Scheduler Administration screen, the user selects a schedule tile at the top of the screen and the Nightly tab right below the tile area. The Nightly cycle's Scheduler task is shown in the tasks table of the figure below.

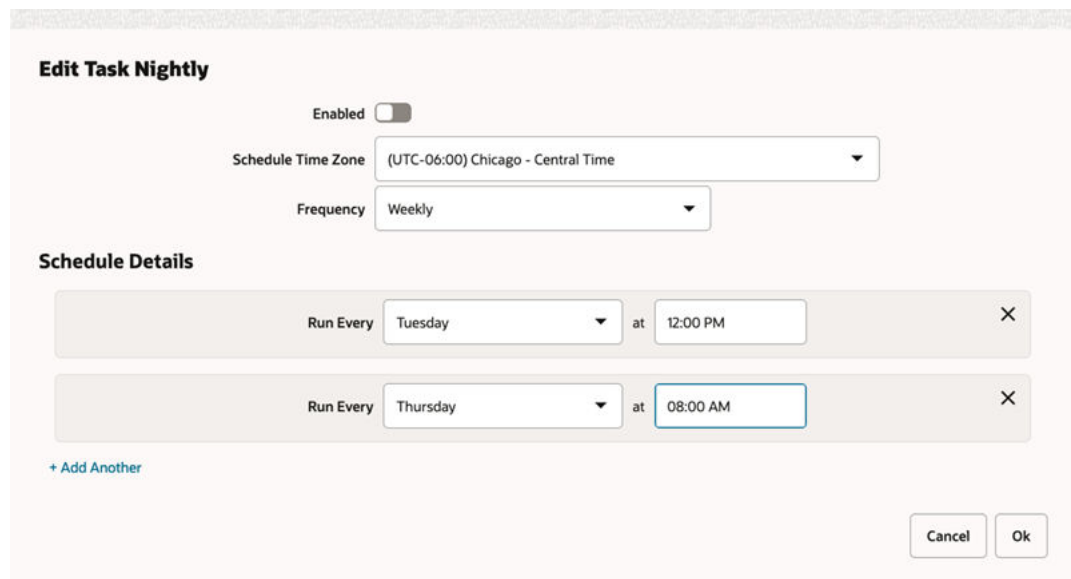
 **Note:**

There is only one Nightly Scheduler task, as there is only one Nightly batch run.

Figure 2-57 Nightly Scheduler Task Administration



The user selects the only row available for the Nightly task, clicks the edit icon then edits the scheduler configuration in the Edit Task Nightly popup. The popup includes the following schedule information for the Nightly task:



- Enabled/Disabled
- Scheduled Time Zone
- Frequency - Possible values are: Daily, Once, Weekly, Monthly (By Date), Monthly (First Day of Month), Monthly (Last Day of Month), and Monthly (By Weekday). However, only the Daily and Weekly frequencies are feasible for the Nightly cycle.

- Schedule Details - Based on the Frequency selection, the Schedule Details refreshes accordingly:
 - Frequency: Daily 'Run Every Day At' <Time AM/PM>.Note that when using the Daily frequency, Nightly will run at the same time every day.
 - Frequency: Weekly 'Run Every' <Day of the week> 'at' <Time AM/PM>.Add Another: Adds another weekday for the same task. Note that when using the Weekly Frequency for the Nightly cycle, it needs to be scheduled for every day of the week. Also note that by using the Weekly Frequency, you can schedule Nightly to run at different times on different days.
 - Selecting any of the other frequencies (Once or any of the Monthly modes) results in Error Message: Nightly cycle supports only Daily and Weekly frequencies.

Recurring Scheduler Tasks Administration

On the Scheduler Administration screen, the user selects a schedule tile at the top of the screen then the Recurring tab right below the tile area then the hourly flow from the drop down to the right of the Recurring tab. The Recurring flow's Scheduler tasks are shown in the tasks table.

Figure 2-58 Recurring Scheduler Tasks Administration

The screenshot displays the Oracle Retail Process Orchestration and Monitoring Scheduler Administration interface. At the top, there are three schedule tiles for RI 22.2.303.56, MERCH 22.22, and RPASCE 2.76. Below these tiles, there are tabs for 'Nightly (1)', 'Recurring (2304)', and 'Standalone (4)'. The 'Recurring (2304)' tab is selected, and a dropdown menu shows 'Hourly_Cycle_3'. The main section is titled 'MERCH Hourly_Cycle_3 Scheduler Tasks'. It includes a table with columns for 'Enabled', 'Flow Name', and 'Task Configuration'. The first row is highlighted in blue and shows 'STORE_ORDERS_PURGE_CYCLE' with a 'Yes' status and a configuration of 'Run Every Day At 0:00 AM (UTC), 1 Time'. Other rows show various purge and cycle tasks, all with a 'No' status and the same configuration.

Enabled	Flow Name	Task Configuration
<input checked="" type="checkbox"/> Yes	STORE_ORDERS_PURGE_CYCLE	Run Every Day At 0:00 AM (UTC), 1 Time
<input type="checkbox"/> No	WF_RETURNS_CLOSE_CYCLE	Run Every Day At 0:00 AM (UTC), 1 Time
<input type="checkbox"/> No	WF_ORDERS_CLOSE_CYCLE	Run Every Day At 0:00 AM (UTC), 1 Time
<input type="checkbox"/> No	TAX_EVENT_PURGE_CYCLE	Run Every Day At 0:00 AM (UTC), 1 Time
<input type="checkbox"/> No	STKLEDGR_HIST_PURGE_CYCLE	Run Every Day At 0:00 AM (UTC), 1 Time
<input type="checkbox"/> No	RPM_PRICE_EVENT_EXECUTION_CHUNK_...	Run Every Day At 0:00 AM (UTC), 1 Time
<input type="checkbox"/> No	RPM_CLEARANCE_PUBLISH_CYCLE	Run Every Day At 0:00 AM (UTC), 1 Time
<input type="checkbox"/> No	STOCKCOUNTUPLOAD_CYCLE	Run Every Day At 0:00 AM (UTC), 1 Time
<input type="checkbox"/> No	WF_COST_TEMPLATE_PURGE_CYCLE	Run Every Day At 0:00 AM (UTC), 1 Time
<input type="checkbox"/> No	ORDER_REVISION_CYCLE	Run Every Day At 0:00 AM (UTC), 1 Time
<input type="checkbox"/> No	ORDER_PURGE_CYCLE	Run Every Day At 0:00 AM (UTC), 1 Time
<input type="checkbox"/> No	SALESPROCESS_CYCLE	Run Every Day At 0:00 AM (UTC), 1 Time

The user selects a task in the table, clicks the edit icon, then edits the scheduler configuration in the Edit Task popup. The popup includes the following schedule information for the selected task:

Edit Task RI_INTRADAY_CYCLE

Enabled

Schedule Time Zone (UTC+05:30) Calcutta - India Standard Time ▼

Frequency Daily ▼

Schedule Details

Run Every Day At 12:00 PM

Cancel Ok

- Enabled/Disabled
- Scheduled Time Zone
- Frequency - Possible values are: Daily, Once, Weekly, Monthly (By Date), Monthly (First Day of Month), Monthly (Last Day of Month), and Monthly (By Weekday). However, only the Daily frequency are feasible for the Recurring cycle.
- Schedule Details - Based on the Frequency selection, the Schedule Details refreshes accordingly:
 - Frequency: Daily 'Run Every Day At' <Time AM/PM>.
 - Selecting any of the other frequencies (Once, Weekly or any of the Monthly modes) results in Error Message: Recurring cycle supports only Daily frequency.

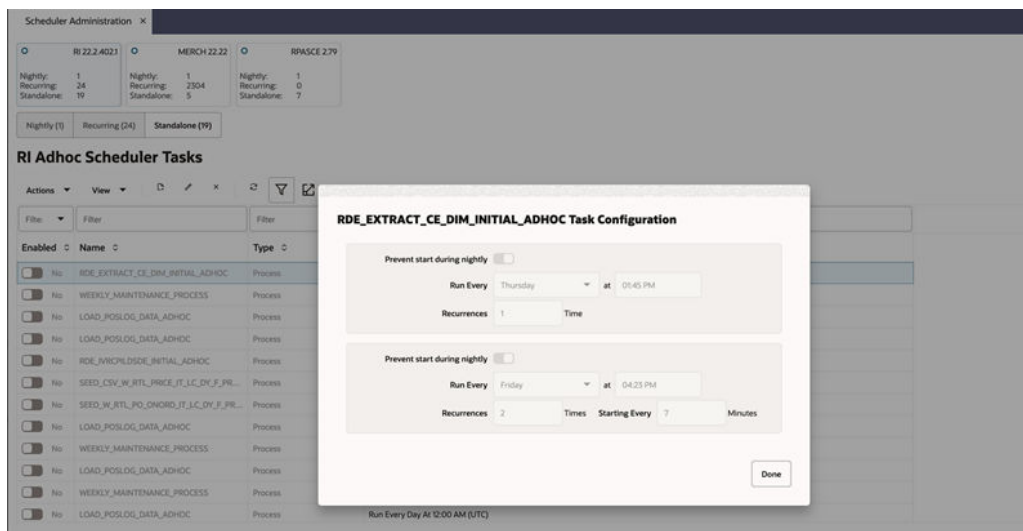
Standalone Scheduler Tasks Administration

In the Scheduler Administration screen, the user selects a schedule tile at the top of the screen and the Standalone tab right below the tile area. The Standalone cycle's Scheduler tasks are shown in the tasks table.

Figure 2-59 Standalone Scheduler Tasks Administration



If the row's Task Configuration column contains a **Show More Details** link, clicking the link opens a pop-up window displaying the task's schedule.



The user can either edit the schedule time for each task in-line, or select a task then click the edit icon to change any of the fields shown in the Edit popup below.

The user selects a task in the table, clicks the edit icon then edits the scheduler configuration in the Edit Task popup. The popup includes the following schedule information for the selected task:

The user can also create and delete Standalone scheduler tasks.

 **Note:**

The user has the option to enter a blank time as long as a frequency in minutes is entered. This will cause the first occurrence to execute immediately.

Edit Task RDE_EXTRACT_CE_DIM_INITIAL_ADHOC

Enabled

Description

Schedule Time Zone (UTC+05:30) Calcutta - India Standard Time ▼

Frequency Weekly ▼

Schedule Details

Prevent start during nightly ✕

Run Every Thursday ▼ at 01:45 PM

Recurrences 1 Time

Prevent start during nightly ✕

Run Every Friday ▼ at 04:23 PM

Recurrences 2 Times Starting Every 7 Minutes

[+ Add Another](#)

 **Note:**

The **Prevent start during nightly** switch prevents the task from running while the Nightly batch is running. However, it won't stop a run that is in progress when the Nightly process starts.

- Enabled/Disabled
- Scheduled Time Zone
- Frequency - Possible values are: Daily, Once, Weekly, Monthly (By Date), Monthly (First Day of Month), Monthly (Last Day of Month), and Monthly (By Weekday).
- If the 'Recurrences' is more than 1, then 'Starting Every n Minutes' has to be specified.
- Schedule Details - Based on the Frequency selection, the Schedule Details refreshes accordingly.

Schedule Maintenance

The Schedule Maintenance screen displays information about the batch schedule upgrade results. You can upgrade a batch schedule to a new version through this screen.

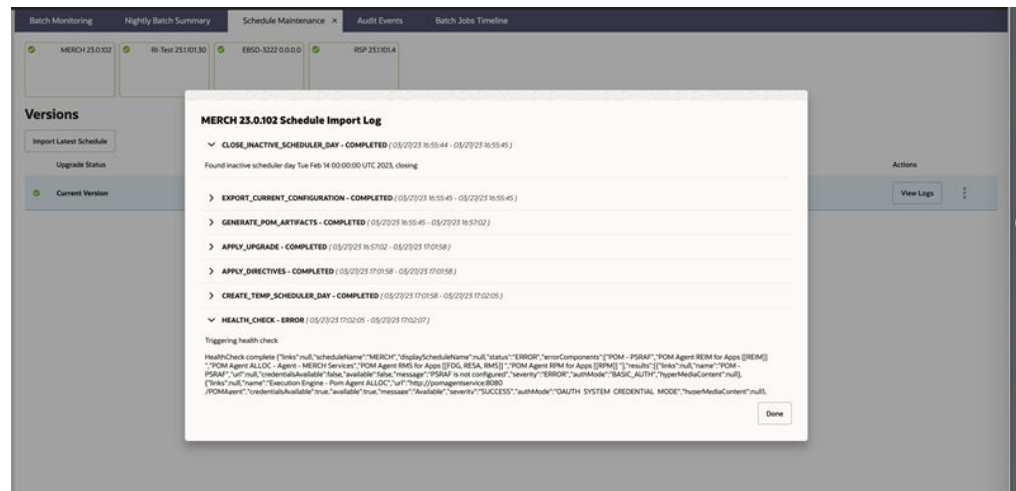
Figure 2-60 Schedule Maintenance Tab

- 1. Batch Tiles** - There is a batch tile for each schedule available in Process Orchestration and Management. Select a tile to show the history of the selected schedule's upgrades or available upgrades.
- 2. Import Latest Schedule** - Use this button to upgrade the selected schedule from a spreadsheet. When clicked, a file selector dialog is displayed (not shown).
The import file is a spreadsheet.
- 3. Update History Status List** - Displays information about each past or available upgrade of the batch schedule. This menu displays the following information for each batch upgrade:
 - Upgrade Status
 - Version
 - Date Upgraded
 - Description
- 4. Actions**
 - **Upgrade** - Use this button to upgrade the schedule. This button only appears for schedules for which an upgrade available.

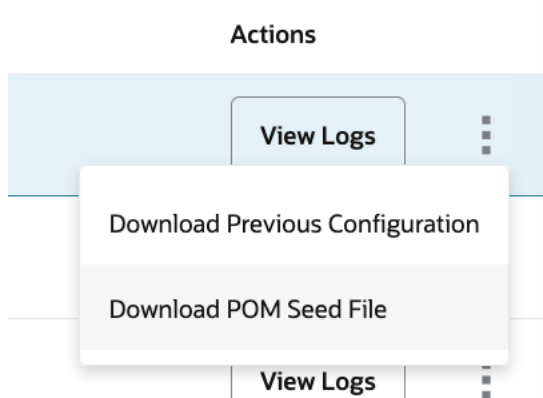
- **Retry** - Use this button to retry a failed update. This button only appears for schedules that have not completed successfully. The retry will resume the upgrade from the failed step.
- **Cancel** - Use this button to cancel the upgrade for an ongoing upgrade as long as it's in stage 4 or less, or to cancel an upgrade in an error state.

When an ongoing upgrade is cancelled, it is marked as Error. The user can then either click the **Cancel** button again to remove the attempted upgrade so it can be started over or click the **Retry** button to resume the upgrade from the failed step.

- **View Logs** - Use this button to view the schedule import log for the selected schedule. The log displays the list of activities completed as part of the schedule import along with the status, timestamp and other information such as success log, error message, skip reason, and so on).
- **Skip Failed Stage** - Use this button to skip the current stage at which the schedule upgrade has failed. This is usually done if the upgrade process is at a stage after the upgrade and you want to ignore failures such as Health Check for now, as you intend to address it later.



5. Download files menu - Use this menu to download schedule files. See [Download Files](#) for more information.



Download Files

Click on the ellipses then select from the download files menu to download files for an upgrade version. This menu has the following options:

- [Download Previous Configuration](#)
- [Download POM Seed File](#)

Download Previous Configuration

Use the **Download Previous Configuration** option to download a file containing the specific schedule version configurations. This file is in JSON format.

Download POM Seed File

Use the **Download POM Seed File** to download an SQL file with POM seed data for the specific schedule version.

Footer

The screen can be set to auto refresh periodically by selecting the pre-defined interval from the **Auto Refresh** list. By default, this value is set to 30 minutes on page load which means the Auto Refresh is turned off.

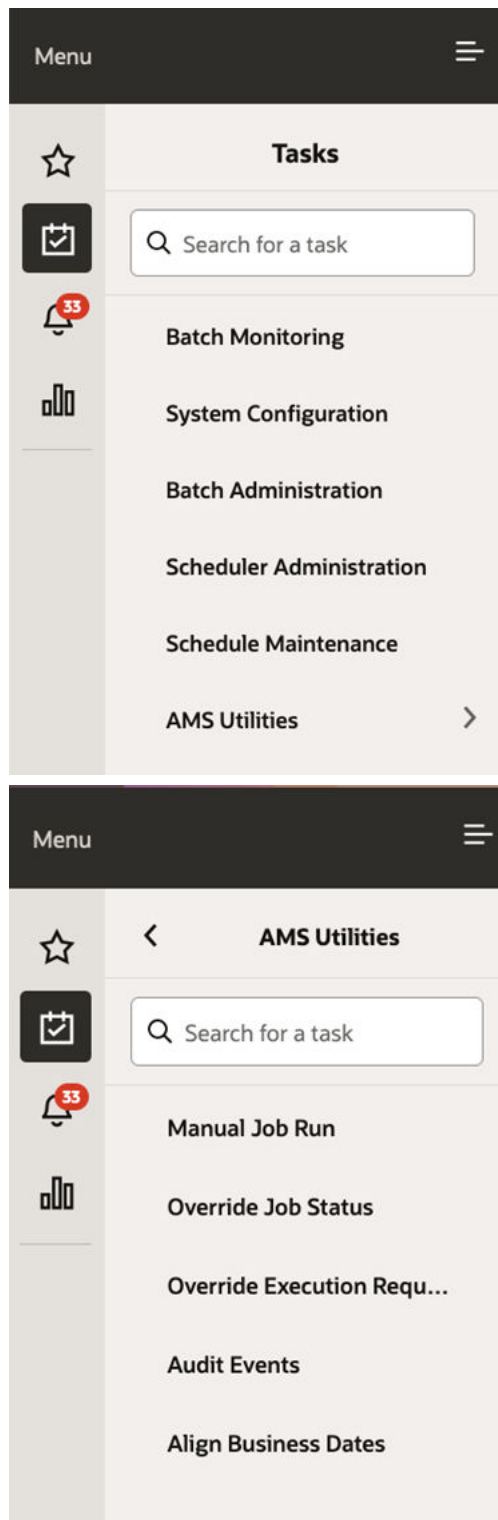
Use the **Refresh** button to refresh the screen immediately.

Last refreshed shows the time and date of the last refresh of the interface.

AMS Utilities

The AMS Utilities are functions performed only by the Oracle administrators.

Select **AMS Utilities** from the Tasks menu to display the submenu.



The AMS Utilities submenu contains the following tasks:

- [Manual Job Run](#)
- [Override Job Status](#)

- [Override Execution Request Status](#)
- [Audit Events](#)
- [Align Business Dates](#)

Manual Job Run

An Oracle administrator uses the Manual Job Run utility to run a job for a particular schedule from either the Nightly or Hourly cycle. Once the selections are made, the user clicks on Run to submit the job for execution. The user then uses the Batch Monitoring screen to monitor the execution of the job.



Note:

A job that is manually run on this UI is run standalone without regard to dependencies.

Figure 2-61 Manual Job Run

The screenshot shows a browser window titled "Manual Job Run" with a close button. Below the title bar, the heading "Manual Job Run" is displayed. A descriptive text reads: "Running a Job manually would simply run the job without regard to its dependencies. These Jobs will not be re-run when the Cycle is running." The form contains three dropdown menus: "Schedule" with "RPAS" selected, "Cycle" with "Nightly" selected, and "Job" with "AP_BATCH_AGG_END_JOB" selected. A "Run" button is located below the dropdowns.

Override Job Status

The next AMS Utility is Override Job Status.

Occasionally, a job in POM gets stuck with a status where manual intervention is needed. This is to reset the status and get the job running for instance. This screen is used for this purpose.

Figure 2-62 Override Job Status

Status	Job	Process Name	Start Time	End Time	Last Update
Error	ad10	AP_ADHOC_10_PROCESS	06/26/23 20:07:33 GMT+5:30	06/26/23 20:07:33 GMT+5:30	06/26/23 20:07:33 GMT+5:30
Loaded	d4	Directive_Process			06/26/23 18:58:18 GMT+5:30
Loaded	d6	Directive_Process			06/26/23 18:58:18 GMT+5:30

Select the schedule and the cycle to display all jobs for those selections in the Jobs table.

In the table, select the row for the job you intend to override the status for and click the **Change Status** button or select **Change Status** from the table's Actions menu. The Change Status popup is displayed.

Change Status of Job ad10

Warning
Exercise extreme caution when overriding a job status as it may lead to unexpected results including data corruption.

Business Date: 23/06/23

New Status:

Comments: Required

Buttons: Cancel, OK

You are required to enter a comment justifying overriding the job's status.

Notice the warning message. An administrator needs to understand the impact of overriding the status as it may lead to data corruption if an unintended action takes place.

Override Execution Request Status

The next AMS Utility is Override Execution Request Status.

Occasionally, a job in the POM's Execution Engine gets stuck with a status where manual intervention is needed. This is to reset the status and get the job running for instance. This screen is used for this purpose.

Figure 2-63 Override Job Execution Status

The screenshot shows the 'Override Execution Request' interface. At the top, there is a 'Find Job' section with a 'Schedule' dropdown set to 'RPAS' and a 'Cycle' section with buttons for 'Nightly', 'Recurring', and 'Standalone'. Below this is a table titled 'RPAS Execution Requests - Standalone'. The table has columns for 'Execution ID', 'Status', 'Cycle', 'Flow', and 'Total Jobs'. One row is visible with Execution ID 601, Status 'Loaded', Cycle 'Adhoc', Flow 'Adhoc', and Total Jobs '2'. Below the table is the 'Execution ID 601 Details' section, which includes a 'Change Status' button and a table with columns for 'Job Run Id', 'Status', 'Job Name', 'Process', 'Job Execution ID', and 'Last Update'. Two rows are shown: one with Job Run Id 2550915, Status 'Error', Job Name 'ad10', Process 'AP_ADHOC_10_PROCESS', Job Execution ID 4001, and Last Update '06/26/23 20:07:33 GMT+5:30'; and another with Job Run Id 2550694, Status 'Loaded', Job Name 'AP_ADHOC_10_JOB', Process 'AP_ADHOC_10_PROCESS', Job Execution ID, and Last Update.

Select the schedule and the cycle to display all jobs for those selections in the Jobs table.

Select the row in the Details table for which you intend to override the status and click the **Change Status** button or select **Change Status** from the table's Actions menu. The Change Status popup is displayed.

The screenshot shows the 'Change Status of Job ad10' popup dialog. At the top, there is a 'Warning' message: 'Exercise extreme caution when overriding an execution request status as it may lead to unexpected results including data corruption.' Below the warning, the 'Business Date' is set to '23/06/23'. The 'New Status' dropdown menu is open, showing options: 'Loaded', 'Completed', and 'Error'. The 'Comments' field is empty, with a note 'Comments is at least fifteen non-repeating' and a 'Required' label. At the bottom, there are 'Cancel' and 'OK' buttons.

You are required to enter a comment justifying overriding the job's current status.

Notice the warning message. An administrator needs to understand the impact of overriding the current status as it may lead to data corruption if an unintended action takes place.

Audit Events

An Oracle administrator uses the Audit Events utility to view the list of audit events associated with the selected schedule. Whenever the system or user triggers any of the actions listed below, a corresponding audit event is created with the related details.

Here's a sample screen listing some sample audit events. The audit events can be filtered based on the following:

- Schedule Name
- Event Type
- Event Severity – High / Medium / Low

The screenshot displays the 'Audit Events' utility in the Oracle Retail Process Orchestration and Monitoring interface. The search filter is set to 'AIF DATA'. The table below shows the following audit events:

Event Id	Severity	Event Type	Event Description	User	Timestamp	User Comment	Business Date	Filter
11251	High	MANUAL_JOB_RUN	Job Ran Manually	amish.sinha@Oracle.com	09/14/23 16:32:47 GMT+5:30	Running the cflow	2023-09-15	Te
11181	High	MANUAL_JOB_RUN	Job Ran Manually	amish.sinha@Oracle.com	09/14/23 16:31:00 GMT+5:30	Running the job	2023-09-15	Te
11179	Medium	UNSET_PATCH_MODE	Unset Patch Mode	POAM_ADMIN	09/14/23 16:26:44 GMT+5:30	Disable patching		
11176	Medium	SET_PATCH_MODE	Setting Patch Mode	POAM_ADMIN	09/14/23 16:20:47 GMT+5:30	enabling patch mode		
11174	High	SKIP_RESTART_SCHEDULE_UPGR...	Schedule Upgrade Skipped	amish.sinha@Oracle.com	09/14/23 15:12:49 GMT+5:30			
11246	High	START_SCHEDULE_UPGRADE	Schedule Upgrade Started	amish.sinha@Oracle.com	09/14/23 14:03:35 GMT+5:30			
11171	High	CANCEL_SCHEDULE_UPGRADE	Schedule Upgrade Cancelled	amish.sinha@Oracle.com	09/14/23 14:03:15 GMT+5:30			
11170	High	START_SCHEDULE_UPGRADE	Schedule Upgrade Started	amish.sinha@Oracle.com	09/14/23 14:00:55 GMT+5:30			

The actions that trigger an audit event are listed below:

#	Screen	Actions
1	Batch Monitoring	<ul style="list-style-type: none"> • Manual Close/Create/Restart scheduler day • Job actions (Run/Hold/Skip and so on) • Enabled/Disable Scheduler • Suspend/enable the Schedule • Schedule task creation or manual run • Enable/disable dependencies • Manual Flow Run • Manual Process Run • Cycle Recover • Update Job Parameter

#	Screen	Actions
2	Batch Administration	<ul style="list-style-type: none"> • Enable/Disable Jobs • Job configuration update • MDF Sync • Export/Import configuration <ul style="list-style-type: none"> – Schedule Config – Custom Entities • Custom Batch Entity (Create/Update/Delete) • Enabled/Disable Invokable • Enable All/ Disable All action
3	System Configuration	<ul style="list-style-type: none"> • Update environment settings (URLs) • Update / Remove external configuration • Update System settings • Create/Update/Delete of custom job type • New Schedule Creation • System Option Update
4	Scheduler Administration	<ul style="list-style-type: none"> • Enable/disable a scheduler task • Configuration update • Scheduler Task delete
5	Schedule Maintenance	<ul style="list-style-type: none"> • Schedule upgrade
6	AMS Utilities	<ul style="list-style-type: none"> • Manual job run • Exec request status update • Job status update

Align Business Dates

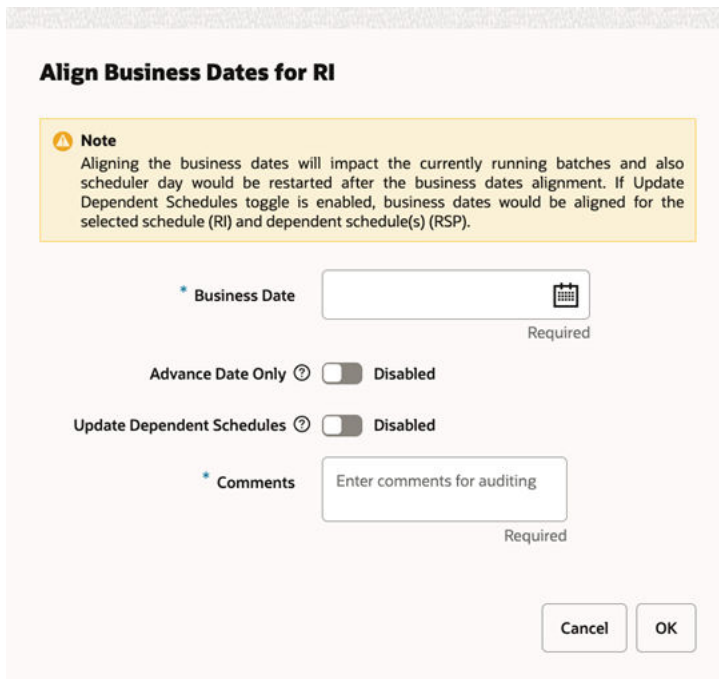
An Oracle Administrator uses **Align Business Dates** to align the business dates for the schedules.

The Schedules Configuration screen shows all available schedules and their statuses.

The screenshot shows the Oracle Retail Process Orchestration and Monitoring interface. The main title is "Oracle Retail Process Orchestration and Monitoring". Below the title, there are two tabs: "Batch Monitoring" and "Align Business Dates". The "Align Business Dates" tab is active. The main content area is titled "Schedules Configuration". Below the title, there are several icons and a table. The table has four columns: "Schedule Name", "Current Business Date", "Dependent Schedules", and "Scheduler Day Status". The table contains five rows of data:


Schedule Name	Current Business Date	Dependent Schedules	Scheduler Day Status
RI	2023-05-15	RSP	Active
Test-Merch	2023-05-27	NO_DEPENDENCIES	Completed
RSP	2023-05-14	RI	Active
TEST	2023-05-23	NO_DEPENDENCIES	Active
RPASCE	2023-05-30	NO_DEPENDENCIES	Active

Select the Schedule Name and click the **Align Business Date** button to align the business date for a schedule.



Align Business Dates for RI

Note
Aligning the business dates will impact the currently running batches and also scheduler day would be restarted after the business dates alignment. If Update Dependent Schedules toggle is enabled, business dates would be aligned for the selected schedule (RI) and dependent schedule(s) (RSP).

* Business Date  Required

Advance Date Only Disabled

Update Dependent Schedules Disabled

* Comments Required

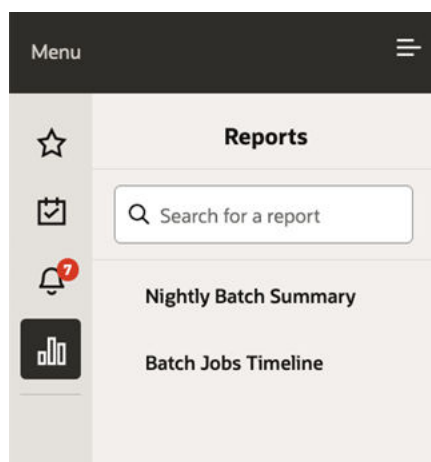
Cancel OK

Select a **Business Date**, add **Comments** and click the **OK** button to align that business date for the selected schedule.

Optionally, toggle the **Advance Date Only** switch to enforce only business date advancement for the selected schedule and for the dependent schedules if applicable. You can also toggle the **Update Dependent Schedules** switch to enforce business date alignment for all inter-schedule dependent schedules and for schedules linked through execution links.

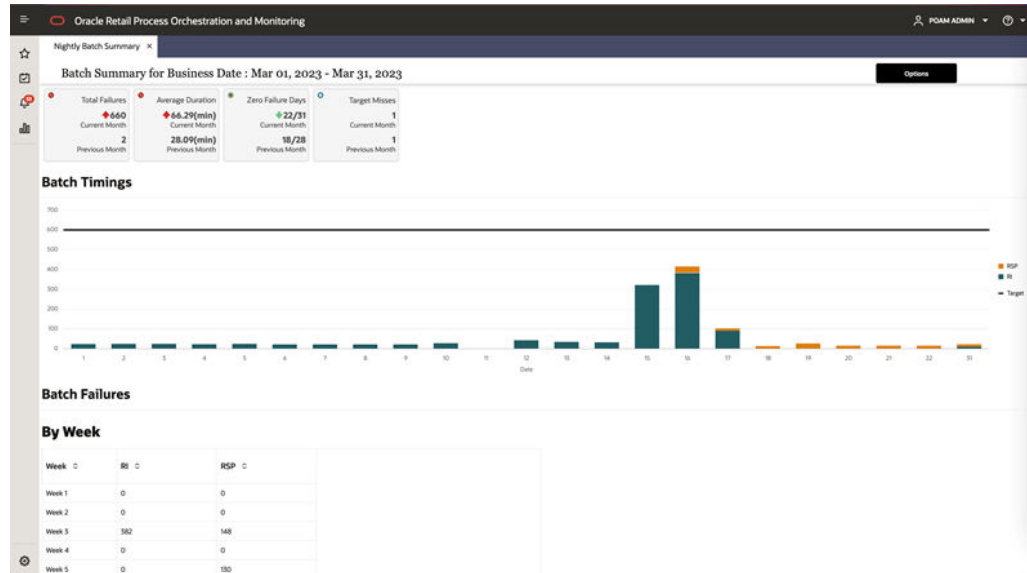
Reports

Select **Reports** from the main menu to display the submenu.



Nightly Batch Summary

The Nightly Batch Summary displays a configurable Batch Summary report, which displays Nightly cycle statistics across select schedules.



Click the **Options** button to select the month and schedule(s) for which the report is to be run. All the schedules are populated by default and can be added or removed as needed. The **Switch to Current Month** button resets the summary report to the current month.

Options

* Select Month: March- 2023

* Select Schedule: MERCH X EBSD-3222 X RI X RSP X

Buttons: Cancel, OK, Switch to Current Month

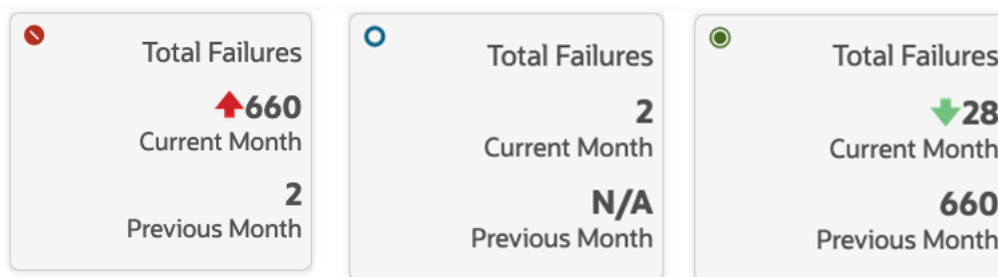
The statistics displayed as tiles are,

- Total Failures

- Average Duration
- Zero Failure Days
- Target Misses for the current and previous month

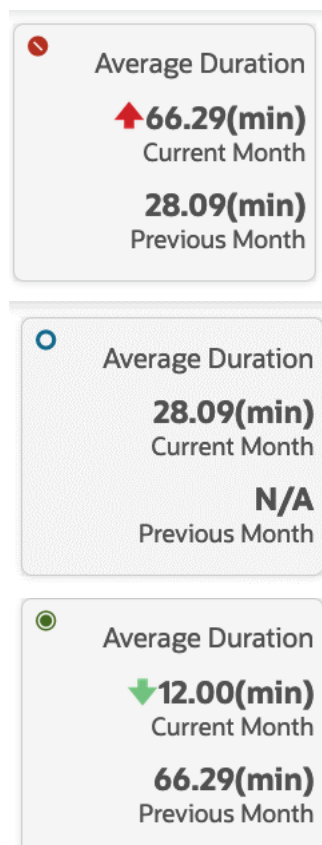
A red icon in the top left corner indicates that the statistics count is a serious concern that needs to be addressed. A blue icon indicates a neutral status and green icon indicates an acceptable failure count.

Tile# 1 – Total Failures



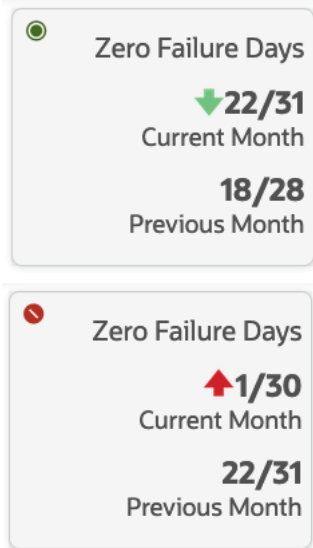
This tile displays the total batch failures for the selected month and schedules. The previous month's failure count is also displayed for comparison.

Tile# 2 – Average Duration



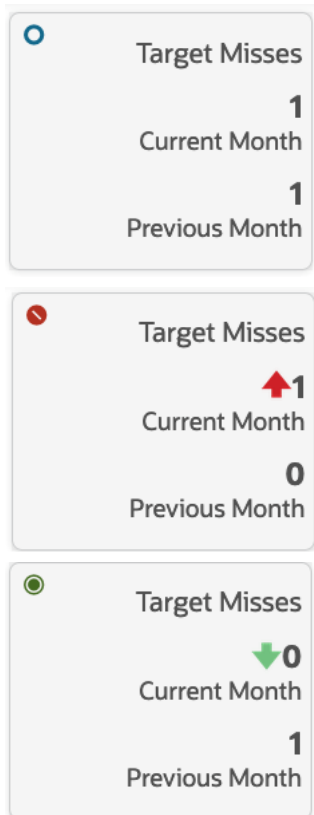
This tile displays the average duration of a batch cycle for the selected month and schedules. The previous month's average duration is also displayed for comparison.

Tile# 3 – Zero Failure Days



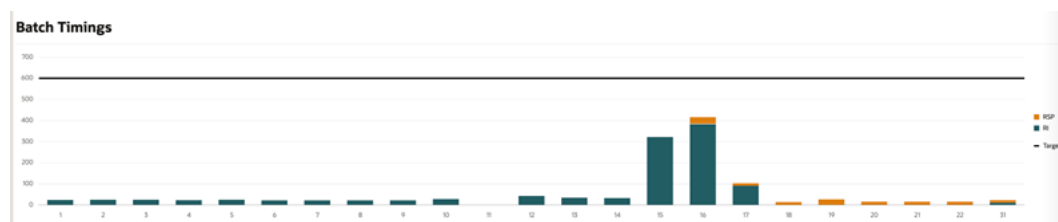
This tile displays the count of the days when a batch completed execution without any failure for the selected month and schedules. The previous month's Zero failures count is also displayed for comparison.

Tile# 4 – Target Misses



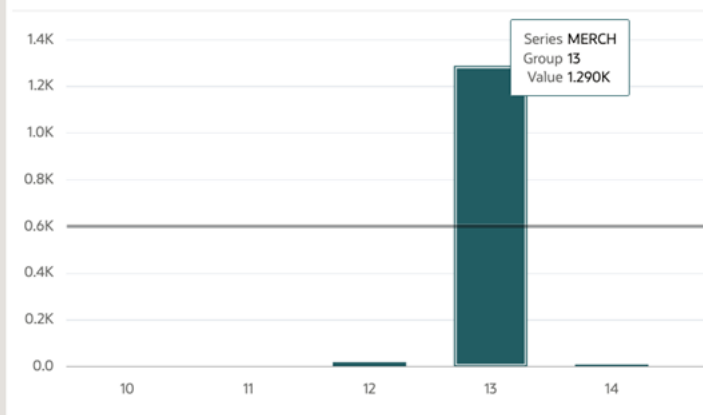
The Target Batch Duration is a threshold that can be set at the schedule level at provisioning time. It can also be added or modified on the System Options screen accessed from the System Configuration screen. This system option's key is `TARGET_BATCH_DURATION`. A target miss occurs when batch duration for a schedule exceeds this threshold. The Target Misses tile displays the miss count for the month along with the respective Arrow icon color.

Batch Timings Bar Graph



The Batch Timings bar graph by date, shows the Schedule Name(s) in the right margin, along with a bar for each day of the month. Each bar represents a stacked nightly batch duration per schedule for that day.

Batch Timings



Batch Failures

Batch Failures

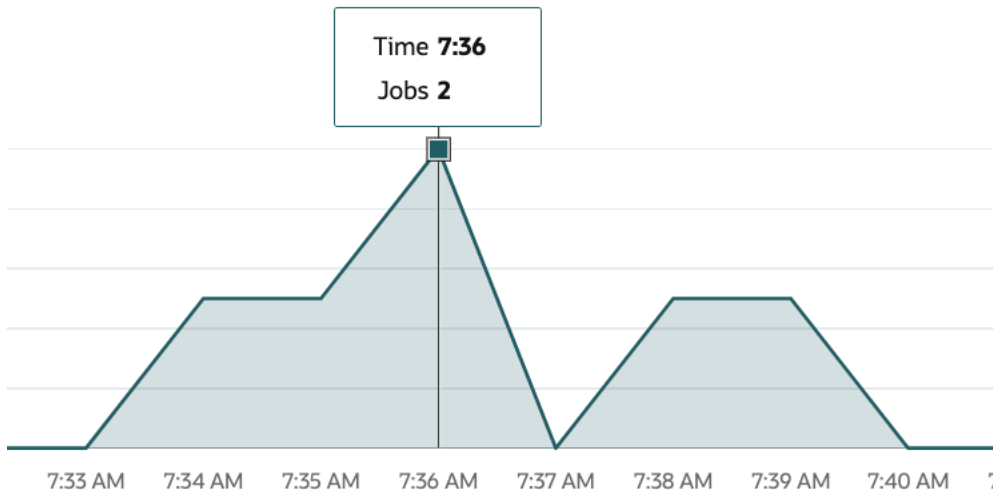
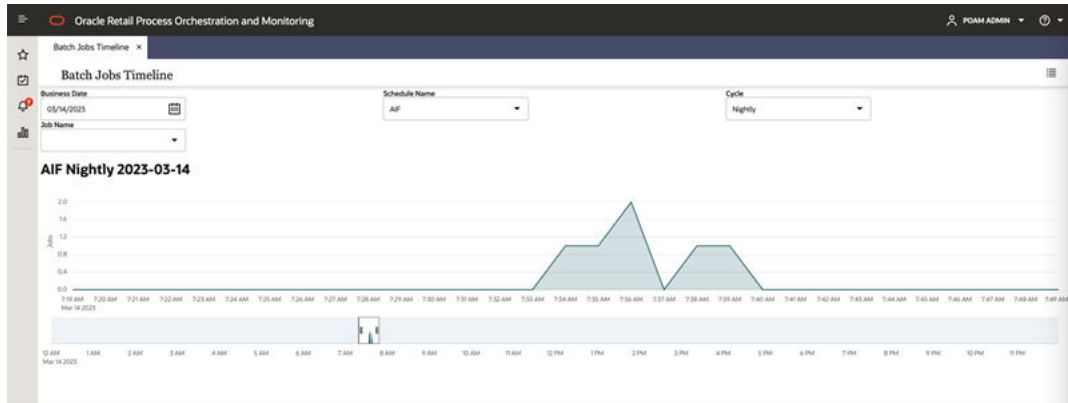
By Week

Week	RI	RSP
Week 1	0	0
Week 2	0	0
Week 3	382	148
Week 4	0	0
Week 5	0	130

The Batch Failures section of the report provides the total batch failures on a weekly basis for the selected schedules and month.

Batch Jobs Timeline

The Batch Jobs Timeline report displays the timeline of the jobs executed for the selected Business Date, Schedule, and Cycle. The Batch Jobs Timeline can also be accessed by clicking the **Download Cycle Summary** button, then **Open Report** from the Batch Monitoring screen for a completed schedule.



3

User Roles

Roles are used to classify users based on job responsibilities and actions to be performed in the Oracle Retail Process Orchestration and Monitoring application (POM). Using roles, a user's access can be restricted to specific areas or functions within the application. In POM, users must be associated with at least one job role in order to access the application.

The following topics are covered in this chapter:

[Roles](#)

[Functional Access by Role](#)

Roles

POM comes available with a set of pre-defined roles described in the table below. In addition to the roles, the table contains an alias for each role which is used in the next section for easier reading.

Table 3-1 Roles

Role	Alias	Description
BATCH_ADMINISTRATOR_JOB	Administrator	Users within this role are retailer administrators with full access to all POM actions. They monitor, maintain and configure the batch schedules. They may also maintain POM application configurations for efficient operations. They troubleshoot batch issues and work with Oracle support personnel to address those issues. Finally, they may apply batch schedule patches and upgrades. Additionally, users assigned this role are given access to the Oracle AMS Utilities screen.
BATCH_VIEWER_JOB	Viewer	Users within this role are retailer business users responsible for just monitoring batch. They have view access to all POM screens except AMS Utilities.
BATCH_SCHEDULE_CONFIGURATION_MANAGER_JOB	Schedule Config Mgr	Users within this role are typically retailer administrators responsible for just monitoring batch and configuring external dependencies and callbacks into the Company's systems. They have view access to all POM screens except AMS Utilities.

Table 3-1 (Cont.) Roles

Role	Alias	Description
BATCH_SCHEDULE_ADMINISTRATOR_JOB	Schedule Admin	Users within this role are typically retailer administrators responsible for maintaining, monitoring and executing batch. They have view access to all POM screens except AMS Utilities. They can perform select activities on the Batch Monitor screen to move the schedule along. They also have update access to the Batch Administration screen. They can also configure some application properties and can configure a new schedule
BATCH_ORACLE_AMS_ADMINISTRATOR_JOB	AMS Admin	Users within this role are typically Oracle AMS administrators who monitor, maintain and configure the batch schedules. They also maintain POM application configurations for efficient operations. They troubleshoot batch issues and work with other Oracle development and support personnel to address those issues. Finally they apply POM and batch schedule patches and upgrades.

Functional Access by Role

This section lists all roles that have update access for each functional aspect of every screen. It is organized by screen, except for the first two tables.

Table 3-2 External Integration

Feature	Roles (aliases) with access
Invoking batch execution from an external system	Schedule Admin Administrator
Requesting the status of a batch execution	AMS Admin
Releasing dependency on an external process	

Table 3-3 POM Task Menu

Feature	Roles (aliases) with access
Show Batch Monitoring task	Administrator Viewer Schedule Config Mgr Schedule Admin AMS Admin

Table 3-3 (Cont.) POM Task Menu

Feature	Roles (aliases) with access
Show System Configuration task	Administrator Viewer Schedule Config Mgr Schedule Admin AMS Admin
Show Batch Administration task	Administrator Viewer Schedule Config Mgr Schedule Admin AMS Admin
Show Scheduler Administration task	Administrator Schedule Admin AMS Admin
Show Schedule Maintenance task	Administrator Viewer Schedule Config Mgr Schedule Admin AMS Admin
Show AMS Utilities task	AMS Admin

Table 3-4 Screen: Batch Monitoring

Feature	Roles (aliases) with update access
Buttons for Create Schedule, Close Schedule and Restart Schedule	Schedule Admin Administrator AMS Admin
Jobs table on Batch Monitoring screen - Buttons for Run, Rerun, Hold, Release, Skip, Release Skip, and action for Add Comments	Schedule Admin Administrator AMS Admin
Jobs table Actions menu on Batch Monitoring screen - Edit Parameters (for selected job)	Schedule Admin Administrator AMS Admin
Job Details screen - Enable/Disable External Dependencies	Administrator Schedule Config Mgr Schedule Admin AMS Admin
Job Details screen - Retry Schedule Link button	Administrator AMS Admin
Job Details screen - Retry Callback button	Administrator AMS Admin

Table 3-4 (Cont.) Screen: Batch Monitoring

Feature	Roles (aliases) with update access
Execution Engine display Configuration	Administrator AMS Admin
Download Job Log	All authenticated users
Download Cycle Summary	All authenticated users
Scheduler Tasks Monitoring and actions	Administrator Schedule Admin AMS Admin

Table 3-5 Screen: System Configuration

Feature	Roles (aliases) with update access
System tab - Update actions	Administrator AMS Admin
Schedule tab - Update actions for general & environment settings	Administrator AMS Admin
Schedule tab - Job agent system options dialog	Administrator AMS Admin
Schedule tab - Update actions for MDF configuration	Administrator AMS Admin
Schedule tab - Update actions for job agent throttling configuration	Administrator AMS Admin
System tab - Update actions for external configurations	Administrator Schedule Config Mgr Schedule Admin AMS Admin
Global Edit - Settings updates	Administrator AMS Admin
Global Edit - External Configuration updates	Administrator Schedule Config Mgr Schedule Admin AMS Admin
Configure New Schedule	Administrator Schedule Admin AMS Admin

Table 3-6 Screen: Batch Administration

Feature	Roles (aliases) with update access
Export Config and Import Config buttons	Administrator Schedule Admin AMS Admin

Table 3-6 (Cont.) Screen: Batch Administration

Feature	Roles (aliases) with update access
Enable/disable switch on each of the Recurring Flows and Jobs within each Flow	Administrator Schedule Admin AMS Admin
Jobs table on main UI - Edit and Enable/Disable actions	Administrator Schedule Admin AMS Admin
Batch Job Details - Enable/Disable Dependencies	Administrator AMS Admin
Batch Job Details - Create/Enable/Disable/Delete Inter-Schedule Dependencies	Administrator AMS Admin
Batch Job Details - Create/Enable/Disable/Delete Schedule links	Administrator AMS Admin
Batch Job Details - Create/Enable/Disable/Delete External Dependencies	Administrator Schedule Config Mgr Schedule Admin AMS Admin
Create/Edit/Delete Custom Adhoc Entities	Administrator Schedule Admin AMS Admin

Table 3-7 Screen: Scheduler Administration

Feature	Roles (aliases) with update access
All Functions on the Scheduler Administration screen	Administrator Schedule Admin AMS Admin

Table 3-8 Screen: Schedule Maintenance

Feature	Roles (aliases) with update access
All actions: Import Latest Schedule button, Upgrade, Retry buttons in table row	Administrator AMS Admin
Download Configuration and download POM seed data	

Table 3-9 Screen: AMS Utilities

Feature	Roles (aliases) with update access
Manual Job Run	Administrator
Override Job Status	AMS Admin
Override Execution Request Status	
View Audit Events	
Align Business Dates	

Table 3-10 Screen: Application Properties

Feature	Roles (aliases) with update access
Application Properties	Schedule Admin Administrator AMS Admin