Oracle® Retail Process Orchestration and Monitoring User Guide





Oracle Retail Process Orchestration and Monitoring User Guide,

G38769-01

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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.

Documentation Accessibility

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- Detailed step-by-step instructions to re-create
- Exact error message received
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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.

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 <u>Navigation Area</u> 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

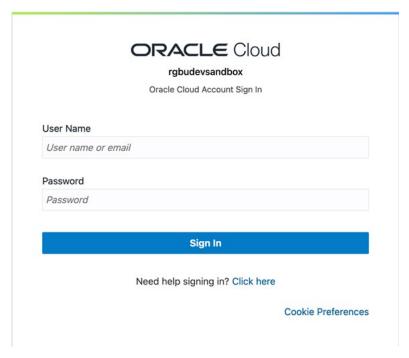
To log on to the application:

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

The Welcome Screen opens.



Figure 1-1 Welcome Screen



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





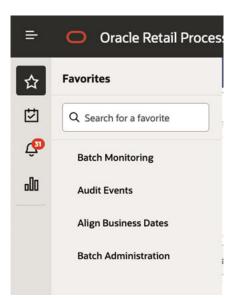
The following Navigation bar options are common across all the applications:

- 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

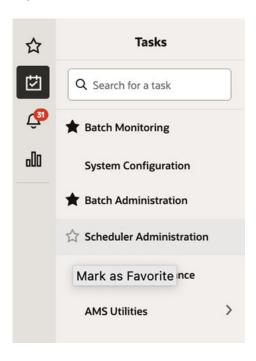


Mark as Favorite

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.



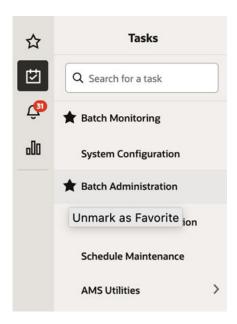
Figure 1-4 Mark as Favorite



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

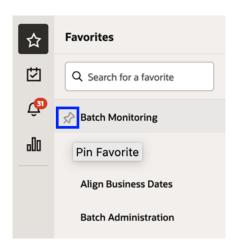
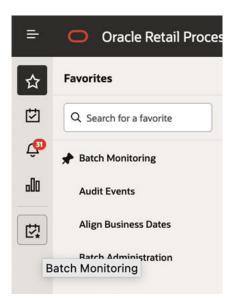


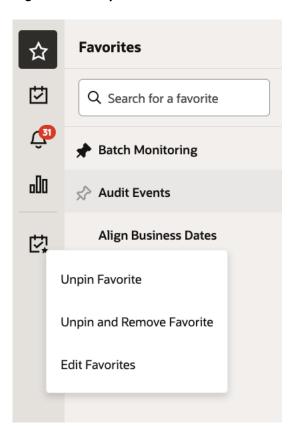
Figure 1-7 Pinned Favorite in Navigation Bar



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.



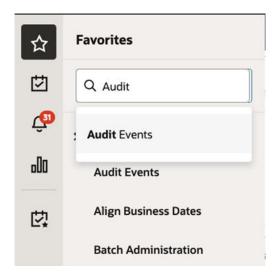
Figure 1-8 Unpin Favorite



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

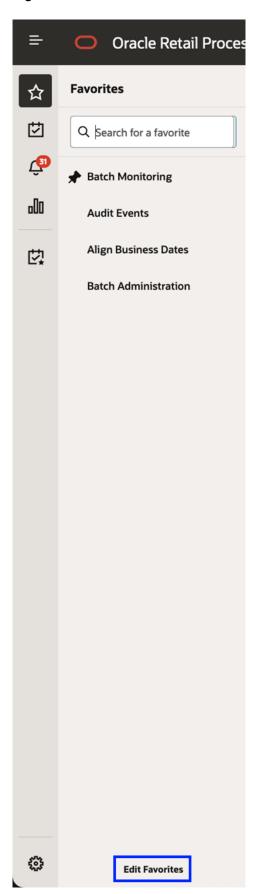
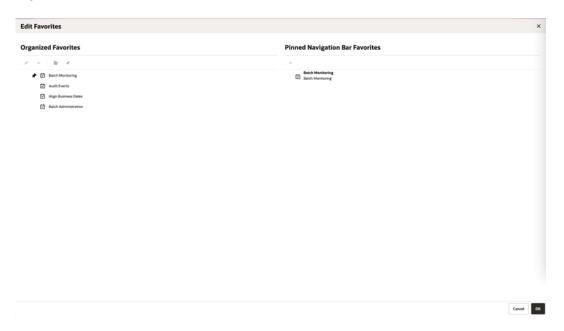




Figure 1-11 Edit Favorites Window



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.

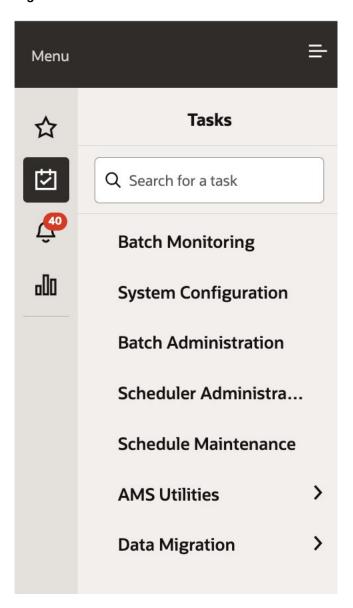
To begin working with a task, choose the application feature or process from the list.



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



Figure 1-12 Tasks Menu



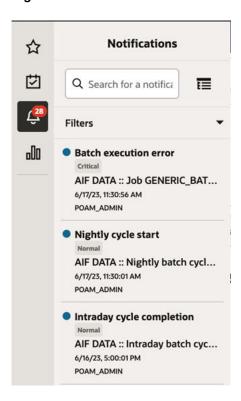
Notifications

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

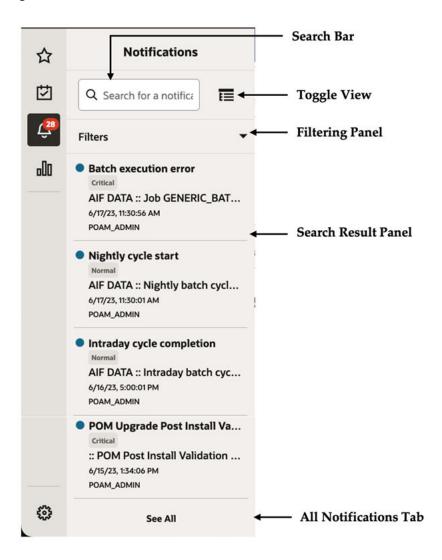




Notification Sidebar

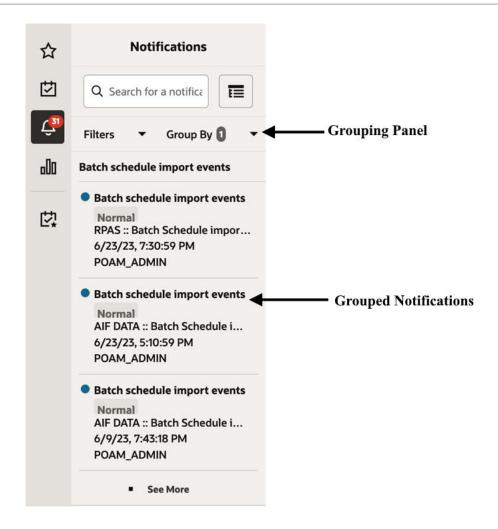
When you click the Notification icon, a Notifications Sidebar is shown that displays the most recent set of unread notifications in the notifications screen (depending on the filter set).

Figure 1-15 Notifications Sidebar



When Toggle View is activated:





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

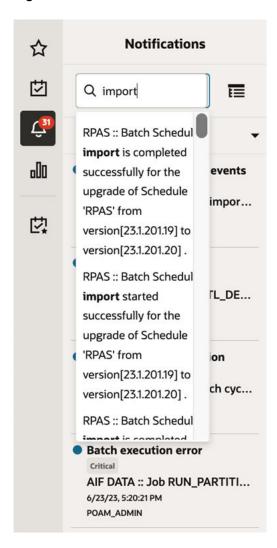
Search Bar

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

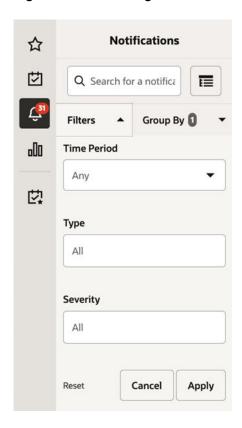
The Filtering Panel allows you to filter notifications based on the creation Time Period, Type and Severity.

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



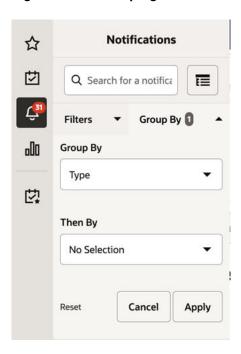
Grouping Panel

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



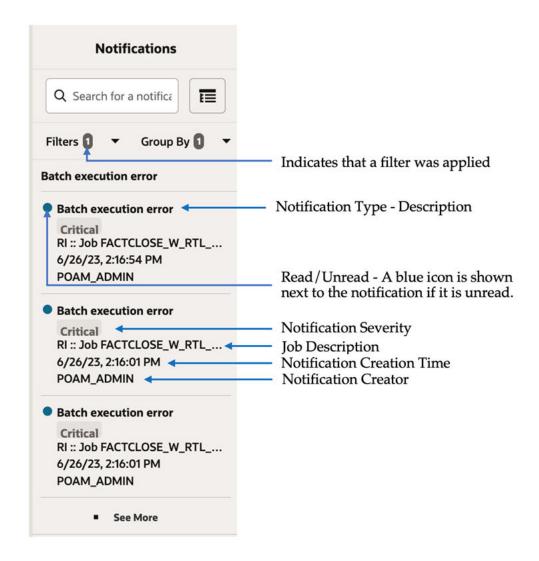
Results Panel - List View

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

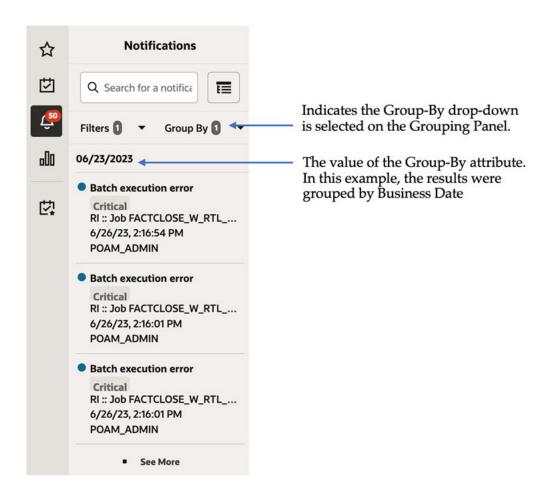
Results Panel - Grouped View

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

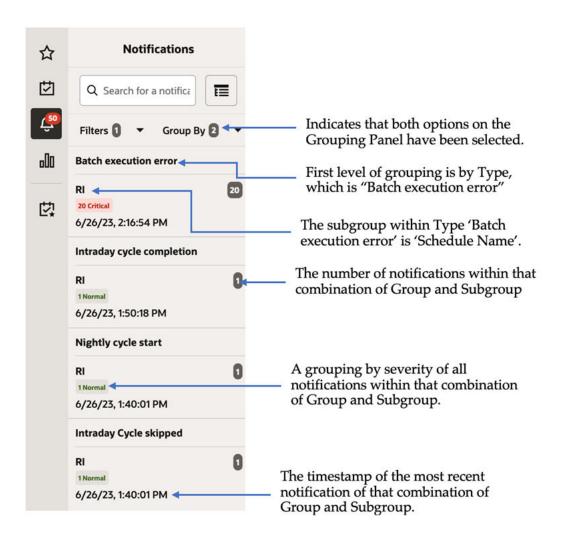
Notifications are summarized as shown in this example, when both the Group By and the Then By dropdowns in the Grouping Panel are selected.

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

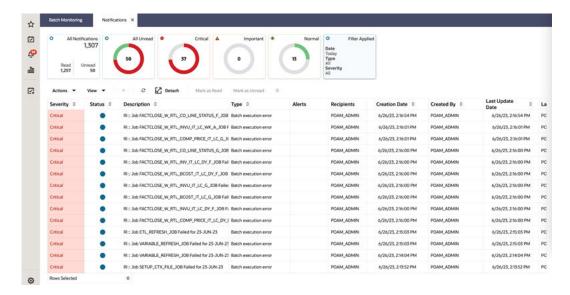


Notifications Tab

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



Figure 1-22 Notifications Tab



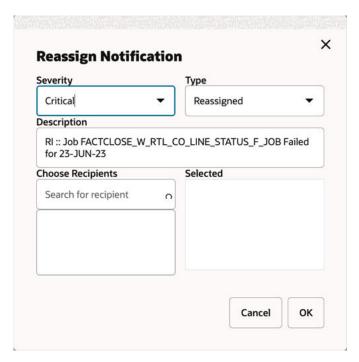
This tab lists all the notifications for the logged-in user, regardless of whether they are in Read or Unread status. Information tiles display a break-up of the total notifications by severity. Clicking these tiles refreshes the table below to display only those notifications that are relevant to that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

You can perform the following operations from this tab.

- Delete X 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 4 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.



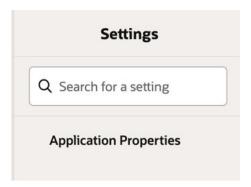
- Brand The Brand associated with the notification. Not visible by default.
- Rollup Count The Rollup Count associated with the notification. Not visible by default.
- Additional Information Refers to the Additional Information attribute associated with the notification. Not visible by default.

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.



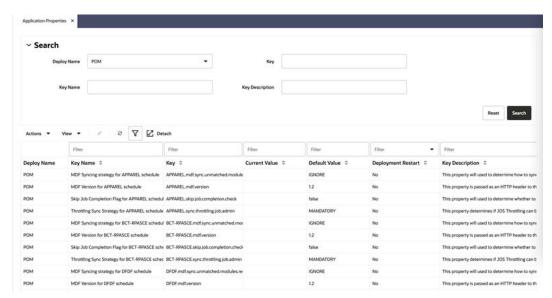
Application Properties

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 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:

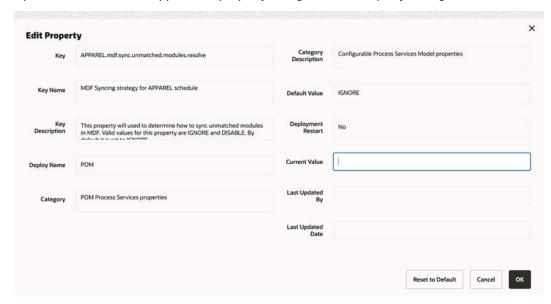


Table Menu Options

(i) Note

<u>Figure 1-24</u>, <u>Figure 1-25</u> 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 <u>Action Menu and Icons</u> and <u>View Menu</u>.



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

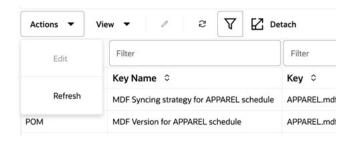


Table 1-1 Actions Menu/Icons and Descriptions

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 T 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 s 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

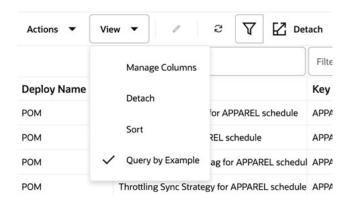


Table 1-2 View Menu/Icons and Descriptions

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

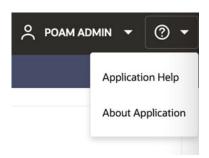
Icons/Buttons	Description
Close window X	Click the X icon to close the window.

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.



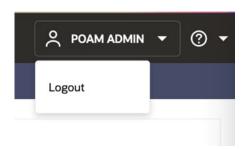
Figure 1-26 Application Help Menu



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



Process Orchestration and Monitoring

The Process Orchestration and Monitoring (POM) application is a user interface for scheduling, tracking and managing batch jobs. It's also a facility for migrating data from one environment to another.

Process Orchestration and Monitoring has the following tabs:

- Batch Monitoring
- System Configuration
- Batch Administration
- Scheduler Administration
- Schedule Maintenance
- AMS Utilities
- Data Migration
- Reports

Batch Monitoring

Batch Monitoring

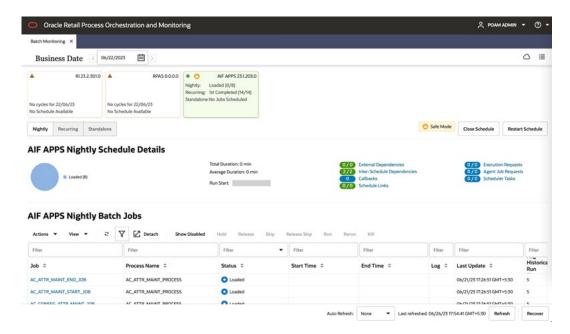
The Batch Monitoring tab provides a runtime view of the statuses and dependencies with regard to the different batch cycles for the selected business day.

Select **Batch Monitoring** in the <u>Navigation Area</u> 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.



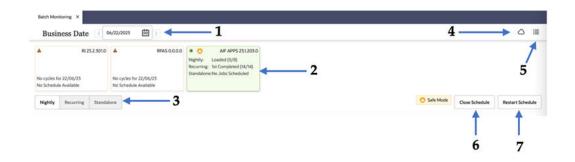
Figure 2-1 Batch Monitoring



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



 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:

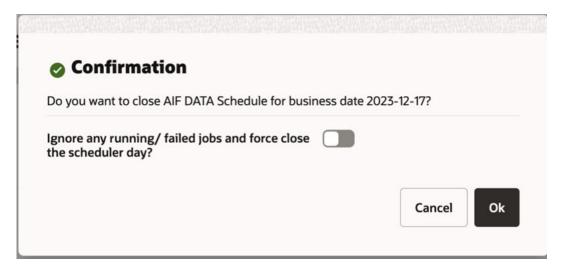


- Nightly
- Recurring
- Standalone
- 4. **Environment Status Icon** Click this icon to display a panel at the right side of the screen showing the status of the Scheduler, Execution Engine and the environments. The user can also manage the information displayed. See <u>Status</u> for more information.
- 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.

Note

Schedule will only close if the respective business date doesn't have any Running/Error job(s).

POM also provides the option to ignore this validation.



Restart Schedule - Use this button to restart the schedule. This button only appears for Active schedules.

Note

Just like the Close Schedule, schedule will only restart if the respective business date doesn't have any Running/Error job(s).

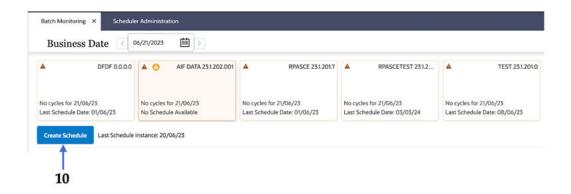
POM also provides the option to ignore this validation.





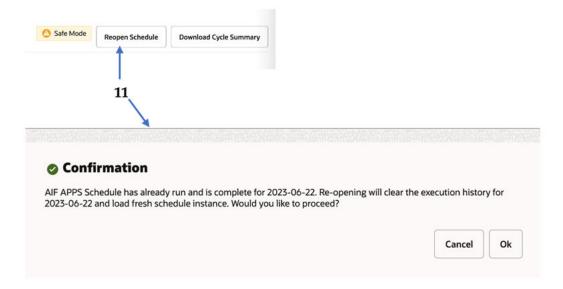


- View Upgrades Use this button to navigate to the Schedule Maintenance screen to view more details on an upgrade when it is in progress or in error.
- 9. Download Cycle Summary Use this button to download a summary for the currently selected business day for the selected schedule. Once clicked, the <u>Download Cycle Summary</u> 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?

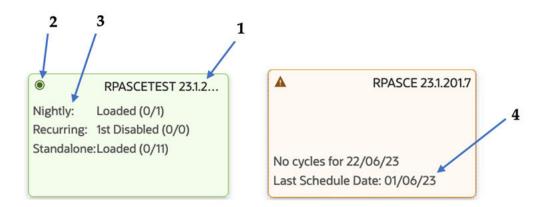
Schedule Tiles

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



 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 <u>Schedule Maintenance</u> screen by clicking on the <u>View</u> <u>Upgrades</u> 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
 <u>Schedule Maintenance</u> 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

1 Some features are disabled while a schedule is being imported

1 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.



 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.



 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 + Long Running Tolerance Level. The value for the Long Running Tolerance Level can be overridden by changing the value of batch schedule variable defaultLongRunningToleranceLevel on the System Options screen accessed from the System Configuration screen. The value is in seconds.

For example, if a job's average run time is 3 minutes, and the Long Run Average Time Multiplier is 3, and the Long Running Tolerance Level is 6 minutes, then the job is considered long running if it has been running for at least 15 minutes. A notification is sent when a job is deemed long running.

If the **Threshold Run Time** field for a job is 0 or blank, and there is no history of job run, the job will be considered long-running when its run time exceeds the default long running threshold run time of 10 minutes. This default value can be overridden by changing the value of batch schedule variable **defaultLongRunningThresholdRunTime** on the System Options screen accessed from the System Configuration screen. The value is in seconds.

- Disabled Job was disabled by an administrator on the <u>Batch Administration</u> 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





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



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

- Run Start
- Expected Completion Only Nightly jobs are considered in the calculation of the Expected Completion time. Dependencies, such as external dependencies, inter-schedule dependencies, and custom dependencies of Nightly jobs on Adhoc Flows are not considered in the calculation and may impact Expected Completion time.
- Remaining Duration
- Average Duration

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 <u>Agent Job Requests Window</u> for the schedule and cycle selected.

Scheduler Tasks - Displays all tasks scheduled to run during the current scheduler day. Click to open the <u>Scheduler Tasks</u> window.

External Dependencies - Displays the number of successful and total number of external dependencies. Click to open the <u>Batch Cycle Details Screen</u>.

Inter-Schedule Dependencies - Displays the number of successful and total number of inter-schedule dependencies. Click to open the <u>Batch Cycle Details Screen</u>.

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 <u>Batch Cycle Details Screen</u>.

Execution Requests Window

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

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

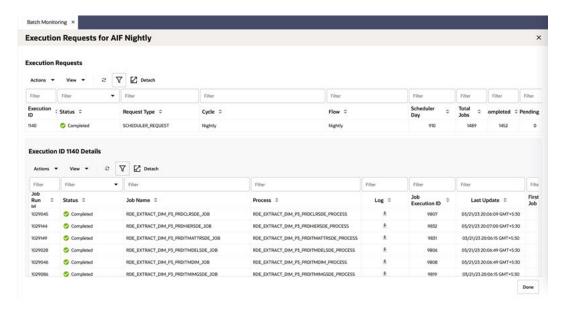


Figure 2-5 Execution Requests Window

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 <u>Table Menu Options</u> in the <u>Common User Interface Controls</u> 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 <u>Table Menu Options</u> in the <u>Common User Interface Controls</u> for information about the options available in this section.

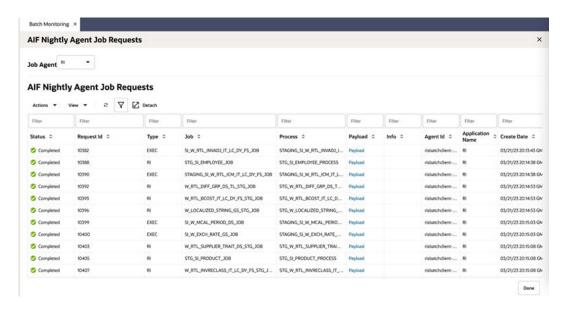
Agent Job Requests Window

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 (X) to close the window.



Figure 2-6 Agent Job Requests Window



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 <u>Table Menu Options</u> in the <u>Common User Interface Controls</u> 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

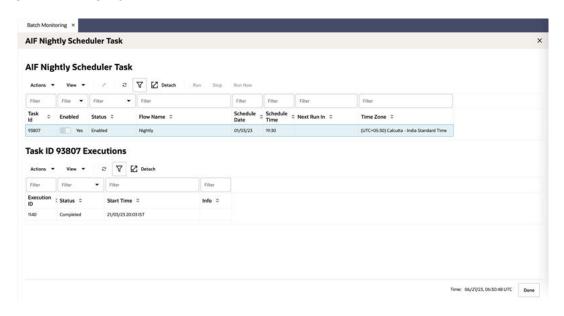
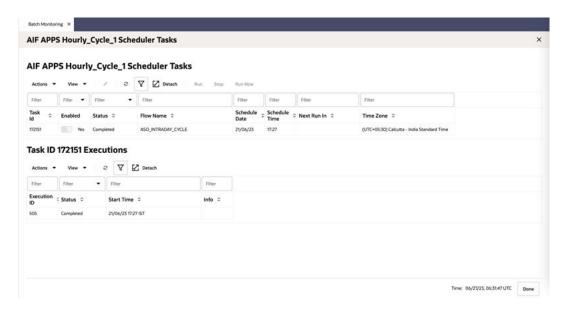


Figure 2-8 Recurring Scheduler Tasks Window



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

(i) 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 <u>Table Menu Options</u> in <u>Common User Interface Controls</u> 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 <u>Table Menu Options</u> in <u>Common User Interface Controls</u> 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

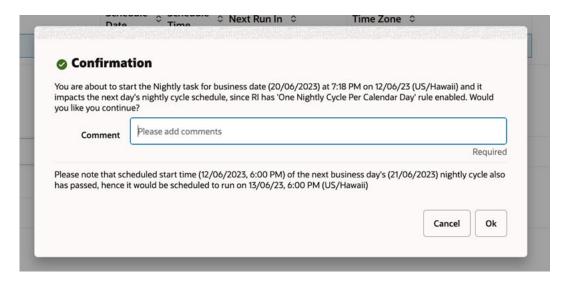
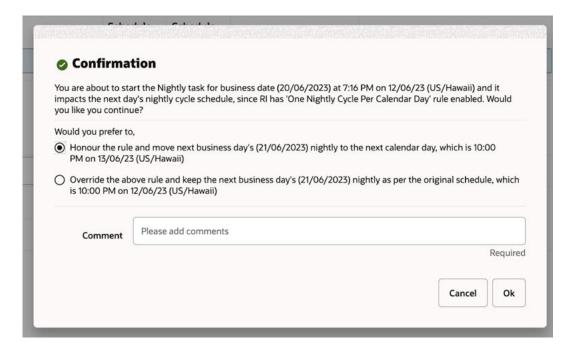
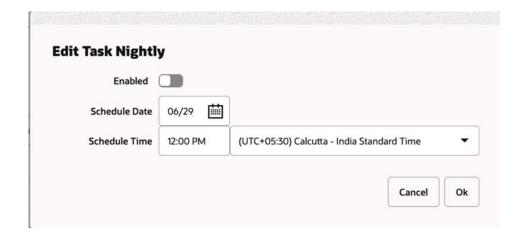


Figure 2-10 The scheduled time in the given time zone has not passed the current date



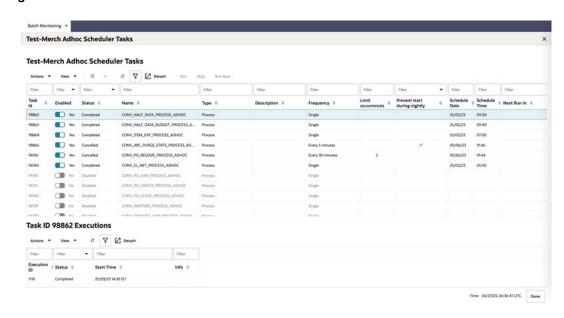
Also, for the task to be editable, it must be in a state other than Scheduled. If it is in a Scheduled state, the user can click the stop action, which puts the task in a Cancelled state, and it will then be editable.





Standalone Scheduler Tasks

Figure 2-11 Standalone Scheduler Tasks Window



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

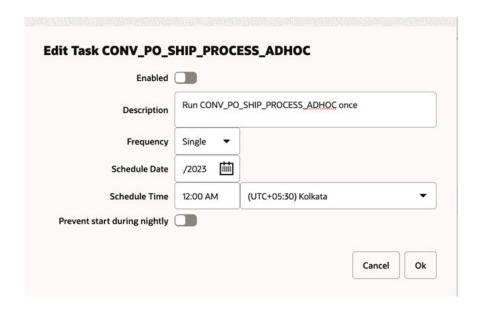
Next Run In – Displays the time remaining until the next run.

Time Zone

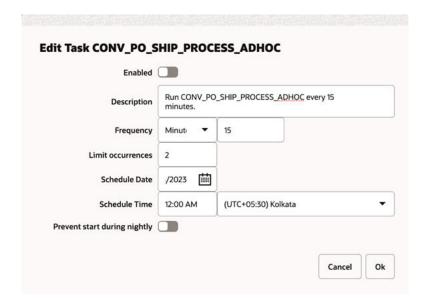
Click **Done** or the close window icon (X) to close the window.

See <u>Table Menu Options</u> in <u>Common User Interface Controls</u> 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.







(i) Note

If the time is left blank for a standalone task, it will execute immediately upon clicking \mathbf{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

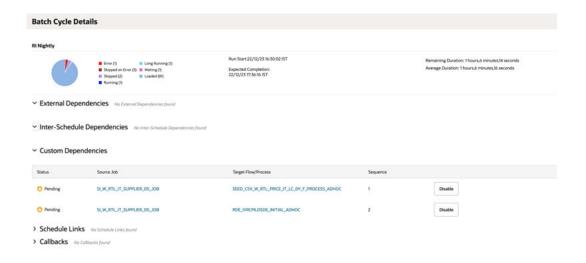
This section displays the following information about each task execution:

- 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 <u>Table Menu Options</u> in <u>Common User Interface Controls</u> for information about the options available in this section.



Batch Cycle Details Screen



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:



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

- Run Start
- Expected Completion



- Remaining Duration
- Average Duration

External Dependencies



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 <u>Batch Job Details</u> 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



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 <u>Batch Job Details</u> screen.
- Target Job Click to open the job in the <u>Batch Job Details</u> 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.



Custom Dependencies



A Custom Dependency includes entities (processes/flows) that execute prior to the current job in Nightly or Recurring cycles where the dependency is placed. Once the dependency completes successfully, the nightly or recurring job is triggered.



Custom Dependency is not applicable for Standalone/Adhoc jobs.

The following information is displayed for each custom dependency link:

- Status Pending or Complete
- Target Flows/Process List of Adhoc Flows or Processes based on the Target Entity selection.
- Sequence The sequence of execution of the target flow/process.

Schedule Links



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 <u>Batch Job Details</u> 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 <u>Batch Job Details</u> 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

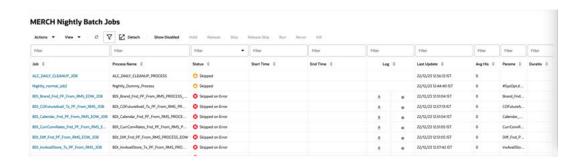


The Callbacks section lists all the external status update request and response callbacks based on the External Status Update mode set in the External System Configuration screen.

The following information is displayed for each callback:

- Status
- Job Click to open the job in the <u>Batch Job Details</u> screen.
- Process Process containing the job.
- Date of callback
- A Payload link to display the <u>Callback Payload Window</u> 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



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 + Long Running Tolerance Level. The value for the Long Running Tolerance Level can be overridden by changing the value of batch schedule variable defaultLongRunningToleranceLevel on the System Options screen accessed from the System Configuration screen. The value is in seconds.

For example, if a job's average run time is 3 minutes, and the Long Run Average Time Multiplier is 3, and the Long Running Tolerance Level is 6 minutes, then the job is considered long running if it has been running for at least 15 minutes. A notification is sent when a job is deemed long running.

If the **Threshold Run Time** field for a job is 0 or blank, and there is no history of job run, the job will be considered long-running when its run time exceeds the default long running threshold run time of 10 minutes. This default value can be overridden by changing the value of batch schedule variable

defaultLongRunningThresholdRunTime on the System Options screen accessed from the System Configuration screen. The value is in seconds.

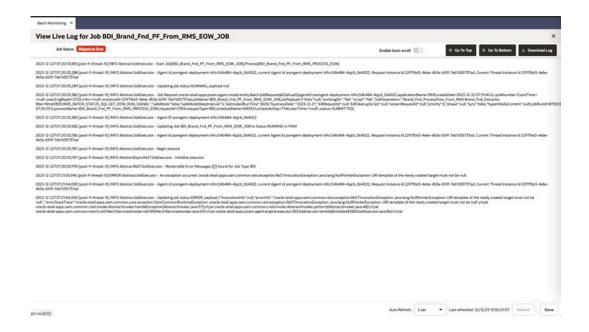
- Disabled Job was disabled by an administrator on the <u>Batch Administration</u> screen.
- System Held Job was placed on hold by the system due to a lack of resources to run it.
- Skipped on Error Job was preconfigured to be skipped on a failure.
- Waiting Job is waiting for completion of pre-dependencies (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. There's also a 'View Live Log' icon which when clicked will show the streaming log.
- Job Description
- Start Time
- End Time
- Duration



- Average Run Time
- Average Historical Run Time
- Number of Runs
- Error Source
- Waiting
- Waiting Reasons

View Live Log

The View Live Log window displays the live log of the running jobs.



The following options are seen in the window.

- Enable Auto-scroll When this switch is turned on, the log auto scrolls to view the next page.
- Go to Top Scroll to the top of the page.
- Go to Bottom Scroll to the bottom of the page.
- Download Log Downloads and displays the content of the log.
- Auto Refresh (Footer) Live log refresh interval.

Action Menu and Icons

See <u>Action Menu and Icons</u> 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 Actions > Run or the Run button to run the job manually and immediately.
	Run is disabled for both Nightly and Recurring Cycles but jobs from both of the cycles can be run from AMS Utilities > Manual Job Run menu.
Rerun	Use the Actions > Rerun or the Rerun button to run the job again.
Kill	Use the Action>kill or the Kill button to stop the execution of the job.
	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.
	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.
	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.
	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.
Edit Parameters	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.

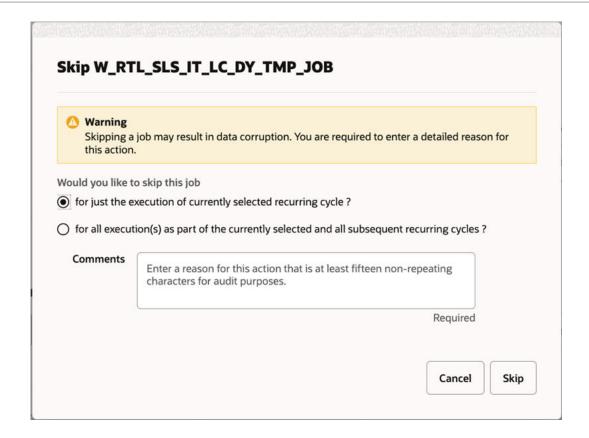
View Menu

See View Menu for information about the options in the View menu.

Skip Recurring Flow(s)

A job in a recurring flow can be skipped by selecting the job and clicking the **Skip** button in the table toolbar. The confirmation pop up (below) opens asking the user if the job should to be skipped for the currently selected recurring cycle or for this and all subsequent recurring cycles as well.

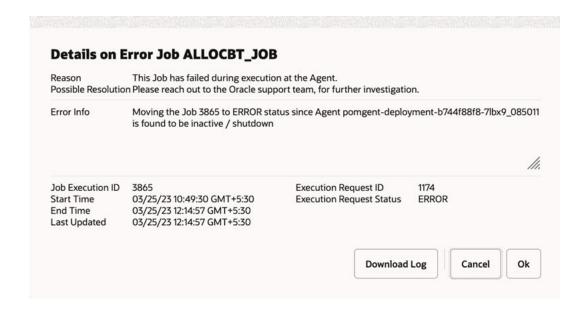




Refer <u>Skip Recurring Flow(s)</u> under "AMS Utilities" to skip an entire flow in one or more hourly cycle(s).

Status Details for Job

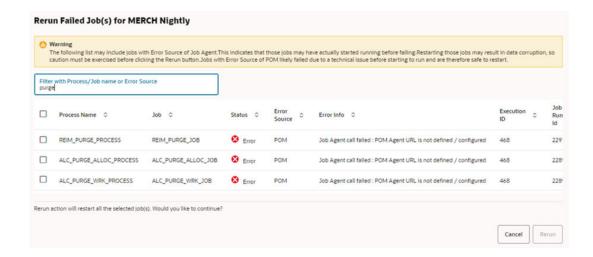
Certain status values on the Batch Jobs section such as 'Error' or 'Long Running' act as a link. When clicked a popup is displayed containing more details about why the job is in the given status and helpful suggestions for resolving the issue. An example is shown below for a job in error.





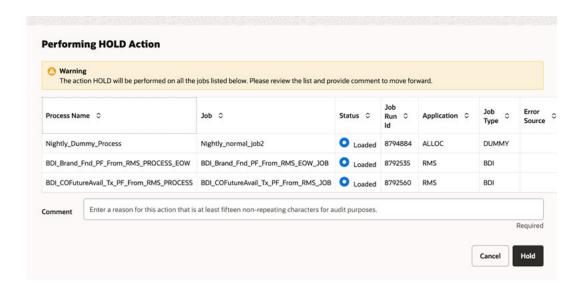
Rerun Multiple Jobs

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



Multi-Select Jobs

Multiple jobs can be selected on the Batch Monitoring table and all actions like Run, Rerun, Hold, Skip, Kill, and so on can be performed on the selected jobs. The pop-up window below opens for every action performed, asking the user to enter a comment before performing the action.

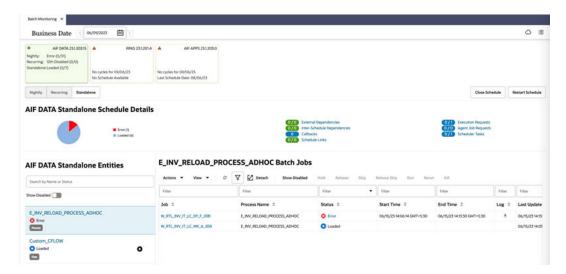


Standalone Batch Jobs

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 invokable by entering a search term and clicking Enter. An invokable 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
 - _ C

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 <u>Nightly and Recurring Batch Jobs</u> section above.



Action Menu and Icons

See <u>Table Menu Options</u> in <u>Common User Interface Controls</u> 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

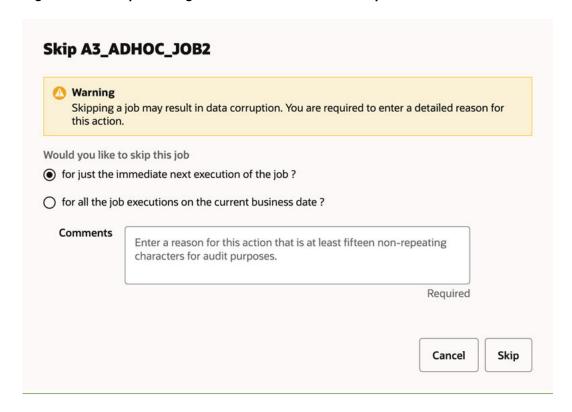
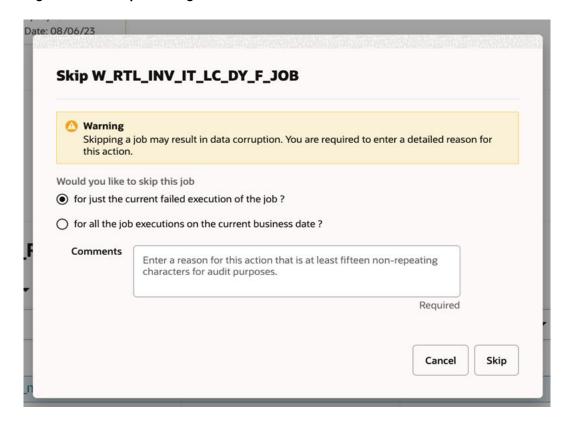


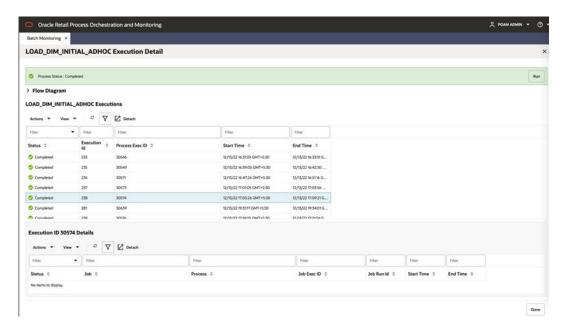


Figure 2-14 Skip Warning – Job is in 'Error' status



Standalone Execution Details

Figure 2-15 Standalone Executions



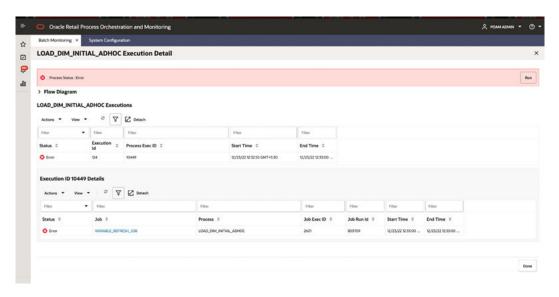


Clicking on a flow/process link from the left panel of the Standalone Entities table opens a new modal window displaying the Batch Execution details. The following information is displayed about each execution.

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 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

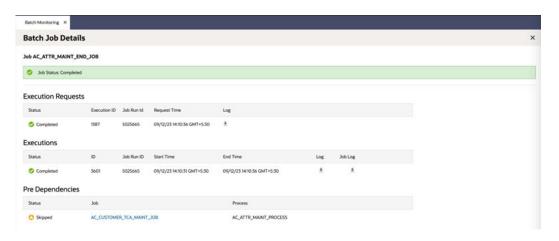




Figure 2-18 Batch Job Details - Continued

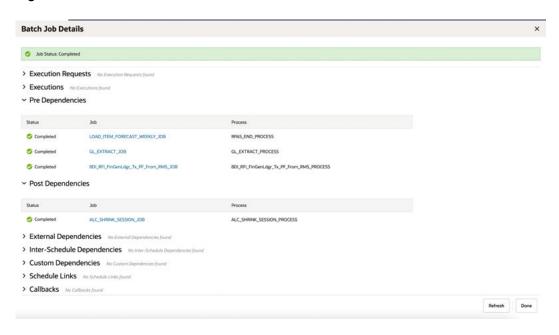
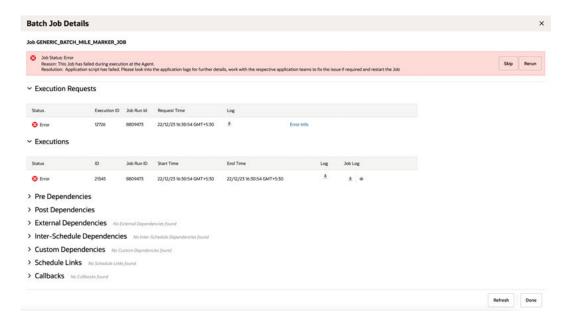


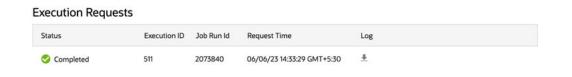
Figure 2-19 Batch Job Details with Status Information



Execution Requests







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

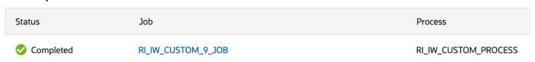


If the job was executed, this section displays the following information about the job execution:

- 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



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

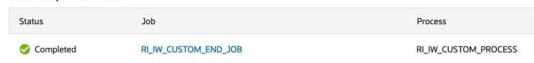
Status



- Job Click to open the job in the <u>Batch Job Details</u> screen.
- Process
- A Disable/Enable button is available for jobs that have not yet completed.

Post Dependencies

Post Dependencies

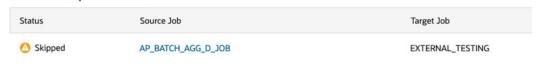


This section displays the following information about job post-dependencies:

- Status
- Job Click to open the job in the <u>Batch Job Details</u> screen.
- Process
- A Disable/Enable button is available for jobs that have not yet completed.

External Dependencies

External Dependencies



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 <u>Batch Job Details</u> 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





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 <u>Batch Job Details</u> 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



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

- Status
- Job Click to open the job in the <u>Batch Job Details</u> 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



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 <u>Batch Job Details</u> screen.
- Process
- A Payload link to display the Callback Payload Window for the callback.

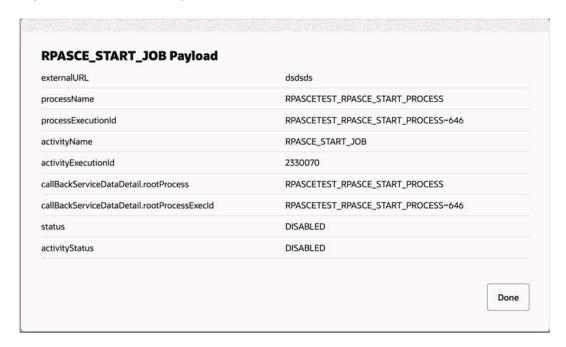


- An Info link to display the <u>Callback Info Window</u> describing the callback response.
- A Retry button is available for callbacks with a Skipped or Failed status.

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



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





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.

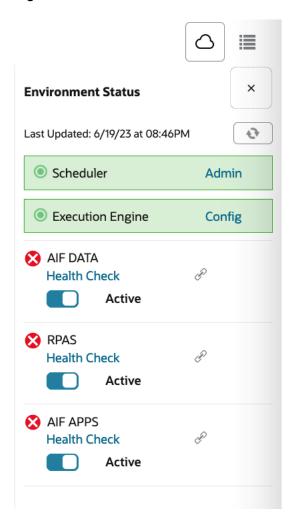
Status

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 <u>Scheduler Administration</u> window.

Execution Engine

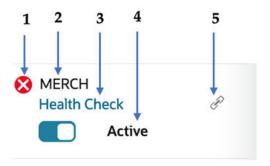
Displays the status of the execution engine, and a **Config** show configuration of the execution engine in <u>Execution Engine Configuration</u>.

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.

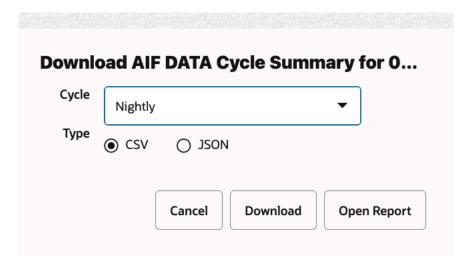
Download Cycle Summary

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

1. Click **Download Cycle Summary** in the <u>Batch Jobs Header</u>.

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**.
- 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.

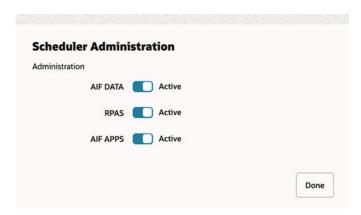
Scheduler Administration Window

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

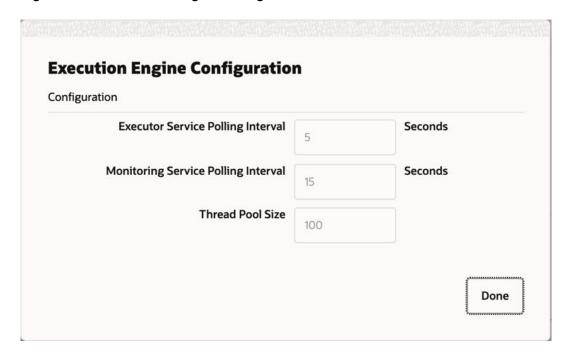
The Execution Engine Configuration window displays configuration of communication between the user interface and the execution engine.

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

This window displays the following configurations:



Figure 2-26 Execution Engine Configuration Window



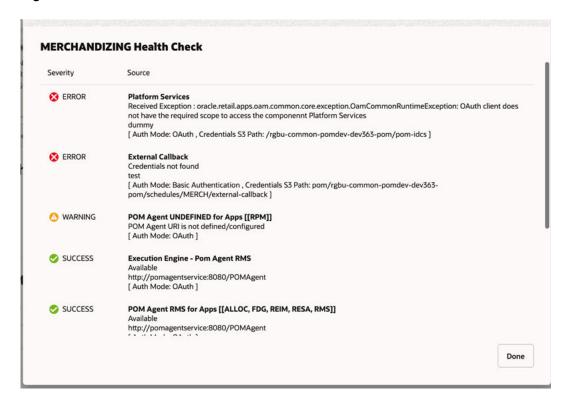
- **Executor Service Polling Interval** Determines the number of seconds between each polling interval for the batch execution process on Process Orchestration and Monitoring.
- Monitoring Service Polling Interval Determines the number of seconds between each polling interval for the monitoring process 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.



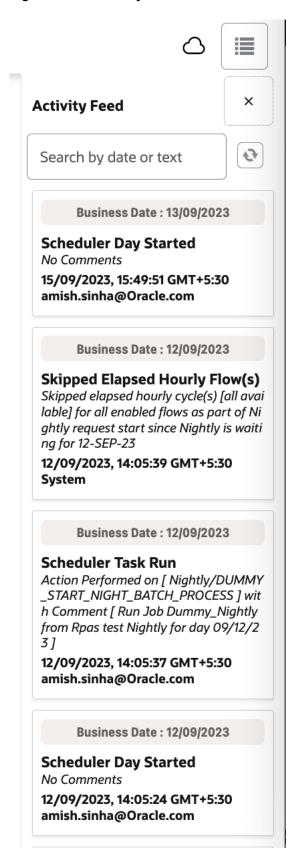


When the icon is clicked, the Activity Feed panel opens on the right side of the screen. The panel displays up to seven days' worth of activities performed both by the system and by users through the user interface.

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



Figure 2-28 Activity Feed



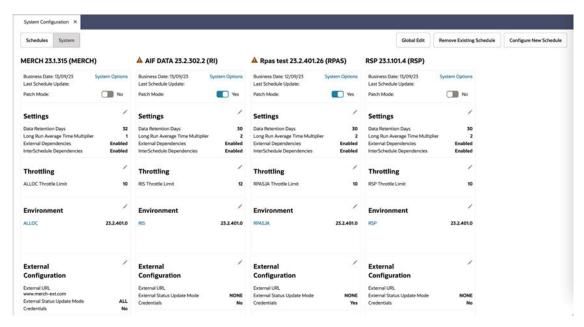


System Configuration

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 <u>Navigation Area</u> 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



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 <u>System Configuration</u> screen. The Configure New Schedule window is displayed.



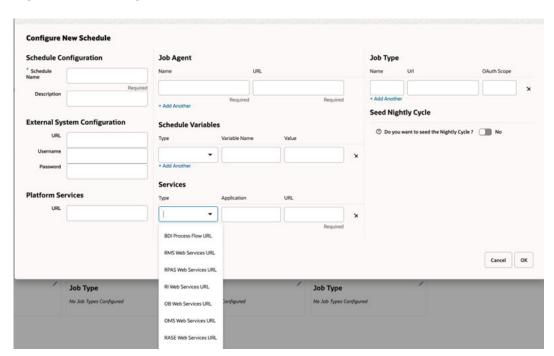


Figure 2-30 Configure New Schedule

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. The
 Schedule Name must be 10 characters or less
 - 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



(i) 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.
- 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
- Seed Nightly Cycle (Optional) This is an optional section to auto-seed the nightly jobs in the new schedule. Entering a Schedule Name and turning on this switch creates a basic batch schedule by seeding the Nightly cycle with default start and end jobs.

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).



(i) Note

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

Business Date: 23/06/23 Last Schedule Update:

System Options

- 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:

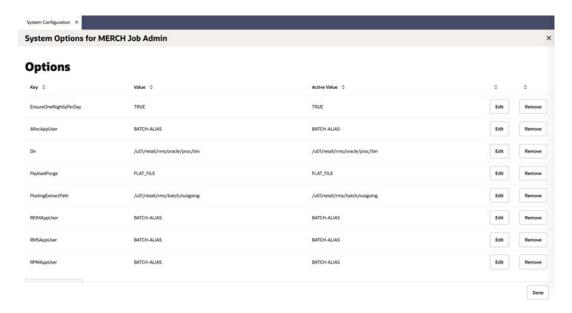
- **Last Schedule Update** Last date on which the schedule was updated.
- Patch Mode Enable/disable the patch mode to activate/cancel a patch respectively. This switch is turned on when the POM application or an individual schedule is in the process of being patched. In this case, POM will block any 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.
- Patch Source Multiple applications can now put a Batch Schedule in patch mode, when needing to pause batch to upgrade their schedule or for other reasons. Patch source will show all the source systems that have put the schedule in patch mode, put the schedule in patch mode.

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

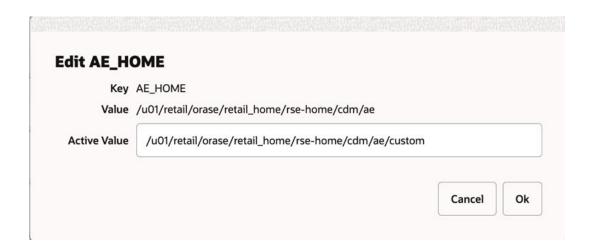


The system options are a set of key-value pair of attributes and values specific to the given schedule such as location of directories or throttle enabling setting. System options can also be used to define shell script warning or error exit codes. If any such codes are specified, they will cause a shell-script-based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



- Data Retention Days
- Long Run Average Time Multiplier
- External Dependencies
- InterSchedule Dependencies
- Throttling See <u>Edit Throttling</u> for details.

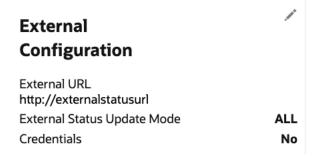


- Job Agent Throttle Limit
- Environment See Edit Environment for details.

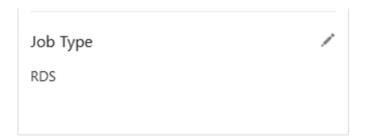


- Job Agent name (for example, RPASCE). This also acts as a link which, when clicked, opens the <u>Job Agent Configuration Window</u>.
- Job Agent version
- External Configuration See Edit External Configuration for details.





- External URL
- External Status Update Mode
- Credentials
- Job Type See <u>Create / Edit Job Type</u> for details.



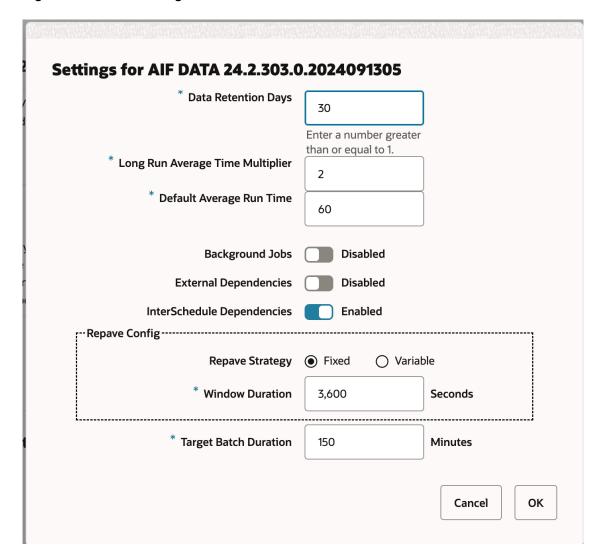
Job Type - For example, RDS.

Edit Settings

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



Figure 2-32 Edit Settings Window



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 + Long Running Tolerance Level. The value for the Long Running Tolerance Level can be overridden by changing the value of batch schedule



variable defaultLongRunningToleranceLevel on the System Options screen accessed from the System Configuration screen. The value is in seconds.

For example, if a job's average run time is 3 minutes, and the Long Run Average Time Multiplier is 3, and the Long Running Tolerance Level is 6 minutes, then the job is considered long running if it has been running for at least 15 minutes. A notification is sent when a job is deemed long running.

If the Threshold Run Time field for a job is 0 or blank, and there is no history of job runs, a job will be considered long-running when its run time exceeds the default long running threshold run time of 10 minutes. This default value can be overridden by changing the value of batch schedule variable defaultLongRunningThresholdRunTime on the System Options screen accessed from the System Configuration screen. The value is in seconds.

- Default Average Time Used instead of multiplying a job's average run time by the Multiplier (defined 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 Repaying is upcoming. For example, say a node's repaying 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.
- 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.

(i) 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.

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



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.



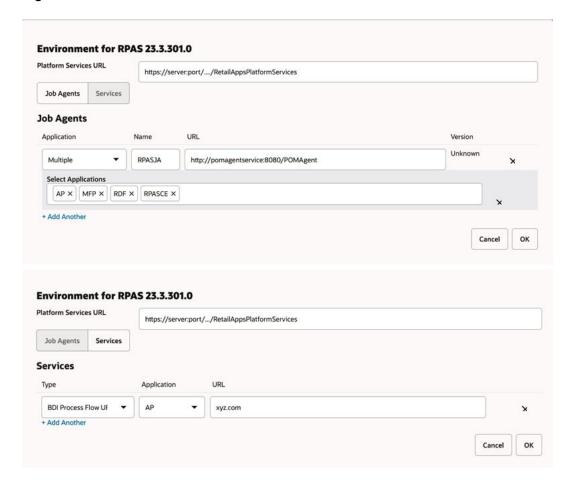
(i) Note

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



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

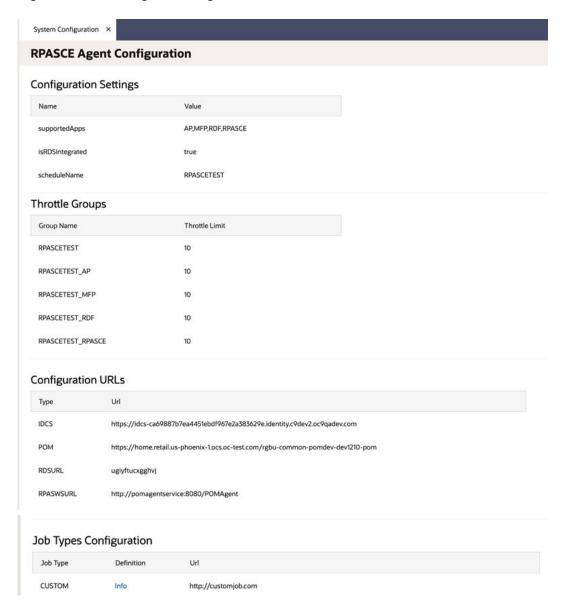
The Job Agent Configuration window displays configuration information about the selected Agent.



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



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 <u>System Configuration</u> 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 <u>System Configuration</u> 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. The ReST service call for External Status Update (Callback) allows both Basic Auth and OAuth2.

Figure 2-36 Edit External Configuration Window - Basic

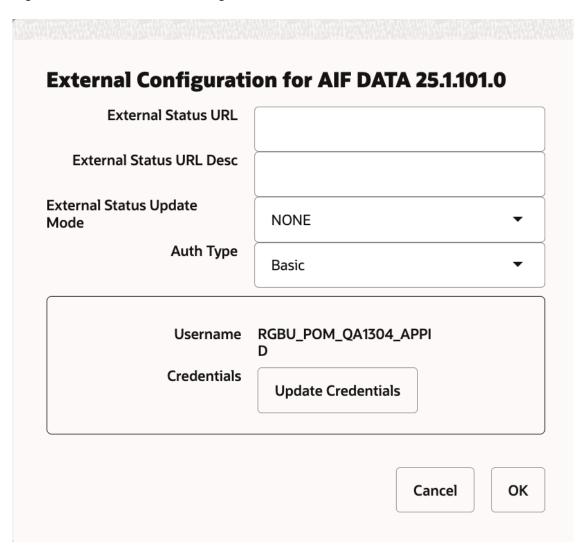
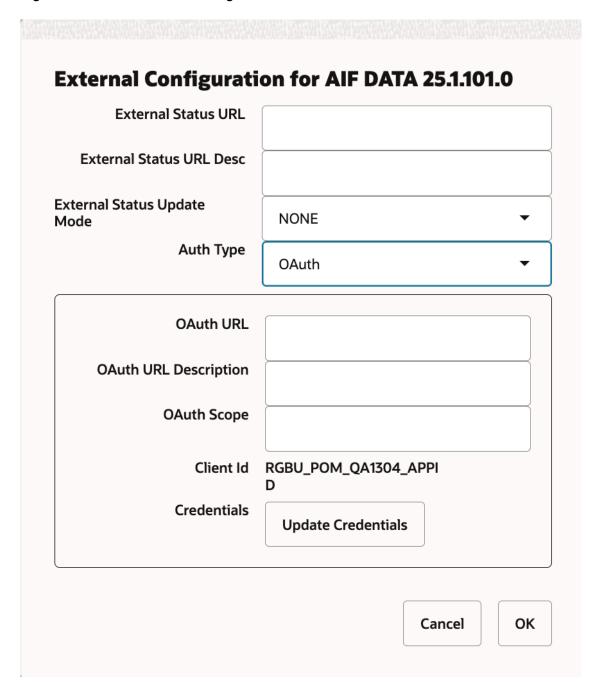




Figure 2-37 Edit External Configuration Window - OAuth



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 URL Description An optional description of the external system's URL.
- 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.
- Auth Type The authentication type to use for the external callback URL. The value can be OAuth or Basic.
- OAuth URL The URL to obtain the token from the authentication provider. This is only required for Auth Type of OAuth.
- OAuth URL Description The description of the authentication provider. This is an
 optional field and only available for Auth Type of OAuth.
- OAuth Scope The scope to request for the token from the authentication provider. This is only required for Auth Type of OAuth.
- **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 2-38 Job Types Table



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 \square 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 2-39 Create Job Type – Using System Default OAuth Credentials

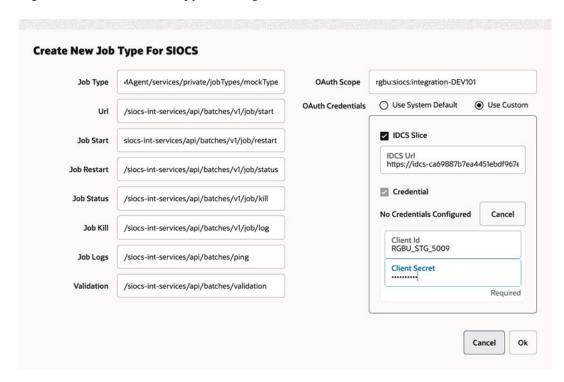




Create New Job Type For SIOCS Job Type AAgent/services/private/jobTypes/mockType **OAuth Scope** rgbu:siocs:integration-DEV101 **OAuth Credentials** O Use System Default Use Custom Url /siocs-int-services/api/batches/v1/job/start **☑** IDCS Slice Job Start siocs-int-services/api/batches/v1/job/restart IDCS Url ı383629e.identity.c9dev2.oc9qadev.com Job Restart /siocs-int-services/api/batches/v1/job/status Credential Job Status /siocs-int-services/api/batches/v1/iob/kill No Credentials Configured Create Job Kill /siocs-int-services/api/batches/v1/job/log Job Logs /siocs-int-services/api/batches/ping Validation /siocs-int-services/api/batches/validation Cancel Ok

Figure 2-40 Create Job Type – Using Custom OAuth Credentials – IDCS URL

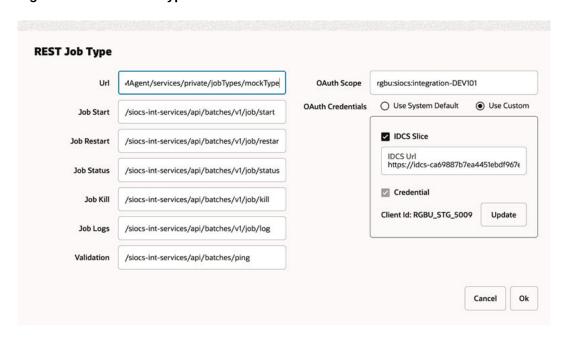
Figure 2-41 Create Job Type – Using Custom OAuth Credentials – Client ID and Secret



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



Figure 2-42 Edit Job Type



(i) Note

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

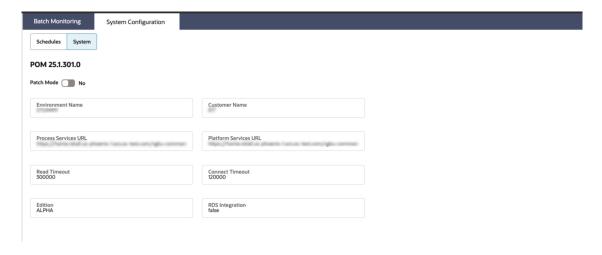
Select **OK** to save the changes or select **Cancel** to exit the window without saving changes.

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 2-43 System Information Screen

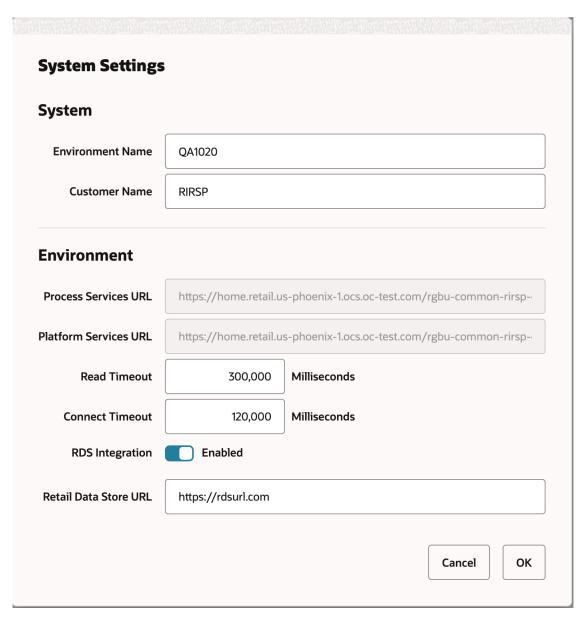




Edit System Settings

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 2-44 Edit System Settings Window



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.



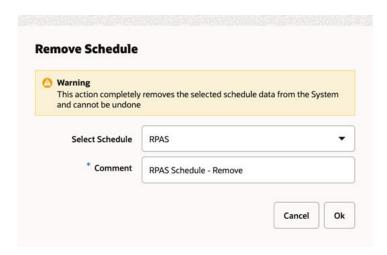
- Read Timeout This field sets an execution time limit on network calls made by POM.
 The default is 300000 milliseconds (5 mins). Although the field has no on-screen validation, the maximum timeout is bound by the Load Balancer maximum configuration for ReST endpoints, which at this time is 300000 milliseconds (5 mins).
- Connect Timeout This field sets the connection establishment time limit on network calls made by POM. The default is 120000 milliseconds (2 mins). Although the field has no on-screen validation, the maximum timeout is bound by the Load Balancer maximum configuration for ReST endpoints, which at this time is 300000 milliseconds (5 mins).
- 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. It can be updated only when the RDS Integration switch is enabled.

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 2-45 Remove Schedule Screen

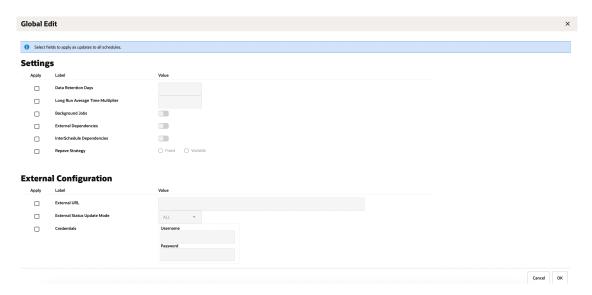


Global Edit

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 2-46 Global Edit Screen



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

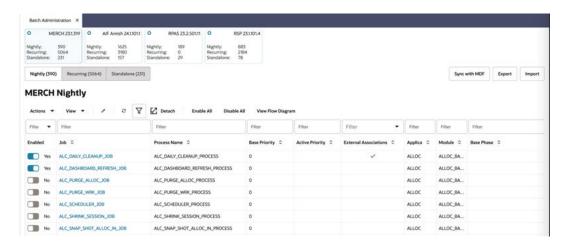
Batch Administration

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 2-47 Batch Administration



Batch Administration Header

The Batch Administration header includes the following options:

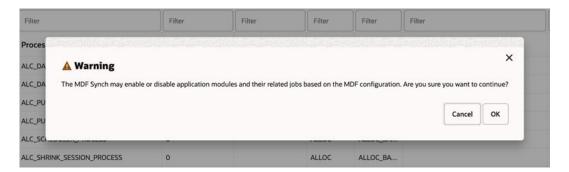
- Batch Tiles There is a batch tile for each software environment Process Orchestration and Management connects to. Select a tile to show the batch processes for that environment. See <u>Batch Tiles</u> for more information about these tiles.
- 2. **Cycle Tabs** Displays the cycles for which batch information 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 2-48 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
 ]
}
```

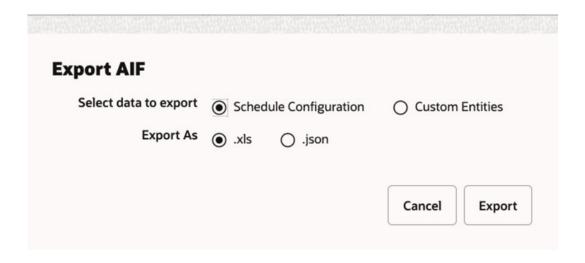
Also, the status of the updated jobs is changed to either 'Loaded' or 'Disabled' based on the module activation/deactivation in Retail Home's Customer Modules Management.

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.

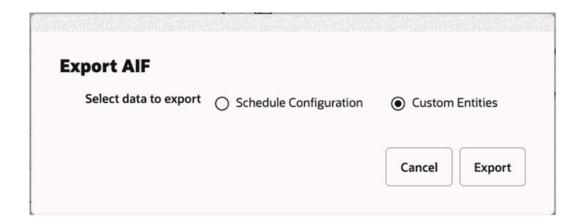
When clicked, the user is presented with a dialog for selecting the data to export – **Schedule Configuration** or **Custom Entities**.

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



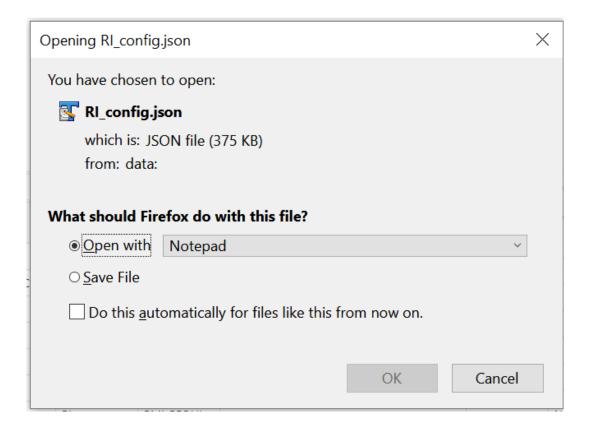


Custom Entities can only be exported as JSON.



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.





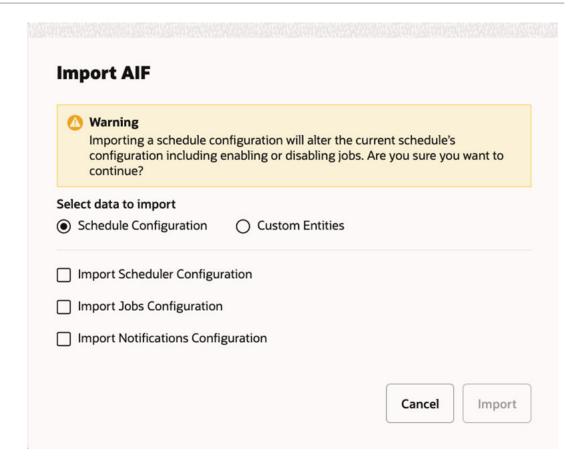
If the export is done for the purpose of applying the same configurations on another environment (Lift & Shift), the user is recommended to export to a JSON file. This file is then used in the Import Config function (explained below) to import the configurations into another environment.

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.

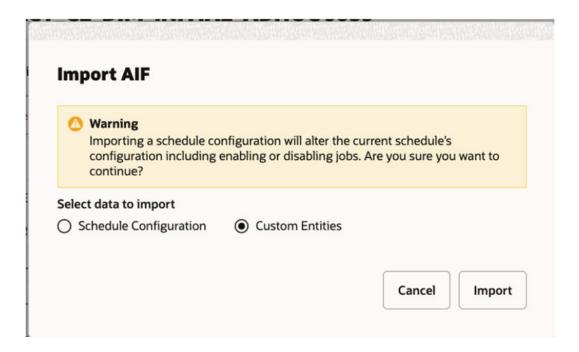
5. **Import** - Use this button to import Schedule Configuration or Custom Entities for the selected schedule and cycle. When clicked, the user is presented with a dialog to select the desired type of data to import – **Schedule Configuration** or **Custom Entities**. See Export above for a brief explanation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





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.

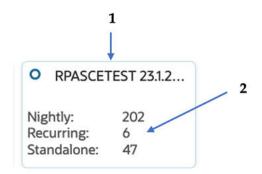


Batch Tiles

Each tile displays the following information:



Figure 2-49 Batch Tile



- 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 <u>Action Menu and Icons</u> 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.

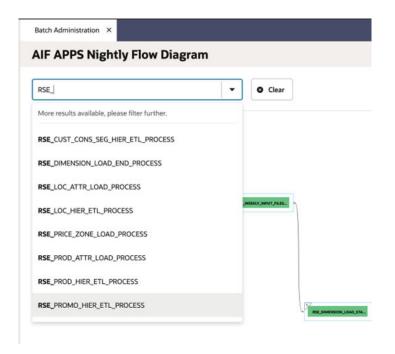
Figure 2-50 Flow Diagram

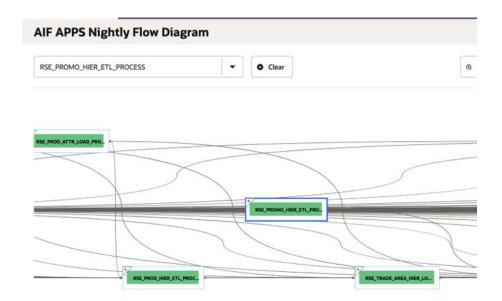


Filter by Process Name

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



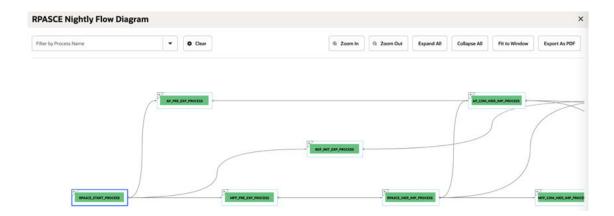




Zoom In

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



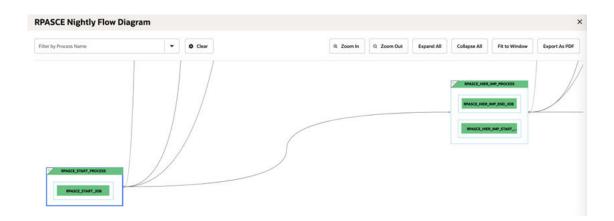


Zoom Out

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.



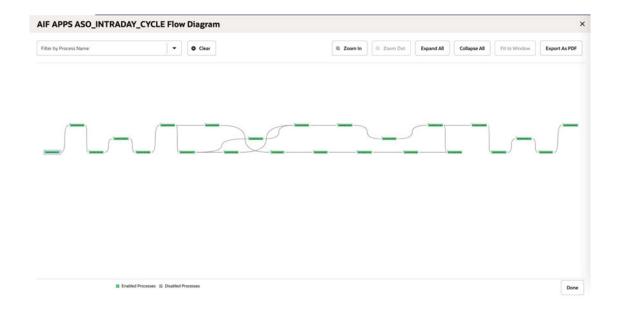
Collapse All

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

Fit to Window

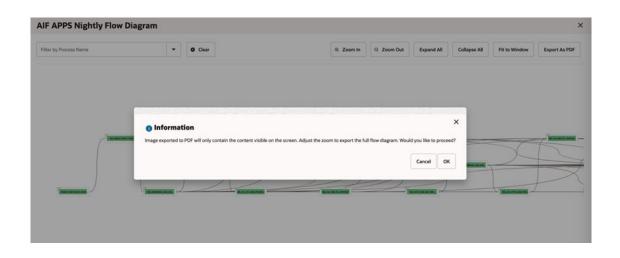
Fit to Window fits the complete Flow Diagram in the browser window.

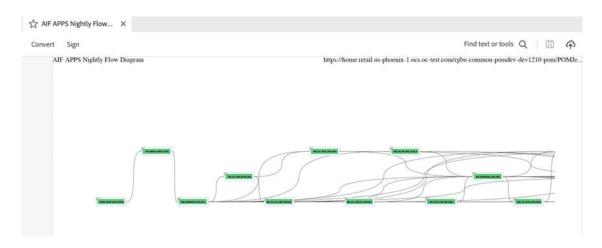




Export as PDF

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

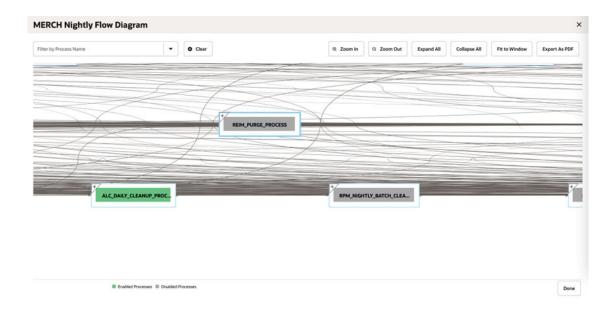






Enabled / Disabled Process

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.

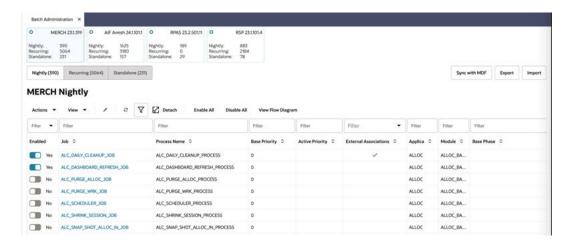


Nightly

The nightly cycle displays the following information for each batch:



Figure 2-51 Nightly Batch List



- 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.
- External Associations Indicates with a checkmark whether the job is associated with any
 enabled external association such as Custom Dependency, Inter-Schedule Dependency,
 Schedule Link and External Dependency. The batch list table can also be filtered based on
 the External Associations using the Filter dropdown in the column.
- 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 + Long Running Tolerance Level. The value for the Long Running Tolerance Level can be overridden by changing the value of batch schedule variable defaultLongRunningToleranceLevel on the System Options screen accessed from the System Configuration screen. The value is in seconds.

For example, if a job's average run time is 3 minutes, and the Long Run Average Time Multiplier is 3, and the Long Running Tolerance Level is 6 minutes, then the job is considered long running if it has been running for at least 15 minutes. A notification is sent when a job is deemed long running.

If the Threshold Run Time field for a job is 0 or blank, and there is no history of job runs, the job will be considered long-running when its run time exceeds the default long running threshold run time of 10 minutes. This default value can be overridden by changing the value of batch schedule variable **defaultLongRunningThresholdRunTime** on the System Options screen accessed from the System Configuration screen. The value is in seconds.

- 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 2-52 Edit Nightly Batch Window for One Job

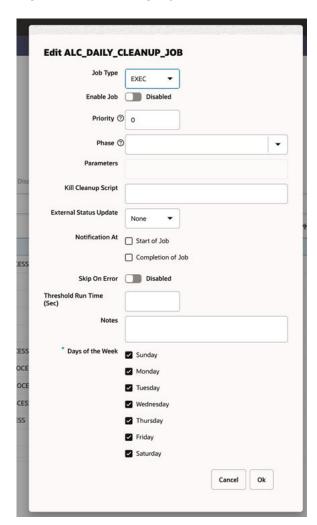




Figure 2-53

Edit Job(s)

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

Edit Nightly Batch Window for Multiple Jobs

Enabled ② Skip On Error Priority ③ Phase (?) Start of Job **Notification At** Completion of Job Threshold Run Time (Sec) **External Status** None Update Sunday Days of the ■ Monday Tuesday ☐ Wednesday Thursday Friday Saturday Cancel Ok

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. Unlike all other job types, jobs with an RDS job type run synchronously and therefore have a max execution limit of 5 minutes. This limit is configurable on the System Configuration screen.



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 + Long Running Tolerance Level. The value for the Long Running Tolerance Level can be overridden by changing the value of batch schedule variable defaultLongRunningToleranceLevel on the System Options screen accessed from the System Configuration screen. The value is in seconds.

For example, if a job's average run time is 3 minutes, and the Long Run Average Time Multiplier is 3, and the Long Running Tolerance Level is 6 minutes, then the job is considered long running if it has been running for at least 15 minutes. A notification is sent when a job is deemed long running.

If the Threshold Run Time field for a job is 0 or blank and there is no history of job runs, the job will be considered long running when its run time exceeds the default long running threshold run time of 10 minutes. This default value can be overridden by changing the value of batch schedule variable **defaultLongRunningThresholdRunTime** on the System Options screen accessed from the System Configuration screen. The value is in seconds.

- Notes
- Days of the Week Days of the week for which the job is to be run.

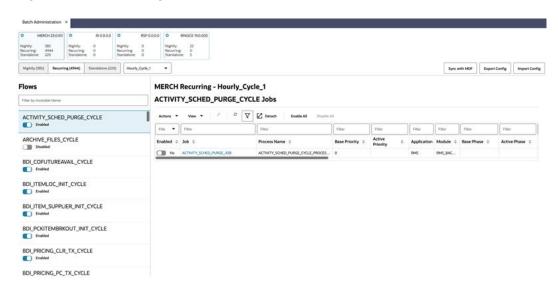


Recurring

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 2-54 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 <u>Batch Job Details</u> screen.
 - Process Name
 - Base Priority
 - Active Priority
 - Application
 - Module
 - Base Phase
 - Active Phase
 - Parameters
 - Active Parameter



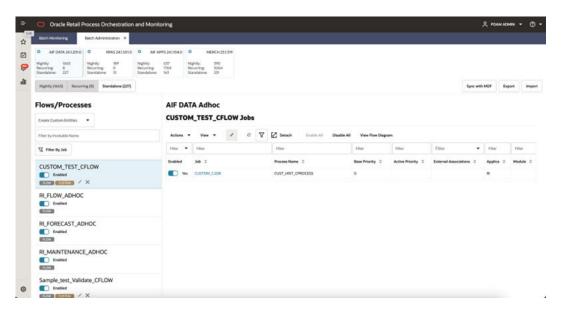
- Job Type Job Type of 'EXEC' Indicates that the job executable is shell script based.
 All other job types, such as 'BDI', 'RI', and so on, indicate that the job is service-based.
 Service-based job types require different configurations than shell-script based.
- Kill Cleanup Script Name of a script 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 <u>Nightly</u> 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 2-55 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.



- Filter by Job Search for invokable by entering job name or job-enabled value.
- Flows/Processes The following information is shown for each flow/process:
 - Flow/Process Name
 - Enabled or Disabled
 - Flow/Process Label

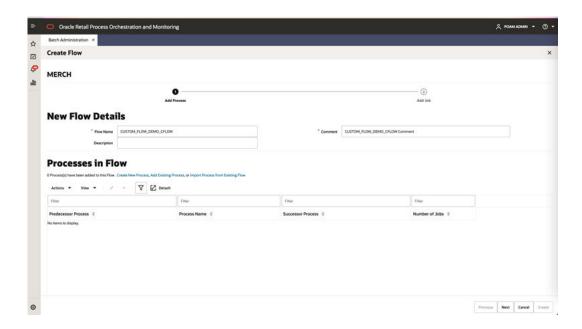
Right Pane of Screen

- Jobs Select an invokable (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:

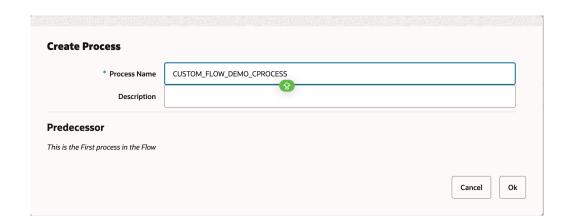
New Flow Details

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

Processes in Flow

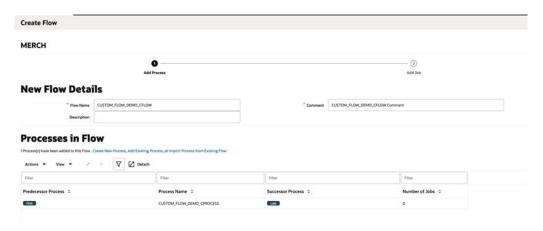
Processes can be added to the flow by either creating a new process or adding an existing process or importing processes from an existing flow.

Create New Process



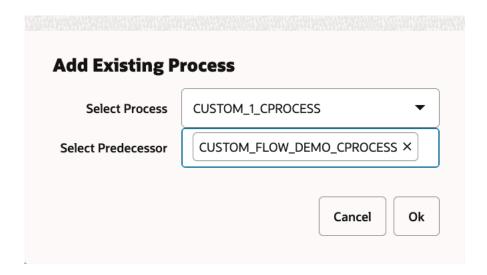
As this is the first process in the flow, the **Processes in Flow** field is populated with this process as shown below, marking it as the First and Last process.

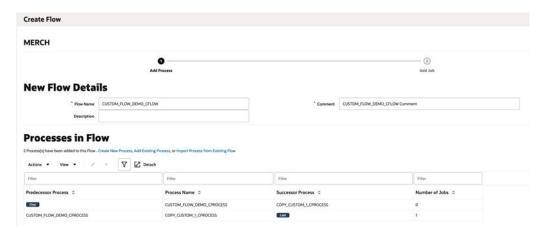




2. Add Existing Process

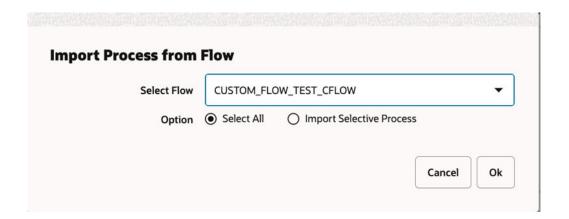
As we have already created the first process for the custom flow, the first process is the Predecessor for the next created process.



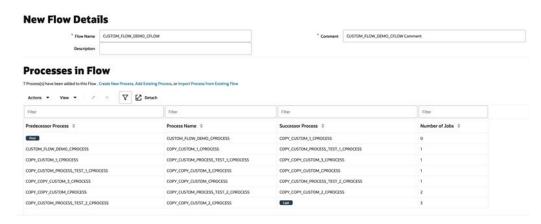


3. Import Process from Existing Flow – Select All



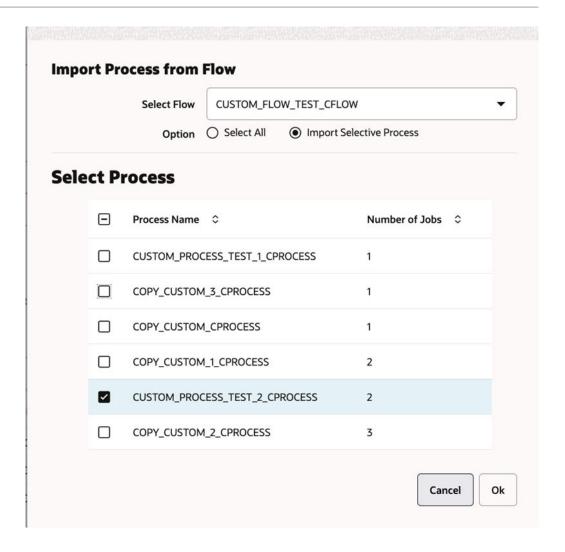


All processes from the selected flow are added.

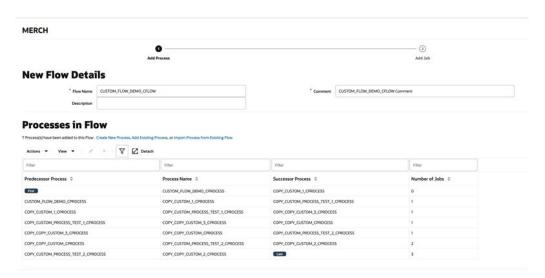


4. Import Process from Existing Flow – Import Selective Process





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

Figure 2-56 Create New Job – Job Type: EXEC

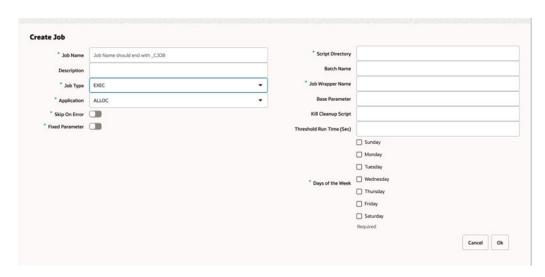
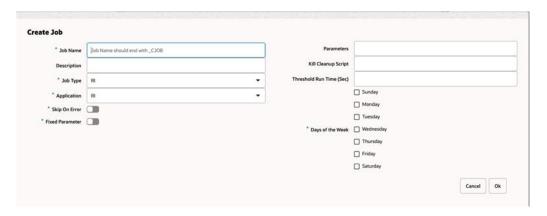


Figure 2-57 Create New Job – Job Type other than EXEC (For example, RI, RDS, BDI, and so on)



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.

Script Directory (Applicable only for EXEC Job Type)

Directory where the executable batch script is located.

Batch Name (Applicable only for EXEC Job Type)

The name of the batch script to be executed which is located within the Script Directory.

Job Wrapper Name (Applicable only for EXEC Job Type)

Name of the batch file that encloses the executable batch scripts.

Base Parameter

- * This holds the entire parameter value to be passed into the 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 + Long Running



Tolerance Level. The value for the Long Running Tolerance Level can be overridden by changing the value of batch schedule variable **defaultLongRunningToleranceLevel** on the System Options screen accessed from the System Configuration screen. The value is in seconds.

For example, if a job's average run time is 3 minutes, and the Long Run Average Time Multiplier is 3, and the Long Running Tolerance Level is 6 minutes, then the job is considered long running if it has been running for at least 15 minutes. A notification is sent when a job is deemed long running.

If the Threshold Run Time field for a job is 0 or blank and there is no history of job runs, the job will be considered long-running when its run time exceeds the default long running threshold run time of 10 minutes. This default value can be overridden by changing the value of batch schedule variable **defaultLongRunningThresholdRunTime** on the System Options screen accessed from the System Configuration screen. The value is in seconds.

2. Add Existing Job

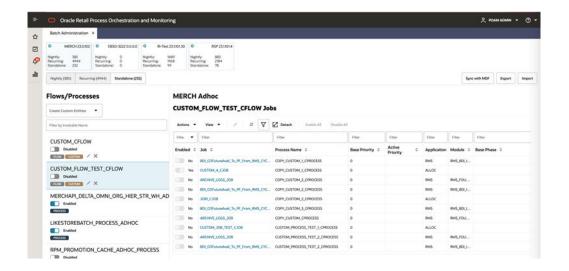


3. Import Job from Existing Process



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

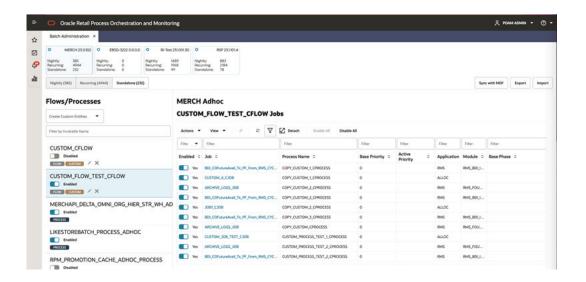




The custom flow and its jobs are created and displayed in the **Standalone** tab. A **Custom** tag is also seen along with the flow name in the left pane to indicate that it was a custom, user-created flow, as opposed to being seeded from the batch schedule spreadsheet.

Enable the Custom Flow

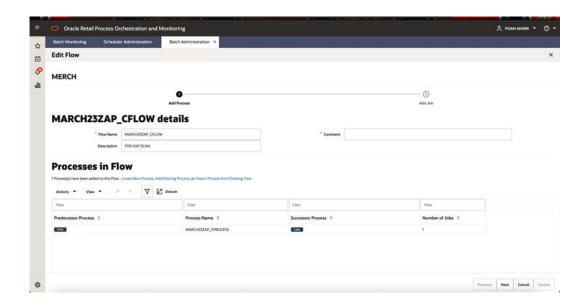
The custom flow is disabled by default and can be enabled by clicking the enable/disable switch. Enabling the Custom Flow also enables its batch jobs.



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.



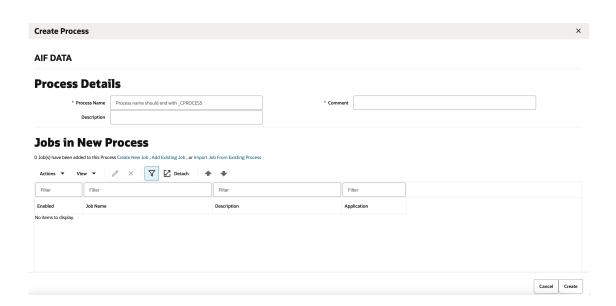


Delete the Custom Flow

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

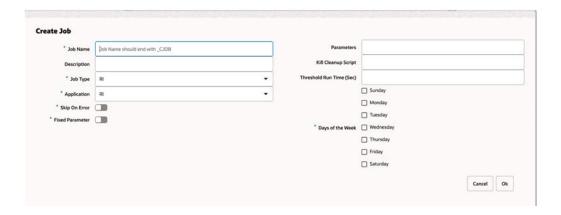


Description

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.
- * Note that, unlike all other job types, a job of job type RDS runs synchronously and therefore have an execution limit of 5 minutes. This limit is configurable 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 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 + Long Running Tolerance Level. The value for the Long Running Tolerance Level can be overridden by changing the value of batch schedule variable defaultLongRunningToleranceLevel on the System Options screen accessed from the System Configuration screen. The value is in seconds.

For example, if a job's average run time is 3 minutes, and the Long Run Average Time Multiplier is 3, and the Long Running Tolerance Level is 6 minutes, then the job is considered long running if it has been running for at least 15 minutes. A notification is sent when a job is deemed long running.

If the Threshold Run Time field for a job is 0 or blank and there is no history of job runs, the job will be considered long-running when its run time exceeds the default long running threshold run time of 10 minutes. This default value can be overridden by changing the value of batch schedule variable **defaultLongRunningThresholdRunTime** on the System Options screen accessed from the System Configuration screen. The value is in seconds.

2. Add Existing Job

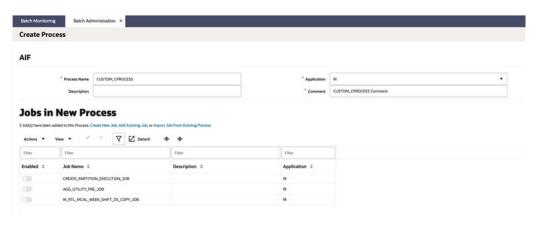


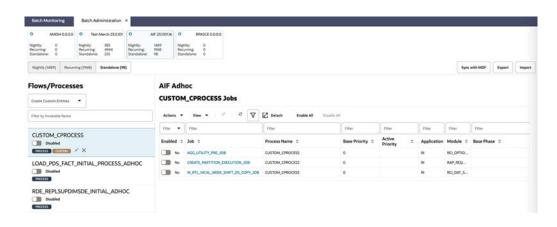


3. Import Job from Existing Process



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.



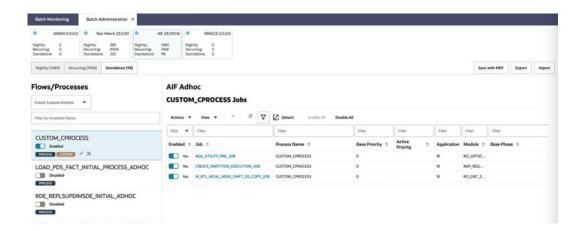




The custom process and its jobs are created and displayed in the **Standalone** tab. A CUSTOM tag is also seen along with the process name to indicate that it was a custom, user-created process.

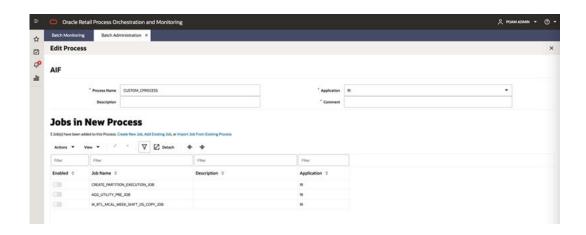
Enable the Custom Process

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

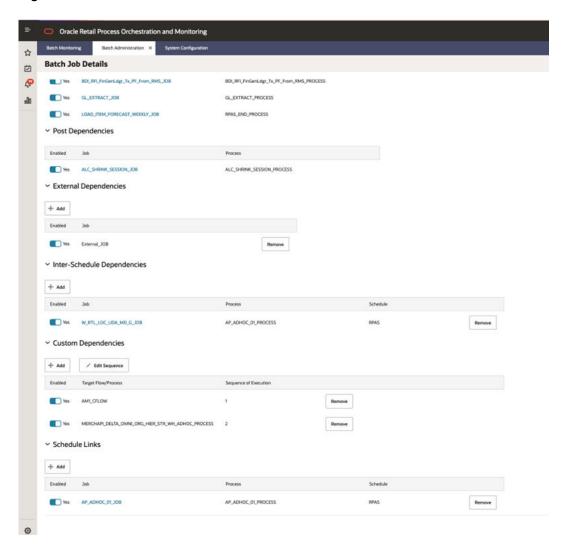
The Custom Process can be deleted by clicking the **Delete** icon below the flow name. For audit purposes, a comment is required when deleting a custom process.

Batch Job Details

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



Figure 2-58 Batch Job Details



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 interschedule 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.

Custom Dependencies

This section allows for the maintenance of the following information about a job's custom dependencies. A Custom Dependency is a dependency that includes entities (process/flow) that are executed prior to the current job in Nightly or Recurring cycles. The nightly or recurring job on which the dependency is placed is triggered once the dependency completes successfully.

- Target Entity Option to add either an Adhoc Flow or Adhoc Process
- Flows/Processes List of Adhoc Flows or Processes.
- An Edit Sequence button is available to set the sequence of execution for the added target flow/process.

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.

(i) 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 a="" of="" week=""> at the specified time</day>
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.

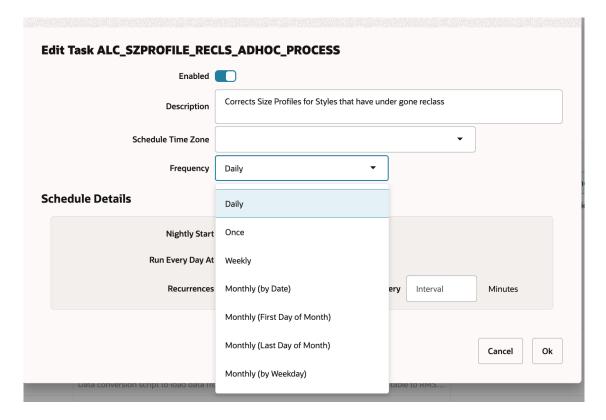
Recurrence	Description
Single	Will run just once at the time defined on the frequency
Multiple	Will run multiple times at regular intervals starting at the time defined on the frequency

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 2-59 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

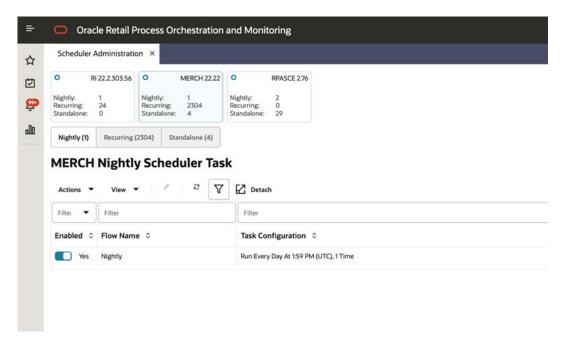
On the Scheduler Administration screen, the user selects a schedule tile at the top of the screen and the Nightly tab right below the tile area. The Nightly cycle's Scheduler task is shown in the tasks table of the figure below.



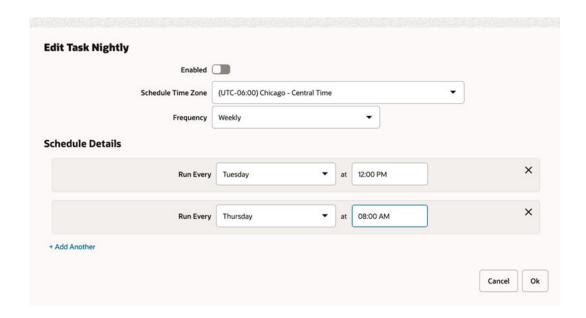
There is only one Nightly Scheduler task, as there is only one Nightly batch run.



Figure 2-60 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.

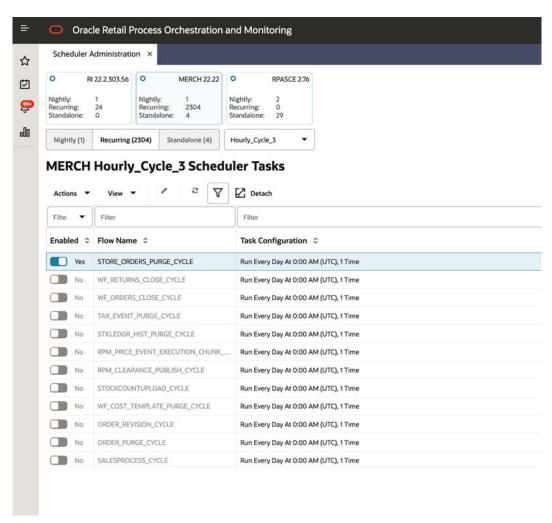


- Schedule Details Based on the Frequency selection, the Schedule Details refreshes accordingly:
 - Frequency: Daily 'Run Every Day At' <Time AM/PM>.Note that when using the Daily frequency, Nightly will run at the same time every day.
 - Frequency: Weekly 'Run Every' <Day of the week> 'at' <Time AM/PM>.Add 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

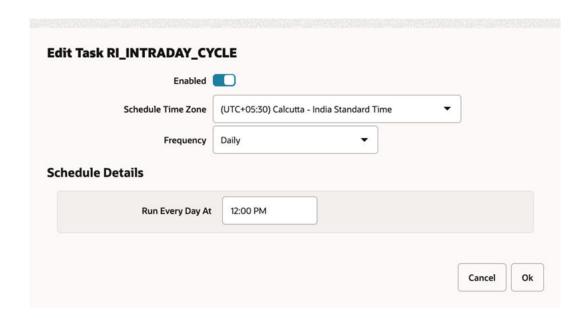
On the Scheduler Administration screen, the user selects a schedule tile at the top of the screen then the Recurring tab right below the tile area then the hourly flow from the drop down to the right of the Recurring tab. The Recurring flow's Scheduler tasks are shown in the tasks table.

Figure 2-61 Recurring Scheduler Tasks Administration





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:



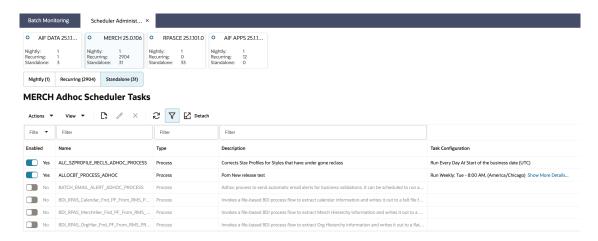
- Enabled/Disabled
- Scheduled Time Zone
- Frequency Possible values are: Daily, Once, Weekly, Monthly (By Date), Monthly (First Day of Month), Monthly (Last Day of Month), and Monthly (By Weekday). However, only the Daily frequency are feasible for the Recurring cycle.
- Schedule Details Based on the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

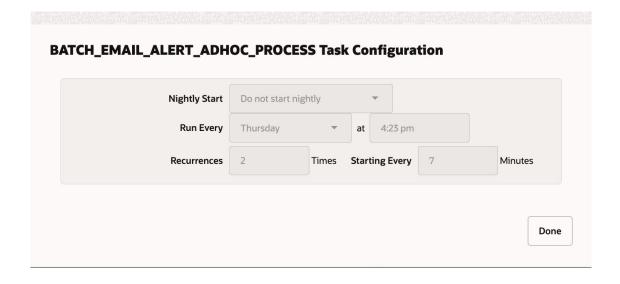
In the Scheduler Administration screen, the user selects a schedule tile at the top of the screen and the Standalone tab right below the tile area. The Standalone cycle's Scheduler tasks are shown in the tasks table sorted by name by default.



Figure 2-62 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.

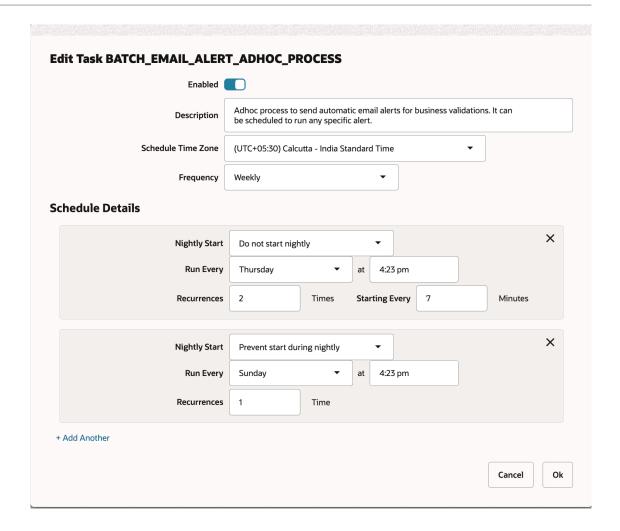
The user selects a task in the table, clicks the edit icon then edits the scheduler configuration in the Edit Task popup. The popup includes the following schedule information for the selected task:

The user can also create and delete Standalone scheduler tasks.



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.





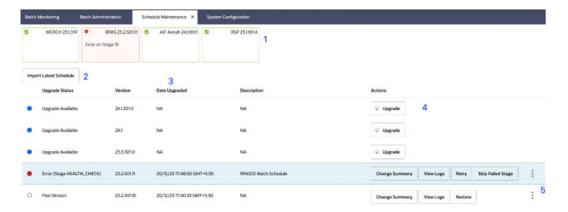
- Enabled/Disabled
- Scheduled Time Zone
- Frequency Possible values are: Daily, Once, Weekly, Monthly (By Date), Monthly (First Day of Month), Monthly (Last Day of Month), and Monthly (By Weekday).
- If the 'Recurrences' is more than 1, then 'Starting Every n Minutes' has to be specified.
- Schedule Details Based on the Frequency selection, the Schedule Details refreshes accordingly.
- Nightly Start This drop-down field has two possible options:
 - The **Prevent start during nightly** drop-down option prevents the task from running while the Nightly batch cycle is running. However, it won't stop a run that is in progress when the Nightly process starts.
 - The **Do not start nightly** drop-down option prevents the Nightly batch cycle from starting when the ad hoc request has arrived. It will also prevent the ad hoc job from starting when the Nightly process is running.

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 2-63 Schedule Maintenance Tab



- 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.
- 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

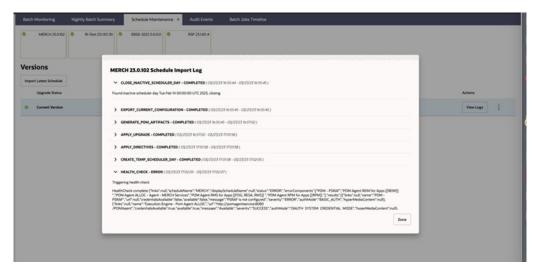
4. Actions

Change Summary - Use this button to view the schedule change summary. These are the changes that took place in the selected schedule upgrade compared to the previous version. These changes include entities added (Job, Process, Flow, Dependencies, External Assoc), entities removed, and entities modified. The latter include entities that are marked disabled because of having invalid seeded jobs. In other words, if a custom entity uses seeded jobs (from Oracle) that were removed as part of the latest schedule version, then the respective custom entities are marked disabled.





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).

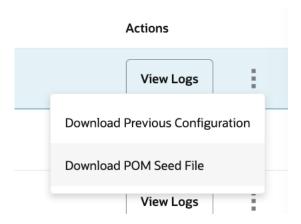


- **Upgrade** Use this button to upgrade the schedule. This button only appears for schedules for which an upgrade is available.
- Retry Use this button to retry a failed update. This button only appears for schedules
 that have not completed successfully. The retry will resume the upgrade from the failed
 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.

- 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.
- Restore Use this button to downgrade/restore to a previous version of the schedule.
- Download files menu Use this menu to download schedule files. See <u>Download Files</u> 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.

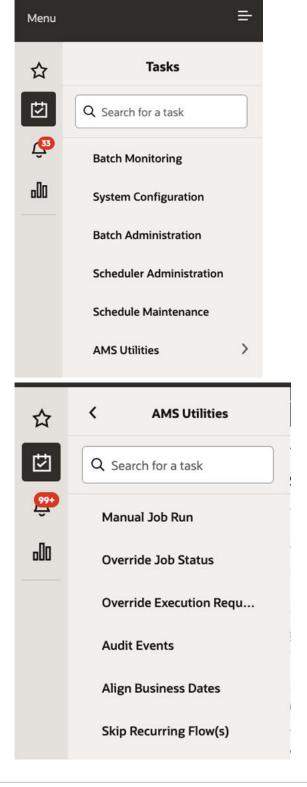
Last refreshed shows the time and date of the last refresh of the interface.



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
- Skip Recurring Flow(s)

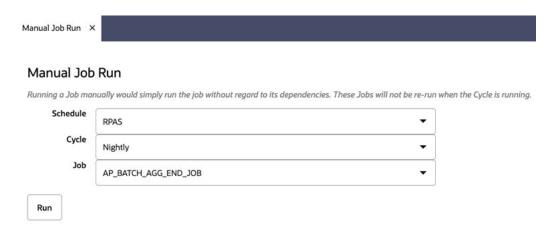
Manual Job Run

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.



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

Figure 2-64 Manual Job Run



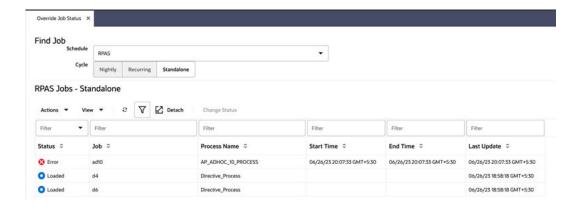
Override Job Status

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.

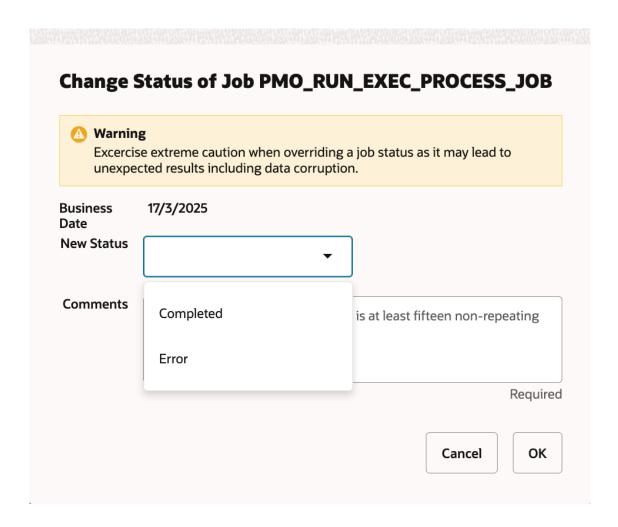


Figure 2-65 Override Job Status



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.



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



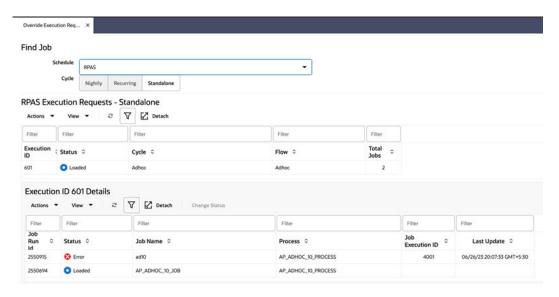
Notice the warning message. An administrator needs to understand the impact of overriding the status as it may lead to data corruption if an unintended action takes place.

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.

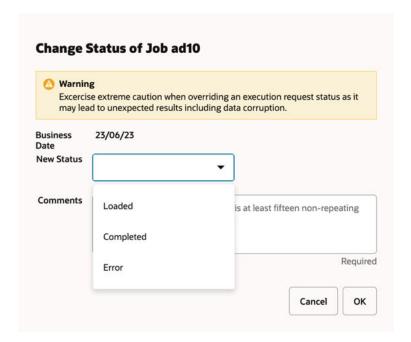
Figure 2-66 Override Job Execution Status



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.





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.

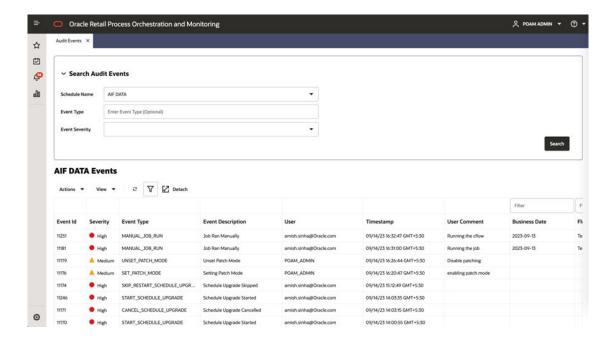
Audit Events

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 actions that trigger an audit event are listed below:

#	Screen	Actions	
1	Batch Monitoring	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 	
2	Batch Administration	• Enable/Disable Jobs	
		 Job configuration update 	
		MDF Sync	
		 Export/Import configuration 	
		 Schedule Config 	
		 Custom Entities 	
		 Custom Batch Entity (Create/Update/Delete) 	
		Enabled/Disable Invokable	
		• Enable All/ Disable All action	
3	System Configuration	 Update environment settings (URLs) 	
	0) 011111 01111-0111111	Update / Remove external configuration	
		Update System settings	
		 Create/Update/Delete of custom job type 	
		New Schedule Creation	
		System Option Update	
4	Scheduler	Enable/disable a scheduler task	
7	Administration	 Configuration update 	
		Scheduler Task delete	
		- Schedulci 103K UCICLE	

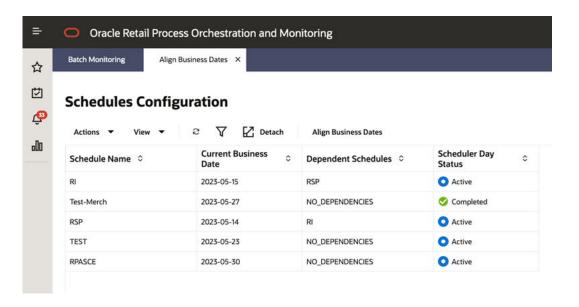


#	Screen	Actions	
5	Schedule Maintenance	•	Schedule upgrade
6	AMS Utilities	•	Manual job run
		•	Exec request status update
		•	Job status update
		•	Align business date
		•	Skip Recurring Flow(s)

Align Business Dates

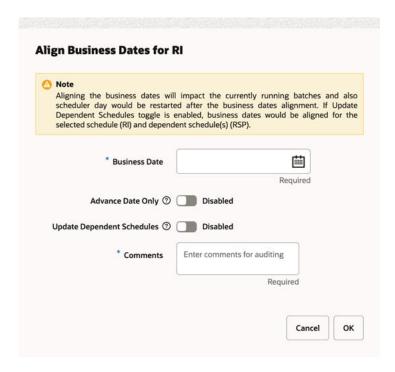
An Oracle Administrator uses **Align Business Dates** to align the business dates for the schedules.

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



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





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 interschedule dependent schedules and for schedules linked through execution links.

Skip Recurring Flow(s)

An Oracle Administrator uses **Skip Recurring Flow(s)** to skip a flow in a specific hourly cycle or in all hourly cycles.

Figure 2-67 Skip a Single Hourly Cycle





Figure 2-68 Skip a Range of Hourly Cycles



Select a **Schedule**, a **Flow** for the selected Schedule, a Single or Range of Cycle(s), add **Comments** and click the **Skip** button to skip the specified cycles of the recurring flow.

Data Migration

POM includes a Data Migration feature that allows certain retail users to refresh data from one environment to another. This feature is under an incremental development and, at this point, only available to the Retail Analytics and Planning (RAP) customers. An administrative user can request an ADW Clone to be performed from one environment to another; for example, production to stage. This feature is accessible through the Data Migration option of the POM Tasks menu.

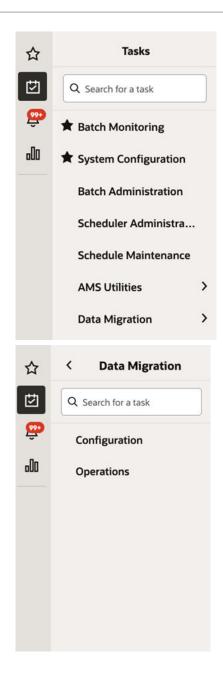
This menu option is available only to users that are assigned to the following roles:

Table 2-3 Data Migration Operations – Roles and Privileges

Role	Privileges
DM_ADMINISTRATOR_JOB	Retailer administrators who can perform all actions on the Data Migration Configuration and Operations screens.
DM_MONITOR_JOB	Retailer users who can only view and restart data migrations that are in progress. Users in this role cannot initiate new migrations.

Select **Data Migration** from the Tasks menu to display the submenu.





The Data Migration submenu contains the following tasks:

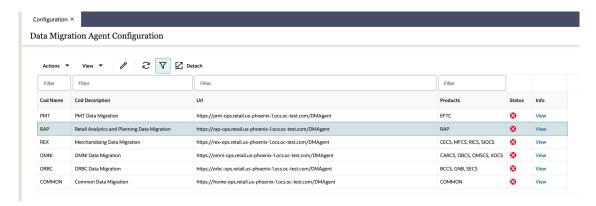
- Configuration
- Operations

Configuration

The Configuration screen displays all Data Migration Agent Configurations and their details – Cod Name, Cod Description, URL, Products, Status, and Info. The Info column gives more information on the status of the configuration.



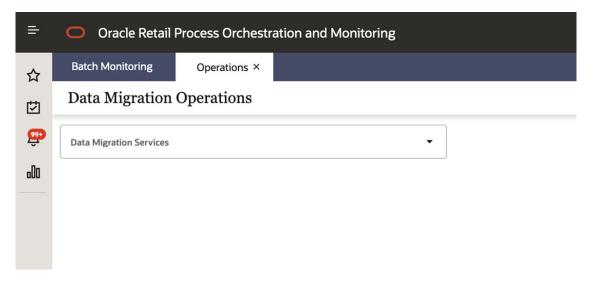
Figure 2-69 Data Migration Agent Configuration



Operations

POM users with the right privilege can perform data migration operations such as scheduling data migration processes, restarting them, and so on. This enables the users to perform the data migration processes from the POM application itself.

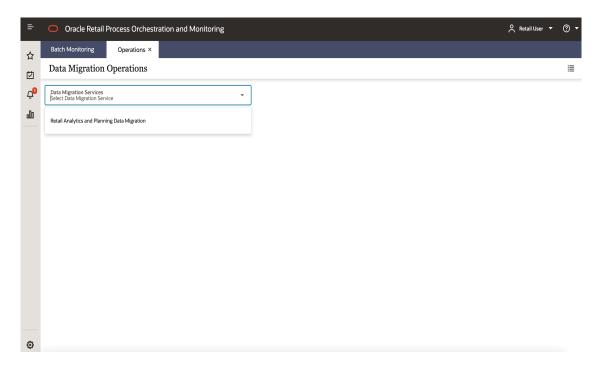
Figure 2-70 Data Migration Operations – Landing Page



The landing page displays a **Data Migration Services** drop down of available data migration services.



Figure 2-71 List of Data Migration Operations



The type of data migration performed is based on the selected **Data Migration** service and the product.

For example:

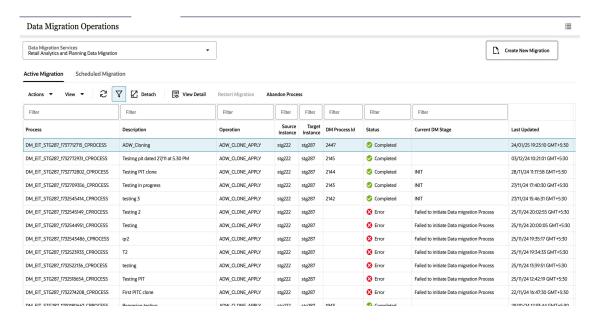
Retail Analytics and Planning Data Migration (Product: RAP)

Active Migration

Once the user selects a Data Migration Service, a table of Active Migrations and their details is displayed for the selected Data Migration Service. The migration processes can be either in Loaded, Started, Completed, Error or Failed status.



Figure 2-72 List of Active Migration Process Details



The user can select a Data Migration Process then click the **View Detail** button to view more details for the process, its stages, and logs. The Details window displays the information based on the status of the process.

Active Migration – View Detail

Figure 2-73 Detail of Data Migration Process in Completed Status – Process Stages

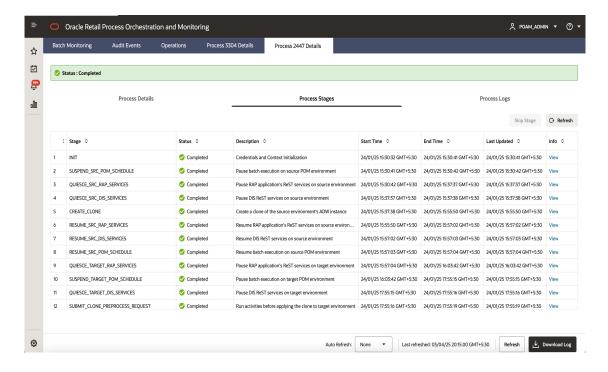




Figure 2-74 Detail of Data Migration Process in Completed Status – Process Details – Operation: ADW_CLONE_APPLY

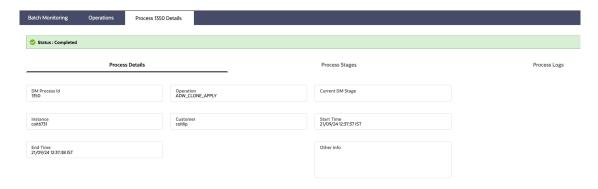


Figure 2-75 Detail of Data Migration Process in Completed Status – Process Logs – Operation: ADW_CLONE_APPLY

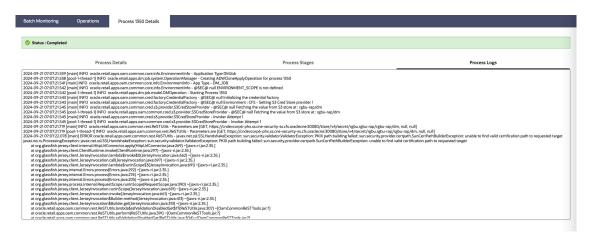
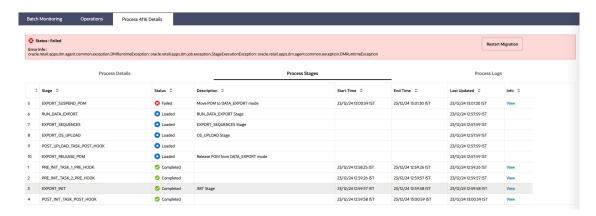


Figure 2-76 Detail of Data Migration Process in Error Status





Figure 2-77 Detail of Data Migration Process in Failed Status



The user can restart a failed Data Migration Process by selecting the failed process and clicking the **Restart** button. A pop-up window is displayed, prompting for a comment explaining the restart.

Active Migration - Restart Migration

The user can restart a failed data migration process either by retrying the current failed step or by skipping the current failed step.

Figure 2-78 Restarting Data Migration Process - Error

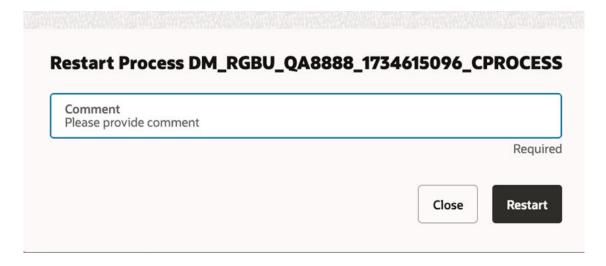
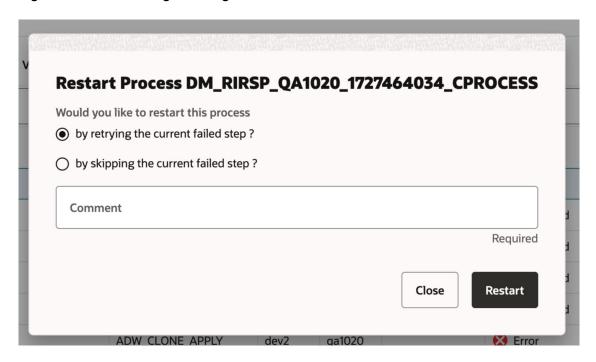




Figure 2-79 Restarting Data Migration Process - Failed



Once the **Restart** button is clicked, the failed Data Migration Process is restarted based on the selected option and moved to the appropriate status.

Figure 2-80 Detail of Data Migration Process After Restart - Loaded Status

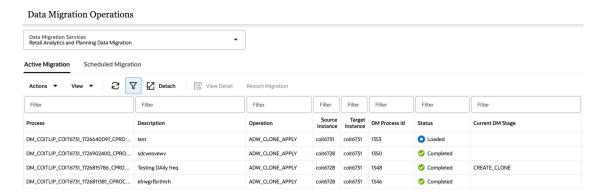
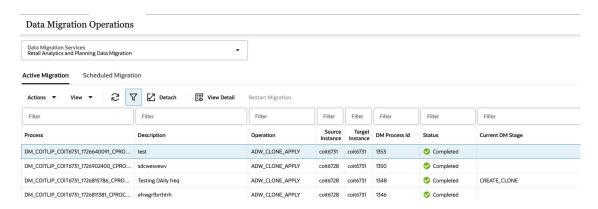




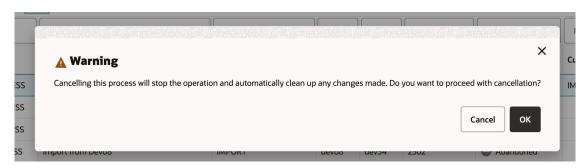
Figure 2-81 Detail of Data Migration Process After Restart – Moved to Completed Status



Active Migration – Cancel Migration

The user can cancel an incomplete data migration (Loaded, Failed, Error, and so on) by selecting the process and clicking the **Cancel Process** button.

Figure 2-82 Cancel Process



Create New Migration – Configuration – ADW Cloning

A user can perform an ADW Clone from a source-to-target environment based on the selected clone type and schedule for Retail Analytics and Planning Data Migration. Once the clone is applied on the target environment, the previous version of data will be available for seven days in case a restore is needed. The previous version is discarded after seven days.



Currently, POM only supports cloning when the source and destination environments are running the same application version. In the future, Oracle will look at removing this restriction if technically feasible.

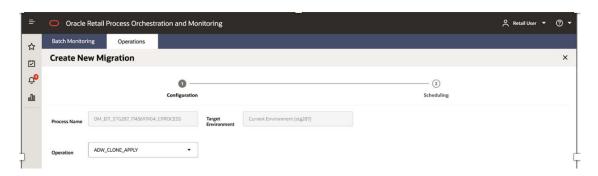
Also, POM currently does not support cloning of integrated environments where Golden Gate is enabled.

The ADW Clone can be performed by clicking the **Create New Migration** button from either **Active** or **Scheduled** tabs. This opens the **Create New Migration** window where the user can first select the process to be migrated along with the operation to be performed on it.



As mentioned previously, at this point, only the ADW Clone operation is available.

Figure 2-83 Create New Migration - Configuration - ADW Cloning



The user can select either **Current State** or **Point in Time** to initiate the cloning of data as of the current state or cloning of data as of a chosen timestamp, respectively. If **Point in Time** is selected, a date and time no older than 60 days must be chosen.

Figure 2-84 Create New Migration - Configuration - Current State

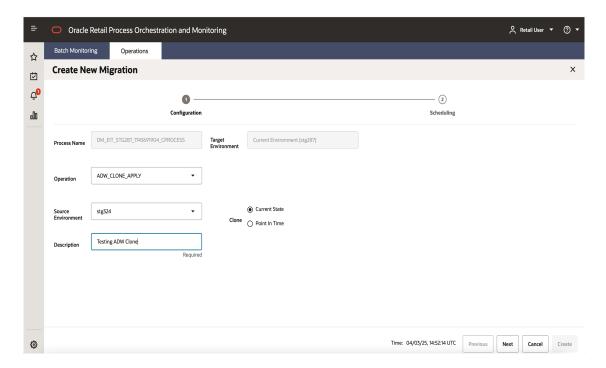
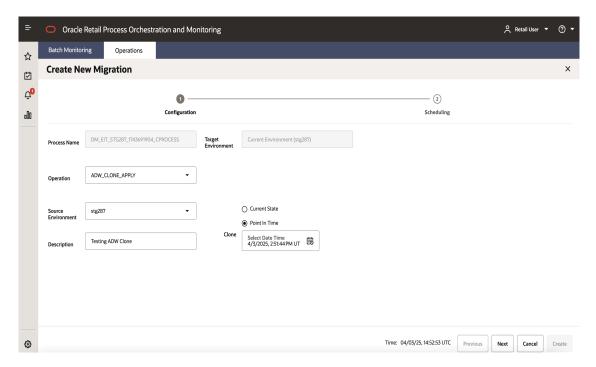




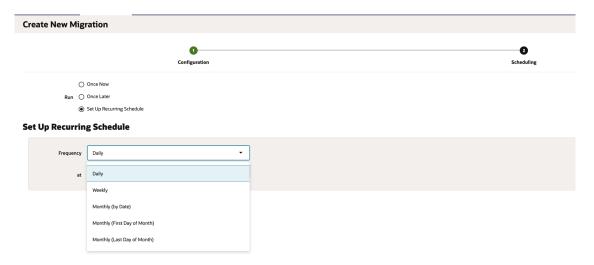
Figure 2-85 Create New Migration – Configuration – Point in Time



Create New Migration - Scheduling

After providing all the configuration information and clicking the **Next** button at the bottom of the Configuration screen, a dialog opens where the data migration can be scheduled. This can be scheduled to immediately run once, or once later at a scheduled time, or in a recurring manner. Once a scheduled migration is triggered, it will be listed on the **Active Migration** tab where it can be monitored.

Figure 2-86 Create New Migration – Scheduling – Set Up Recurring Schedule

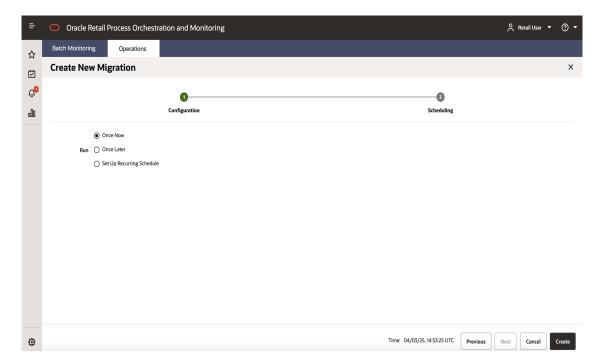


A data migration can be configured in one of many frequencies as described in the table below:



Frequency	Description
Daily	Run daily at the specified time
Weekly	Run every <day a="" of="" week=""> at the specified time.</day>
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)	Run at the beginning of every month.
Monthly (Last Day of the month)	Run at the end of every month.

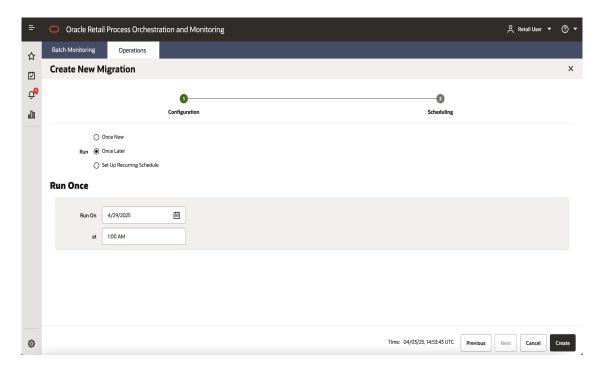
Figure 2-87 Create New Migration – Scheduling – Once Now



If **Once Now** is selected and the **Create** button is clicked, the migration will be listed in the **Active Migration** tab in **Loaded** status and ready to be executed. The process then moves to Started then Completed/Error status.



Figure 2-88 Create New Migration - Scheduling - Once Later



If **Once Later** is selected, a data migration is scheduled and run once on the selected date and time.

Figure 2-89 Create New Migration - Scheduling - Recurring - Daily

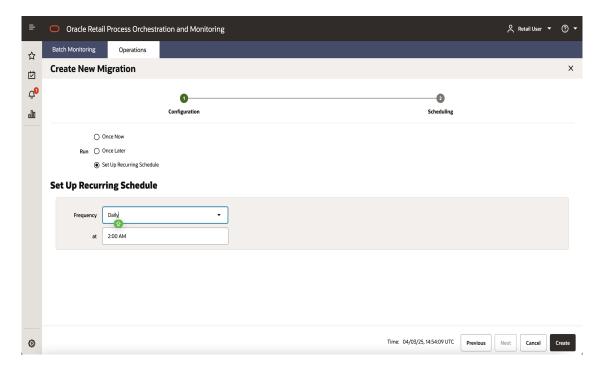




Figure 2-90 Create New Migration - Scheduling - Recurring - Weekly

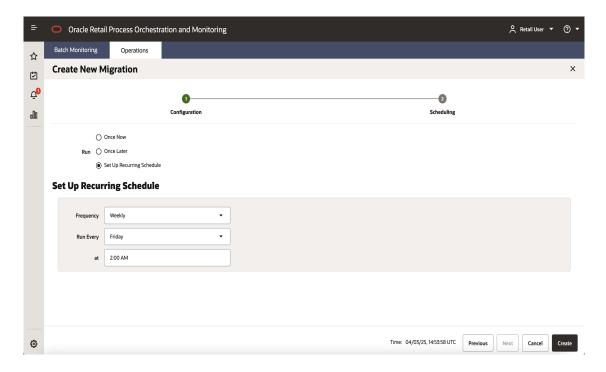


Figure 2-91 Create New Migration – Scheduling – Recurring – Monthly (by Date)

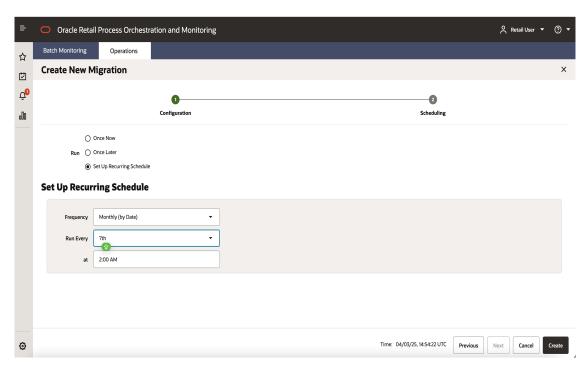




Figure 2-92 Create New Migration – Scheduling – Recurring – Monthly (First Day of Month)

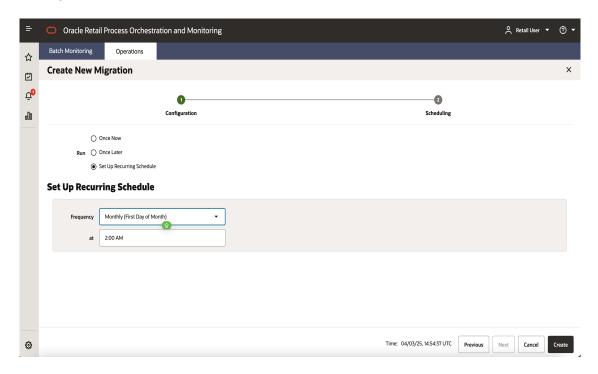
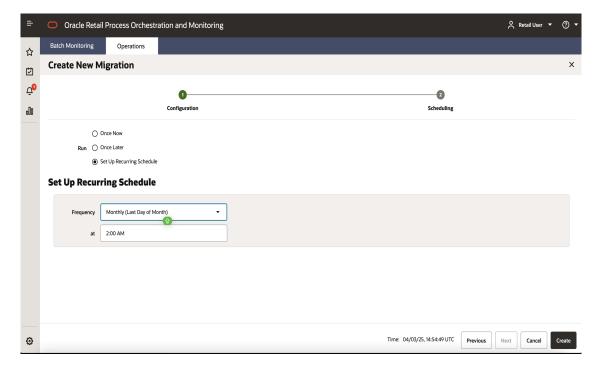


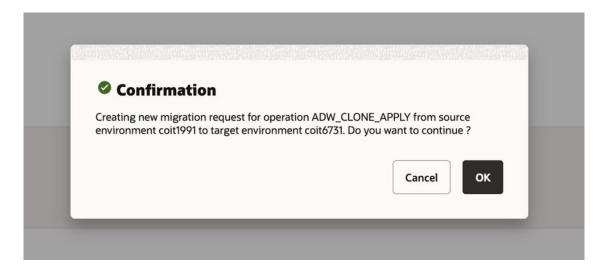
Figure 2-93 Create New Migration – Scheduling – Recurring – Monthly (Last Day of Month)



After the Data Migration Process is configured and scheduled, the user can click the **Create** button to create the process. A confirmation pop up is displayed, after which the process is created.



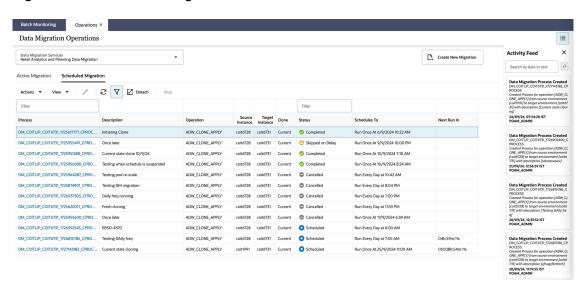
Figure 2-94 Create New Migration – Confirmation



Once the process is created, the Scheduled Migration screen is shown where the created process is listed in the Scheduled Migration table.

Scheduled Migration

Figure 2-95 Scheduled Migration



The new process can also be seen in the **Activity Feed** in the right panel of the **Scheduled Migration** tab. If the created process does not show immediately, click the Refresh icon to see it.



× **Activity Feed Create New Migration** 43 Search by date or text **Data Migration Process Created** DM_COITLIP_COIT6731_1727143182_CP **ROCESS** Created Process for operation [ADW_CL ONE_APPLY] from source environment [coit1991] to target environment [coit67 31] with description [Current state cloni 24/09/24, 07:34:28 IST Next Run In POAM_ADMIN **Data Migration Process Created**

Figure 2-96 Scheduled Migration – Activity Feed

Scheduled Migration - Detail

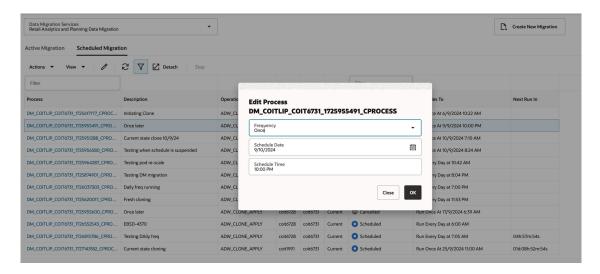
The Scheduled Migration table also lists the other data migration processes that are scheduled. The status of the process can either be in Scheduled, Cancelled, Skipped On Delay, or Completed.

Scheduled Migration - Edit

The user can reschedule a process that either in Cancelled or Skipped on Delay status by selecting the corresponding row and clicking on the **Edit** icon. The process can be rescheduled to immediately run once, or once later at a scheduled time, or in a recurring manner by selecting the Frequency. Once rescheduled, the process moves to **Scheduled** status.



Figure 2-97 Scheduled Migration - Edit Process

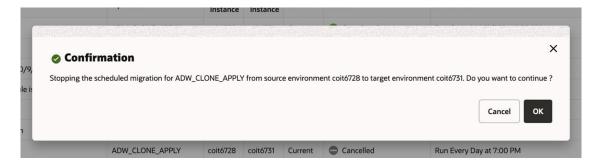


Scheduled Migration - Stop

A scheduled data migration process can be stopped by selecting a process that is in **Scheduled** status and clicking the **Stop** button. After confirming the action, the process is moved to 'Cancelled' status.

The cancelled process can be scheduled again by clicking the Edit icon and rescheduling it.

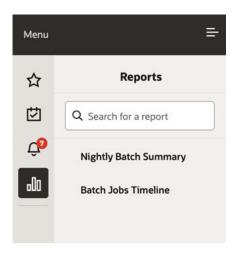
Figure 2-98 Scheduled Migration - Stop Process



Reports

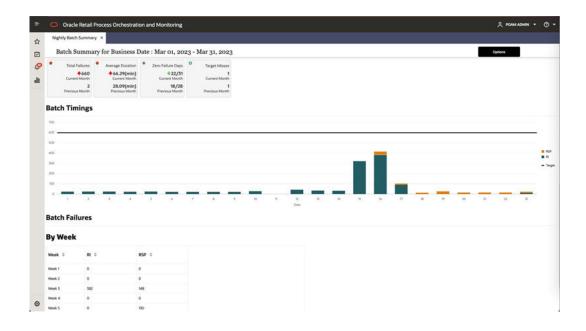
Select **Reports** from the main menu to display the submenu.





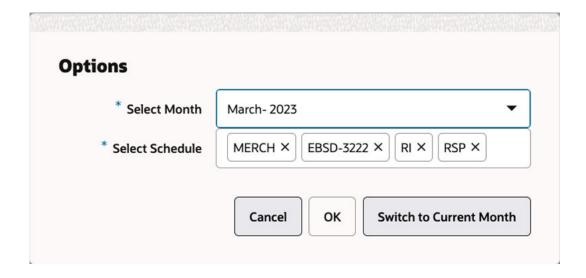
Nightly Batch Summary

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.





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.

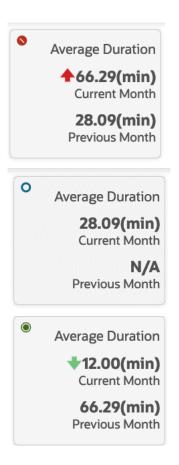
Tile# 1 – Total Failures



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

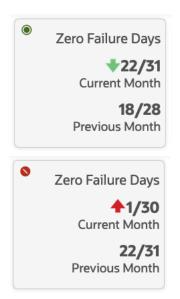


Tile# 2 - Average Duration



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.

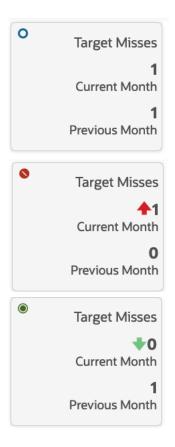
Tile# 3 - Zero Failure Days





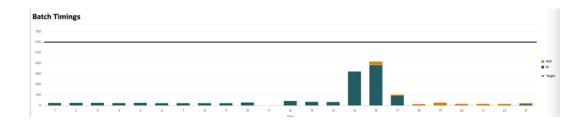
This tile displays the count of the days when a batch completed execution without any failure for the selected month and schedules. The previous month's Zero failures count is also displayed for comparison.

Tile# 4 - Target Misses



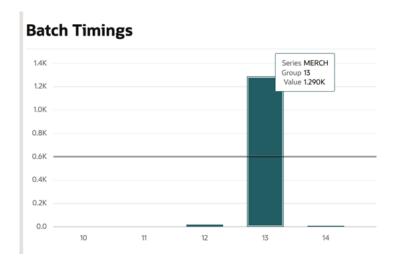
The Target Batch Duration is a threshold that can be set at the schedule level at provisioning time. It can also be added or modified on the System Options screen accessed from the System Configuration screen. This system option's key is TARGET_BATCH_DURATION. A target miss occurs when batch duration 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 Failures

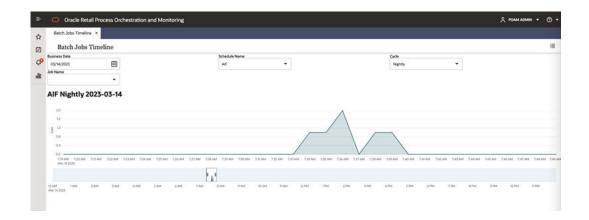
Batch Failures By Week			
			Week ≎
Week 1	0	0	
Week 2	0	0	
Week 3	382	148	
Week 4	0	0	
Week 5	0	130	

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.







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
BATCH_VIEWER_JOB	Viewer	Utilities screen. 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_CONFIGURATIO N_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_ADMINISTRATO R_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_ADMINISTRA TOR_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.
DM_ADMINISTRATOR_JOB	DM Admin	Users within this role are typically retailer administrators responsible for migrating data from one environment to another. They can perform all actions on the Data Migration Configuration and Operations screens.
DM_MONITOR_JOB	DM Monitor	Users within this role are retailer business users responsible for just monitoring data migrations. They can only view and restart data migrations that are in progress. They cannot initiate new migrations.

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
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



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

Feature	Roles (aliases) with update access
Job Details screen - Retry Schedule Link button	Administrator
	AMS Admin
Job Details screen - Retry Callback button	Administrator
	AMS Admin
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
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	Administrator
screen	Schedule Admin
	AMS Admin

Table 3-8 Screen: Schedule Maintenance

Feature	Roles (aliases) with update access
All actions: Import Latest Schedule button,	Administrator
Upgrade, Retry buttons in table row	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	
Skip Recurring Flow(s)	

Table 3-10 Screen: Application Properties

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

Table 3-11 Screen: Data Migration

Feature	Roles (aliases) with update access
All actions: Agent Configuration, All Data Migration operations	DM Admin
View data migrations in progress, Restart failed migrations	DM Monitor