

# Oracle<sup>®</sup> Retail Process Orchestration and Monitoring User Guide



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

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# Preface

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

## **Audience**

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

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

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

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

# 1

## Common User Interface Controls

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

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

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

The following topics are covered in this chapter:

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

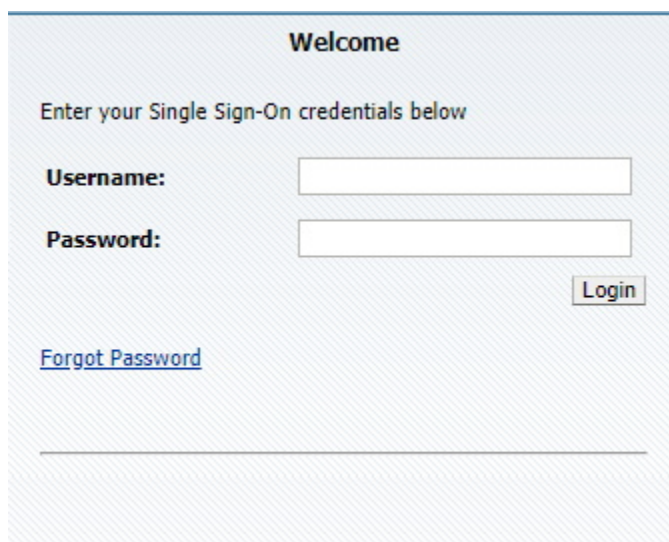
## Logging on to the Application

To log on to the application:

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

The Welcome Screen opens.

**Figure 1-1 Welcome Screen**



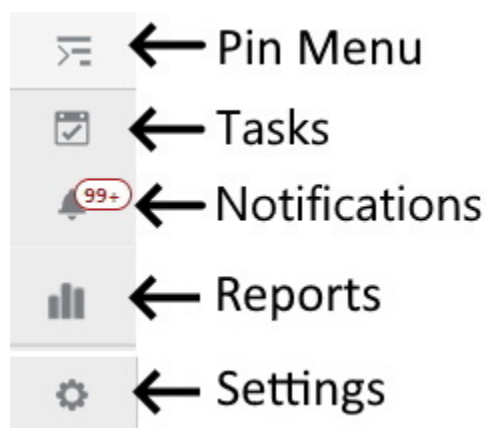
The screenshot shows a web form titled "Welcome". Below the title, it says "Enter your Single Sign-On credentials below". There are two input fields: "Username:" and "Password:". To the right of the "Password:" field is a "Login" button. Below the input fields is a link for "Forgot Password".

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

## Navigation Area

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

**Figure 1-2** Navigation Bar



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

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


## Tasks

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

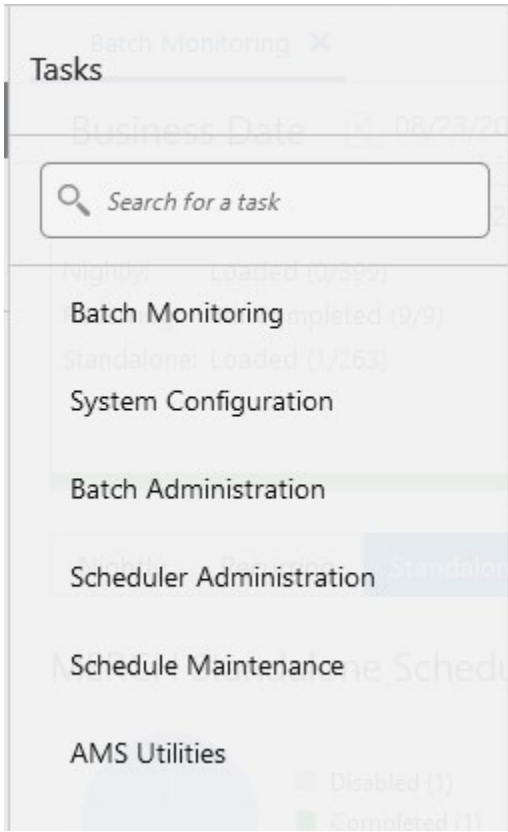
A task is a set of links to a series of task flows organized in a specific sequence to accomplish a business process or procedure. For example, tasks can be defined for common multi-step procedures or processes so that you can quickly step through tasks. By navigating sequentially to the pages outlined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

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

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

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

**Figure 1-3** Tasks Menu

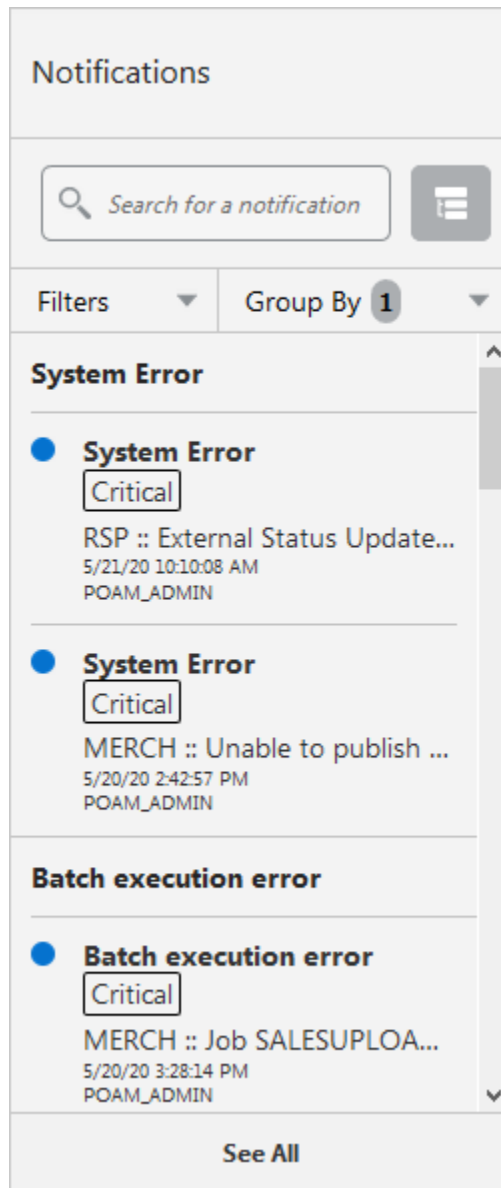


## Notifications

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

See the following examples:

Figure 1-4 Notifications

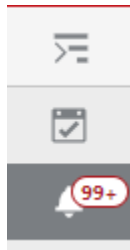


## Notification Badge

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.

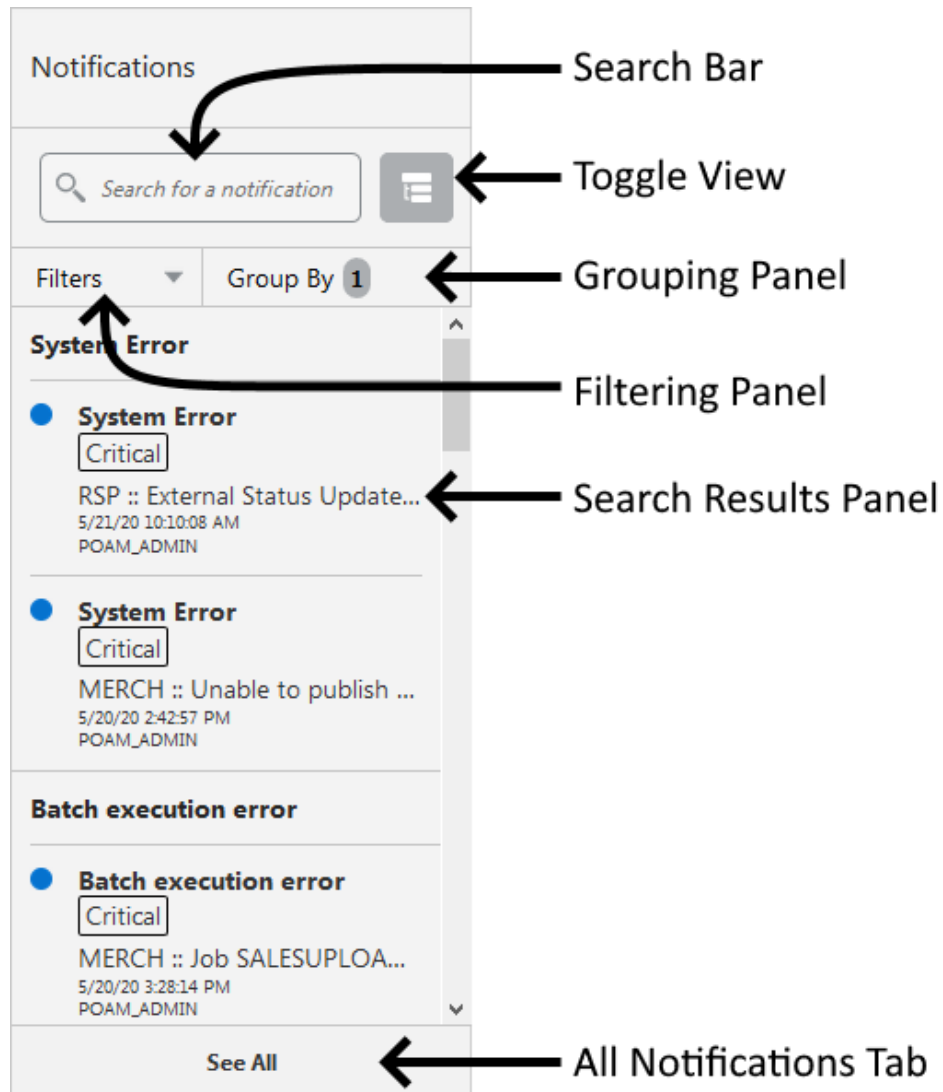
Figure 1-5 Notification Badge



## 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 1-6 Notifications Sidebar



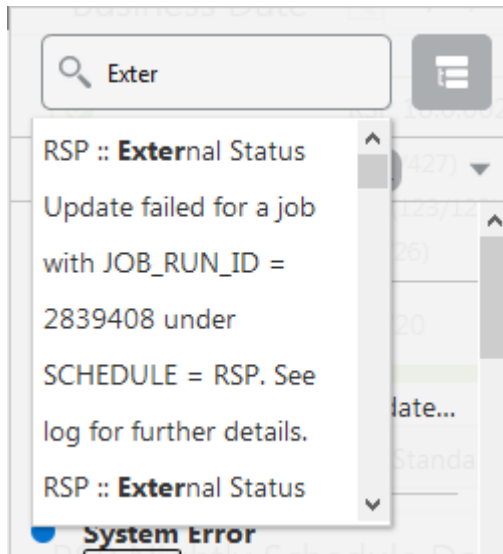
Each component of the Notifications Sidebar is discussed in detail in the following sections.

## 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 1-7 Search Bar**

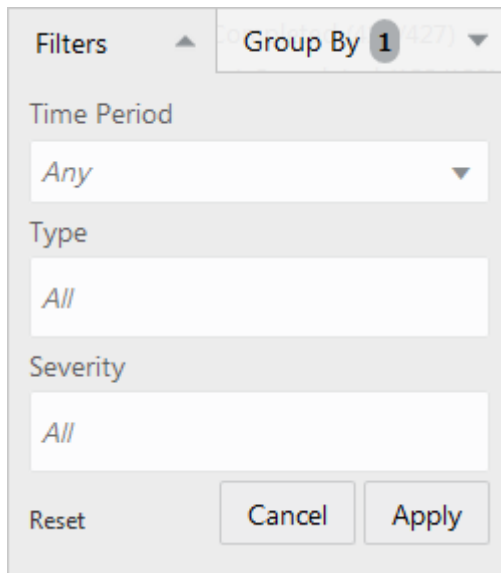


## Filtering Panel

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.

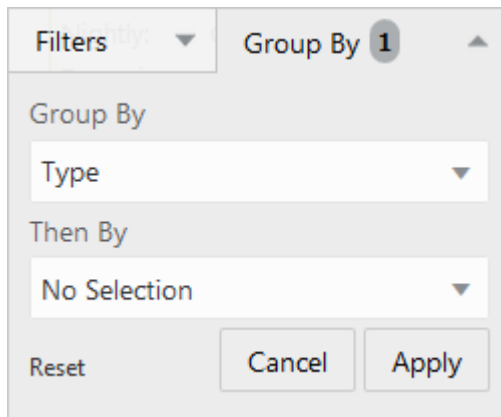
When you click the **Apply** button, notifications that match the criteria are shown in the Results Panel.

**Figure 1-8 Filtering Panel**

The Filtering Panel is a light gray dialog box. At the top left, it says "Filters" with an upward-pointing arrow. To its right is a "Group By" dropdown menu showing "1 (427)". Below this are three filter categories, each with a dropdown menu: "Time Period" set to "Any", "Type" set to "All", and "Severity" set to "All". At the bottom, there are three buttons: "Reset", "Cancel", and "Apply".

## 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 1-9 Grouping Panel**

The Grouping Panel is a light gray dialog box. At the top left, it says "Filters" with a downward-pointing arrow. To its right is a "Group By" dropdown menu showing "1" with an upward-pointing arrow. Below this are two grouping categories, each with a dropdown menu: "Group By" set to "Type" and "Then By" set to "No Selection". At the bottom, there are three buttons: "Reset", "Cancel", and "Apply".

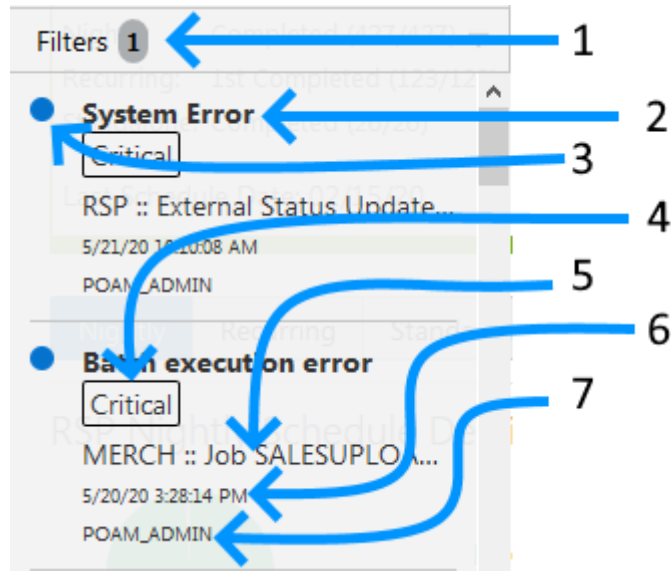
## Results Panel - List View

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 1-10 Results Panel - List View**



1. Indicates that one filter was applied.
2. Notification Type - A description of the Type is displayed.
3. Read/Unread - A blue icon is shown next to the notification if it is unread.
4. Notification Severity - A label indicating the severity of the notification is shown.
5. Description - The description associated with the notification. If the notification was designed to launch into a relevant flow, then this is displayed as a link. Otherwise, the description is rendered as plain text.
6. Creation Time - A timestamp that shows the date and time at which the notification was created.
7. User name - Creator of the notification.

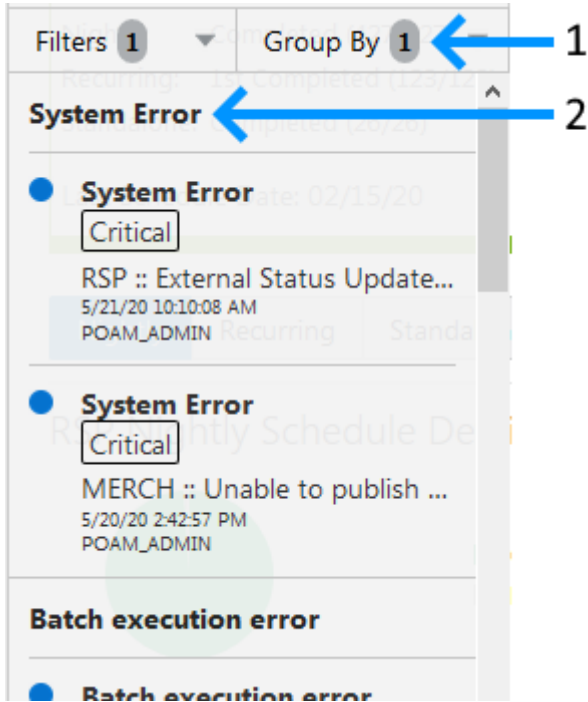
## Results Panel - Grouped View

### 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 1-11 Results Panel - Grouped View



1. Indicates the Group-By drop-down is selected on the Grouping Panel.
2. The value of the Group-By attribute. In this example, the results were grouped by Notification Type. Hence the Notification Type is shown as the header of the group.

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.

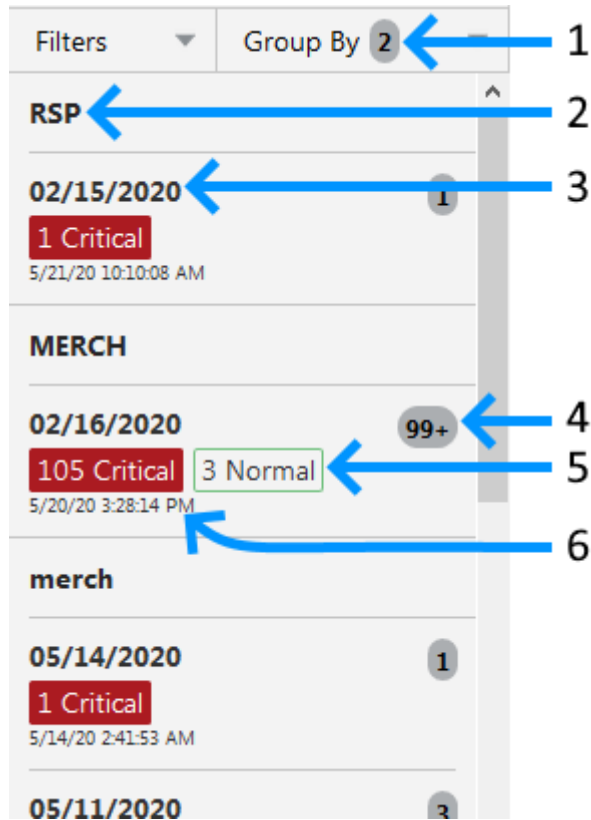
## Results Panel - Summarized View

Notifications are summarized as shown in this example, when both the Group By and the Then By drop-downs 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 1-12 Results Panel - Summarized View

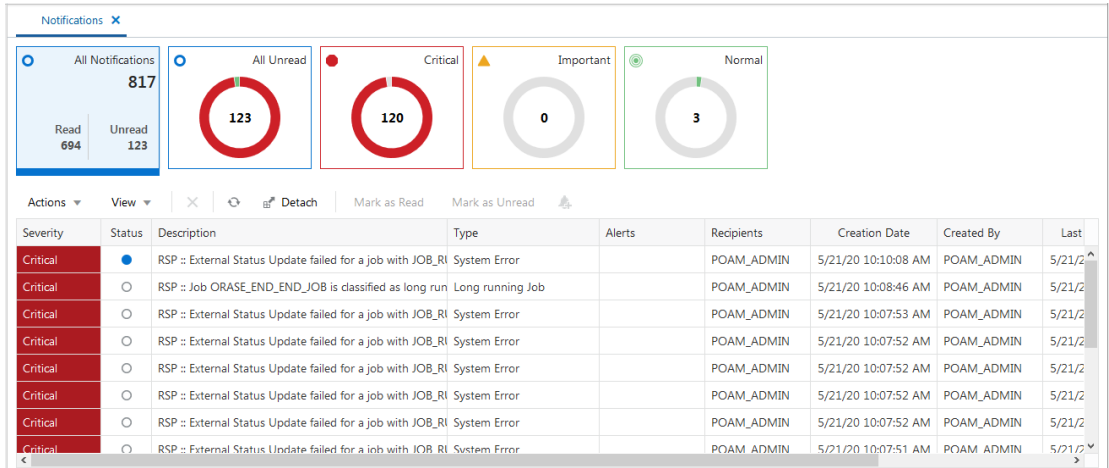


1. Indicates that both options on the Grouping Panel have been selected.
2. First level of grouping is by Schedule Name. Here the first type shown is 'RSP'.
3. The subgroup within Type 'RSP'. In this example, this is the Business Date.
4. The number of notifications within that combination of Group and Subgroup.
5. A grouping by severity of all notifications within that combination of Group and Subgroup.
6. The timestamp of the most recent notification of that combination of Group and Subgroup.

## Notifications Tab

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

**Figure 1-13 Notifications Tab**



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

You can perform the following operations from this tab.

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

**Figure 1-14 Reassign Notification**

Reassign Notification

Severity: Critical

Type: Reassigned


Description: RSP :: Failure during Phase II - Creating a Schedule Instance in the DB, while creating a RSP schedule instance, due to PL-SQL Execution failed

Choose Recipients: Search for recipient

Selected:

Cancel OK

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.

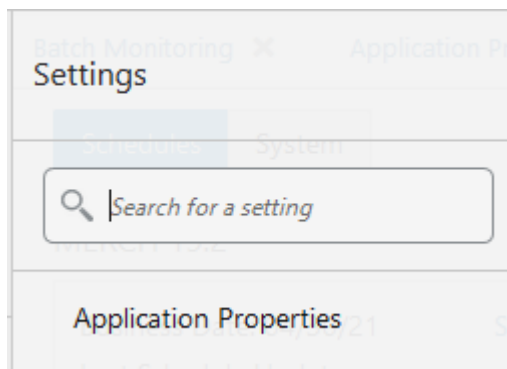
- Department - The Department associated with the notification. Not visible by default.
- Class - The Class associated with the notification. Not visible by default.
- Subclass - The Subclass associated with the notification. Not visible by default.
- Location - The Location associated with the notification. 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



### Note:

Figure 1-15, Figure 1-16 are representations and may be different for every window/table/popup.

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

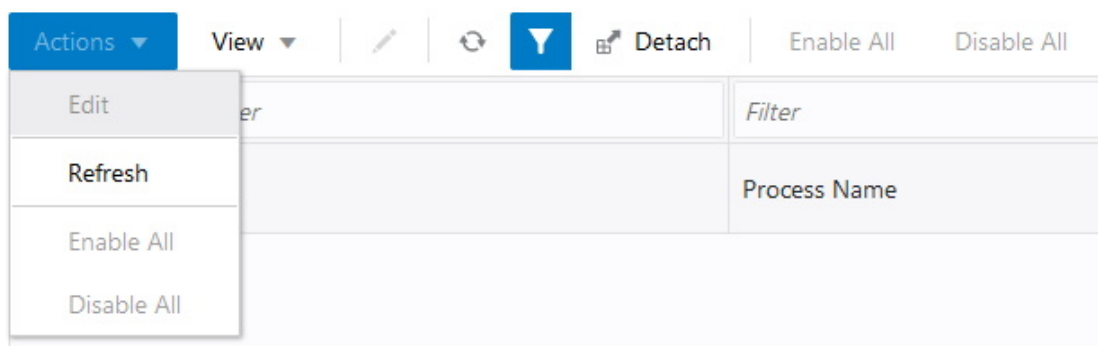
## Action Menu and Icons

The Actions menu provides the option to take different actions related to entries in the table. Depending on the nature of the table, these actions can be add, view, delete or edit table rows, create by moving to a new screen or export the table contents to the spreadsheet. Alternatively these actions can also be performed by using the icon







buttons on the table toolbar. For more information on the icon/buttons, see the [Screen Level Action - Icons and Buttons](#).

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

**Figure 1-15 Action Menu and Icons**



**Table 1-1 Actions Menu/Icons and Descriptions**

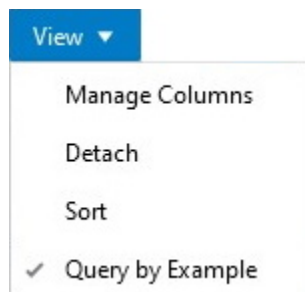
Actions Menu/Icon	Description
Refresh and Refresh icon 	Select <b>Actions &gt; Refresh</b> or the Refresh icon  to update the records in the table.
Filter icon 	Select the Filter icon  to open fields that will filter the results. Use the filter fields to only show the rows matching or containing the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

## View Menu

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



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

**Figure 1-16 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 <b>View &gt; Manage Columns</b> . 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 <b>View &gt; Detach</b> or by using the Detach icon  .
Query by Example	You can filter the items by one or multiple column values by selecting <b>View &gt; Query by Example</b> .

## Screen Level Action - Icons and Buttons

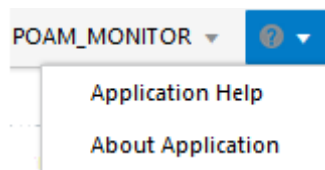
The screen level actions display the icons and buttons.

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

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

## Application Help and About Application Links

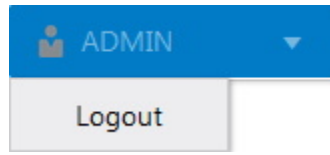
Use the Help list menu on the top right of the window, to open tabs for Application Help or About Application.

**Figure 1-17 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 1-18** Logging Out of the Application



# 2

## Process Orchestration and Monitoring

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

Process Orchestration and Monitoring has the following tabs:

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

### Batch Monitoring

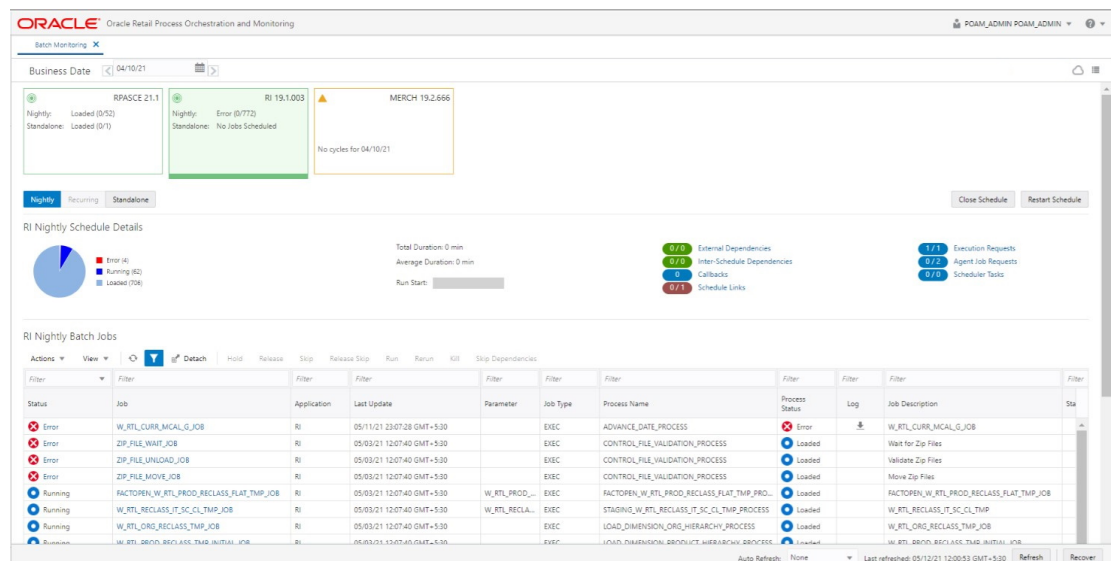
#### Batch Monitoring

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

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

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

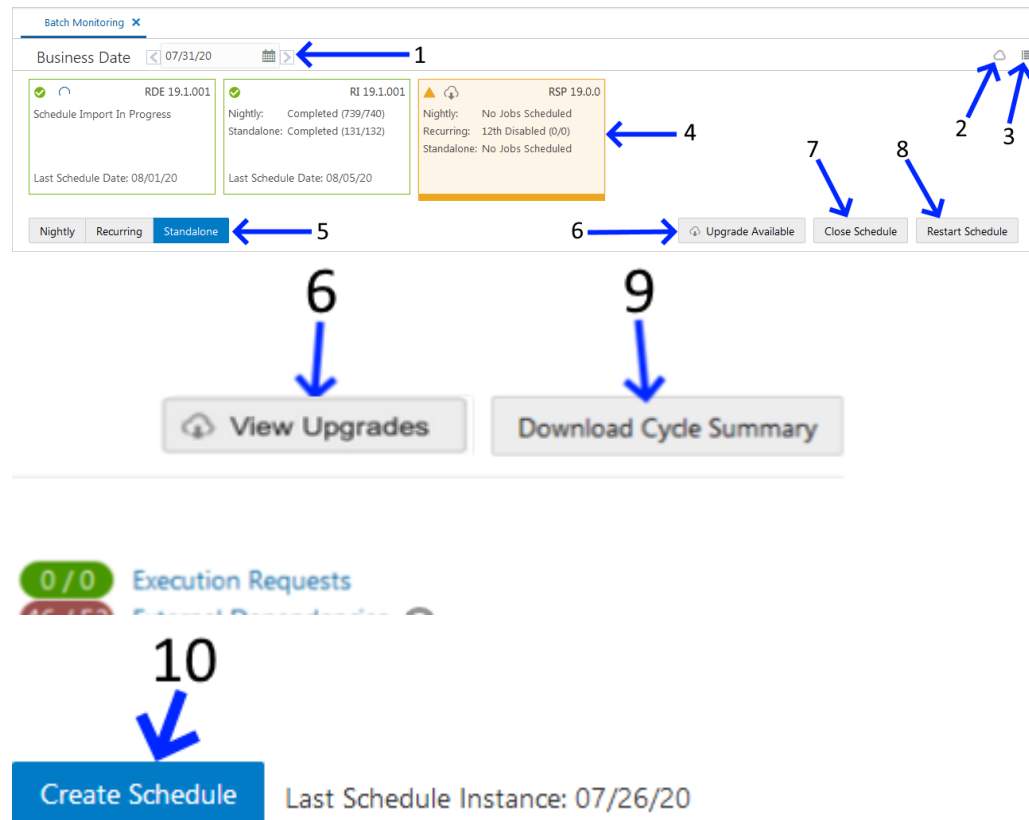
**Figure 2-1 Batch Monitoring**



## Header

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

**Figure 2-2 Batch Monitoring Header**



- 1. Business Date** - Displays the business date for the oldest schedules displayed in Batch Monitoring.

Use this field to select the oldest schedule displayed in Batch Monitoring.

- 2. Environment Status Icon** - Click this icon to display a panel at the right side of the screen showing the status of the Scheduler, Execution Engine and the environments. The user can also manage the information displayed. See [Status](#) for more information.
- 3. 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.
- 4. 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.

5. **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
6. **Upgrade Available** - Use this button to navigate to the Schedule Maintenance screen for the option to upgrade the batch schedule to a new version. This button only appears when there is a new version of the schedule available and there is no upgrade in progress or in error. When an upgrade is in progress or in error, the button caption changes to **View Upgrades** which also navigates the user to the Schedule Maintenance screen.
7. **Close Schedule** - Use this button to close the schedule. This button only appears for Active schedules.
8. **Restart Schedule** - Use this button to restart the schedule. This button only appears for Active schedules.
9. **Download Cycle Summary** - Use this button to download a summary for the currently selected business day for the selected schedule. Once clicked, the [Download Cycle Summary](#) dialog provides the user options to select the cycle and format. This button only appears for Completed schedules.
10. **Create Schedule** - Use this button to create a new Scheduler Day. This button only appears when a schedule tile is selected for which there is no open Scheduler Day. Click this button to create a new Scheduler Day for the selected schedule for the business date following the last schedule instance.

## 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




 **Note:**

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

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

 Some features are disabled while a schedule is being imported

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

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

 Safe Mode

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

 Patch Mode

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

1. **Schedule name and Version** - Displays the abbreviation of the application or application group and the software version. The display schedule name can alternatively be displayed here instead of the default schedule name. The display

schedule name can be configured on the **Schedule** tab of the Batch Schedule spreadsheet.

2. **Run Status** - Displays the status of the batch processes.
  - Completed (green check mark icon)
  - Active (green target icon)
  - Error (red X icon)
  - No activity (amber triangle icon)
  - Suspended (pause icon)
  - Safe mode (Amber circle icon with a warning icon inside of it)
  - Patch Mode (Amber circle icon with a warning icon inside of it)
3. **Schedule Upgrade** - A grey cloud indicates that a newer version of the batch schedule is available.  
A red cloud indicates that schedule upgrade has failed. Navigate to the [Schedule Maintenance](#) screen to address the failure.  
A blue spinner indicates that a schedule upgrade is in progress.
4. **Monitoring Cycles and Statuses** - Displays the number of completed and total jobs for nightly / recurring cycle and number of completed and total ad hoc flows / processes for standalone cycle.
5. **Last Schedule Date** - Indicates the last date on which the batch processes were configured.

## Batch Jobs Header

The batch jobs header displays the following information:

**Figure 2-4 Batch Jobs Header**



## Run Status Chart

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

- Loaded - Jobs are in loaded state when the scheduler day is first created.
- Pending - Job is waiting to run.
- Completed - Job ran successfully on the system.
- Error - A failure occurred due to an issue in the environment or the job's application.
- Held - An administrator placed the job on hold.
- Skipped - An administrator has skipped the running of the job so the remaining jobs in the cycle can proceed.

- Running - Job is currently running on the system.
- Long Running - The job's run time has exceeded a threshold. If a Threshold Run Time is specified for the job on the Edit Job popup of the Batch Administration screen, then a job is deemed long running if its current run time exceeds that value. Otherwise, if a Threshold Run Time is not specified, then the job is deemed long running when its current run time exceeds the Long Run Average Time Multiplier (specified on the Edit Settings popup of the System Configuration screen) times the average run time of that job. For example, if a job's average run time is 3 minutes, and the Long Run Average Time Multiplier is 3, then the job is considered long running if it has been running for at least 9 minutes. A notification is sent when a job is deemed long running.
- Disabled - Job was disabled by an administrator on the [Batch Administration](#) screen.
- System Held - Job was placed on hold by the system due to a lack of resources to run it.
- Skipped on Error - Job was preconfigured to be skipped on a failure.
- Waiting - Job is waiting for completion of pre-dependencies (Hourly Cycle, Nightly Cycle, External Dependency and Inter-Schedule Predecessor Jobs).

## Completed Batch Job Statistics



### Note:

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

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

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

## Active Batch Job Statistics



### Note:

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

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

- Estimated Completion Time
- Estimated Time Remaining
- Total Duration



- Average Duration
- Run Start

## Batch Information

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

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

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

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

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

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

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

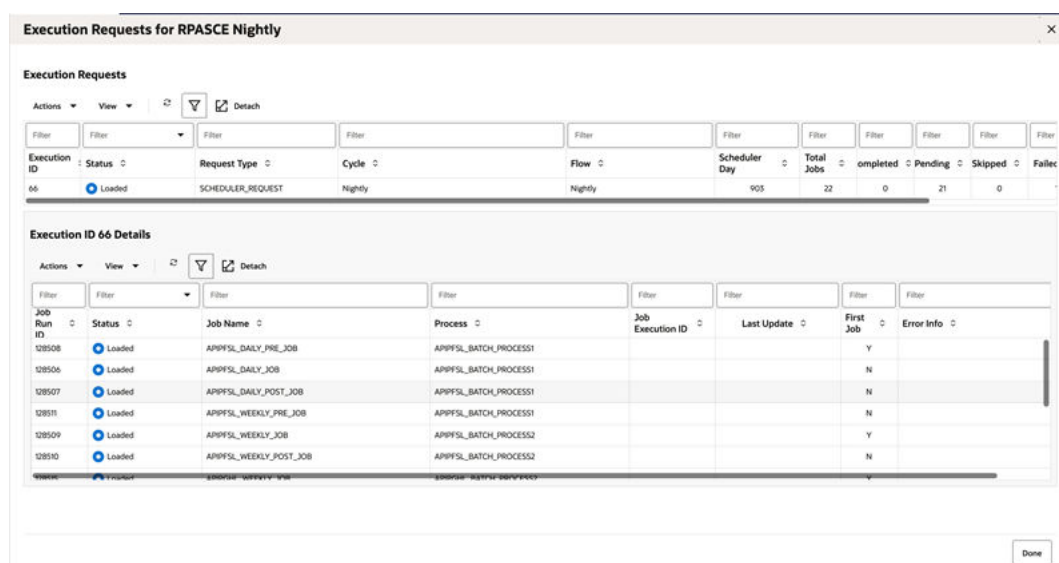
**Schedule Links** - Displays the number of successful and total number of schedule links. Click to open the [Batch Cycle Details Screen](#).

## Execution Requests Window

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

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

**Figure 2-5 Execution Requests Window**



**Execution Requests for RPASCE Nightly**

Execution Requests

Execution ID	Status	Request Type	Cycle	Flow	Scheduler Day	Total Jobs	completed	Pending	Skipped	Failed
66	Loaded	SCHEDULER_REQUEST	Nightly	Nightly	905	22	0	21	0	0

**Execution ID 66 Details**

Job Run ID	Status	Job Name	Process	Job Execution ID	Last Update	First Job	Error Info
128508	Loaded	APIPSL_DAILY_PRE_JOB	APIPSL_BATCH_PROCESS1			Y	
128506	Loaded	APIPSL_DAILY_JOB	APIPSL_BATCH_PROCESS1			N	
128507	Loaded	APIPSL_DAILY_POST_JOB	APIPSL_BATCH_PROCESS1			N	
128511	Loaded	APIPSL_WEEKLY_PRE_JOB	APIPSL_BATCH_PROCESS1			N	
128509	Loaded	APIPSL_WEEKLY_JOB	APIPSL_BATCH_PROCESS2			Y	
128510	Loaded	APIPSL_WEEKLY_POST_JOB	APIPSL_BATCH_PROCESS2			N	

Done

## Execution Requests

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

- Execution ID
- Status
- Request Type
- Cycle
- Flow
- Scheduler Day
- Total Jobs
- Completed
- Pending
- Skipped
- Failed
- System Held
- Submitting
- Submitted

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

## Execution Details

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

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

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

## Agent Job Requests Window

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

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

**Figure 2-6 Agent Job Requests Window**

Status	Request ID	Type	Job	Process	Payload	Info	Agent ID	Application Name	Create Date	Start Time	End Time	Last Update Time	Execution Request ID
Error	1201	EXEC	W_RTL_CURR_MCAL_G_JOB	ADVANCE_DATE_PROCESS	Payload	Info	RI	RI	03/08/21 19:00:00 CDT	04/08/21 19:00:00 CDT	04/08/21 19:00:00 CDT	05/02/21 19:00:00 CDT	200
Error	1200	EXEC	W_RTL_CURR_MCAL_G_JOB	ADVANCE_DATE_PROCESS	Payload	Info	RI	rihu-phu-412	05/03/21 04:45:40 CDT	05/03/21 04:45:42 CDT	05/03/21 04:46:13 CDT	05/03/21 04:46:13 CDT	161

## Agent Job Requests

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

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

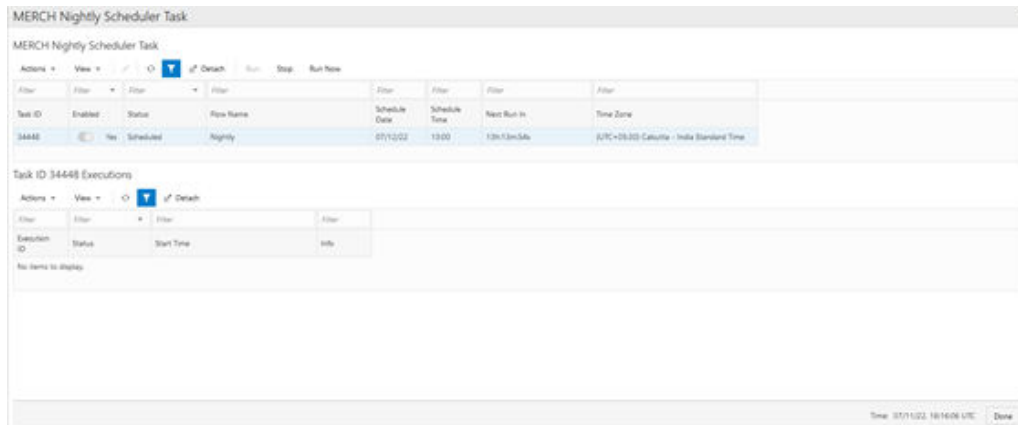
See [Table Menu Options](#) in the [Common User Interface Controls](#) for information about the options available in this section.

## Scheduler Tasks

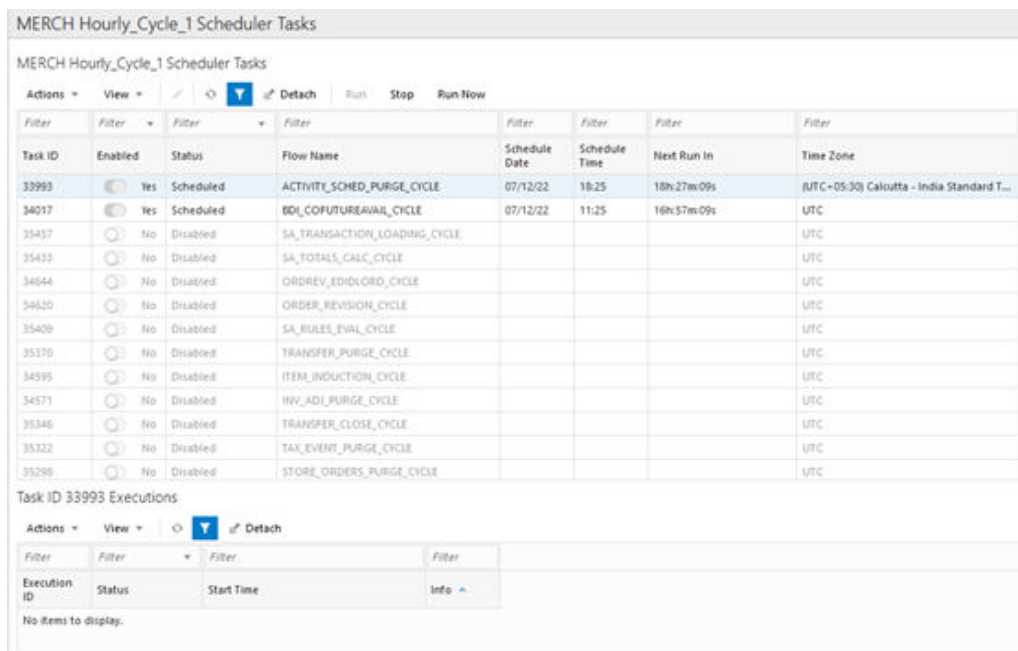
The Scheduler Tasks window displays information about tasks that are scheduled to run during the current scheduler day. See the Scheduler Administration section of this chapter.

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

**Figure 2-7** Nightly Scheduler Task Window



**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



### Note:

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

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

## Task Executions

### Task Executions

This section displays the following information about each task executions:

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

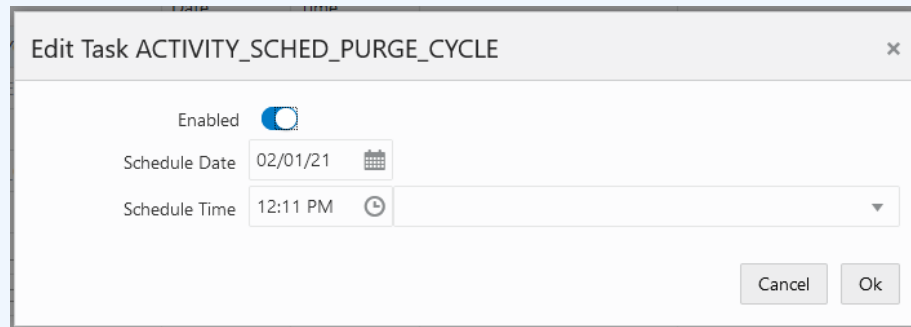
See [Table Menu Options](#) in [Common User Interface Controls](#) for information about the options available in this section.

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

 **Note:**

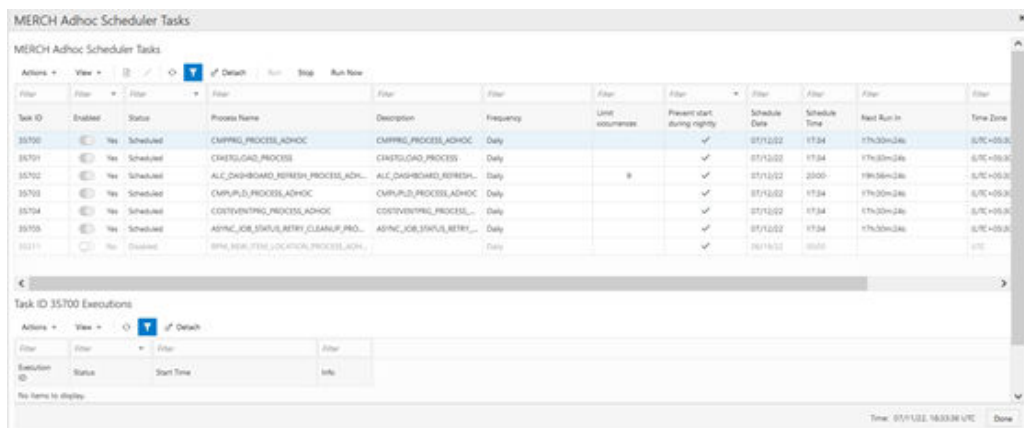
If the user makes a change to the time, he or she needs to click the **Run** action to schedule the task.

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 is therefore editable.



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.

**Figure 2-9 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**

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

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

**Edit Task APIPGHL\_BATCH\_PROCESS1**

Enabled

Description

Frequency

Limit occurrences

Schedule Date

Schedule Time

Prevent start during nightly



**Note:**

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

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

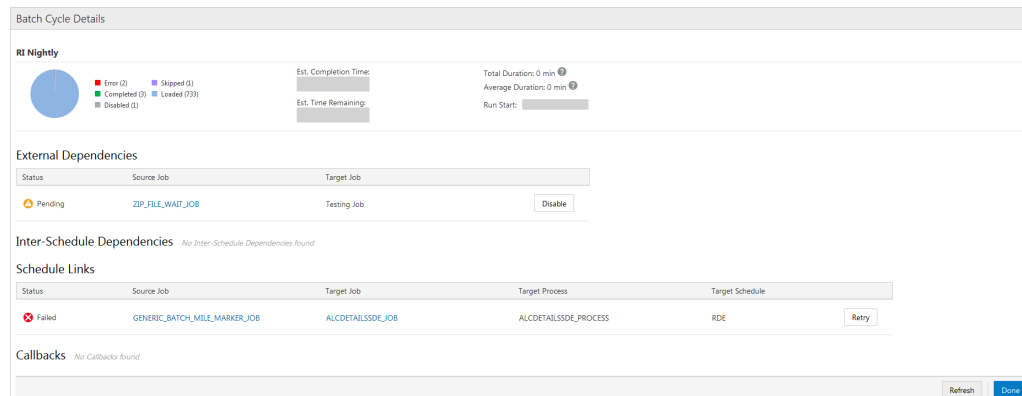
## Task Executions

This section displays the following information about each task execution:

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

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

## Batch Cycle Details Screen



The Batch Cycle Details screen displays the following sections:

### Header

The header displays the following information about the batch cycle:

- [Run Status Chart](#)

### Completed Batch Job Statistics

Completed Batch Job Statistics

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



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

## Active Batch Job Statistics

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



### Note:

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

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

## External Dependencies

External Job	DependencyType	External Process	External Schedule Name	External Dependency Status	External Dependency Enabled
Wh_Fnd_ProcessFlow_From_RMS#end	EXTERNAL			PENDING	<input checked="" type="checkbox"/>
WeeklySales_Tx_ProcessFlow_From_RMS#end	EXTERNAL			PENDING	<input checked="" type="checkbox"/>
WeeklySales_Tx_FileCreator_ProcessFlow_From_RMS#end	EXTERNAL			PENDING	<input checked="" type="checkbox"/>
Uda_Fnd_ProcessFlow_From_RMS#end	EXTERNAL			PENDING	<input checked="" type="checkbox"/>
UdaValues_Fnd_ProcessFlow_From_RMS#end	EXTERNAL			PENDING	<input checked="" type="checkbox"/>
UdaItemLov_Fnd_ProcessFlow_From_RMS#end	EXTERNAL			PENDING	<input checked="" type="checkbox"/>
UdaAndUdaValues_Fnd_ProcessFlow_From_RMS#end	EXTERNAL			PENDING	<input checked="" type="checkbox"/>
UdaAndUdaValues_Fnd_FileCreator_ProcessFlow_From_RMS#end	EXTERNAL			PENDING	<input checked="" type="checkbox"/>


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

The following information is displayed for each external dependency:

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

- A **Disable/Enable** button to disable or enable the dependency.

## Inter-Schedule Dependencies

Inter-Schedule Dependencies					
Status	Source Job	Target Job	Target Process	Target Schedule	
 Pending	<a href="#">ZIP_FILE_WAIT_JOB</a>	<a href="#">ALCDTAILSSDE_JOB</a>	<a href="#">ALCDTAILSSDE_PROCESS</a>	<a href="#">RDE</a>	<input type="button" value="Disable"/>

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

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

- **Status**
- **Source Job** - Click to open the job in the [Batch Job Details](#) screen.
- **Target Job** - Click to open the job in the [Batch Job Details](#) screen. Target job is dependent on the source job.
- **Target Process** - Process containing the target job.
- **Target Schedule** - Schedule containing the target process/job.
- A **Disable/Enable** button to disable or enable the dependency.

## Schedule Links

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

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

The following information is displayed for each schedule link:

- **Status**
- **Source Job** - Click to open the job in the [Batch Job Details](#) screen. The job in the current schedule which starts the current batch when the Target Job completes.
- **Target Job** - Click to open the job in the [Batch Job Details](#) screen. The job in the Target Schedule which when completes fulfills the dependency for the Source Job in the current schedule.
- **Target Process** - The process which the Target job belongs to. - The schedule whose job is a dependency for the job in the current schedule.
- **Info** - Shows information regarding error if failed or skipped.
- **Target Schedule**

- If it was not successful, a **Retry** button to retry the schedule link.

## Callbacks

### Callbacks

Status	Job	Process	Date	Payload	Info	
Failed	<a href="#">W_INT_ORG_DH_RTL_TMP_JOB</a>	LOAD_DIM_INITIAL_ADHOC		<a href="#">Payload</a>	<a href="#">Info</a>	<a href="#">Retry</a>
Failed	<a href="#">W_RTL_ORG_RECLASS_TMP_JOB</a>	LOAD_DIM_INITIAL_ADHOC		<a href="#">Payload</a>	<a href="#">Info</a>	<a href="#">Retry</a>

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

The following information is displayed for each callback:

- Status
- Job - Click to open the job in the [Batch Job Details](#) screen.
- Process - Process containing the job.
- Date of callback
- A **Payload** link to display the [Callback - Payload Window](#) for the callback.
- An **Info** link to display the [Callback - Info Window](#) describing the callback response.
- If the callback was not successful, a **Retry** button to retry the callback.

## Nightly and Recurring Batch Jobs

**RPASCE Nightly Batch Jobs**

Status	Job	Application	Last Update	Parameter	Job Type	Process Name	Process Status	Log	Job Description	Start Time
Loaded	<a href="#">RPAS_DAILY_END_JOB</a>	RPAS	01/09/23 15:46:42 GMT+5:30	#SysOpt...	EXEC	RPAS_BATCH_END_PROCESS5	Loaded		RPAS Daily End Job	
Loaded	<a href="#">RDF_WEEKLY_POST_JOB</a>	RDF	01/09/23 15:46:42 GMT+5:30	#SysOpt...	EXEC	RDF_BATCH_PROCESS52	Loaded		RDF Weekly Post-Job	
Loaded	<a href="#">RDF_WEEKLY_JOB</a>	RDF	01/09/23 15:46:42 GMT+5:30	#SysOpt...	EXEC	RDF_BATCH_PROCESS52	Loaded		RDF Weekly Job	
Loaded	<a href="#">RDF_WEEKLY_PRE_JOB</a>	RDF	01/09/23 15:46:42 GMT+5:30	#SysOpt...	EXEC	RDF_BATCH_PROCESS51	Loaded		RDF Weekly Pre-Job	
Loaded	<a href="#">APPGAL_WEEKLY_POST_JOB</a>	APPGAL	01/09/23 15:46:42 GMT+5:30	#SysOpt...	EXEC	APPGAL_BATCH_PROCESS52	Loaded		APPGAL Weekly Post-Job	
Loaded	<a href="#">APPGAL_WEEKLY_JOB</a>	APPGAL	01/09/23 15:46:42 GMT+5:30	#SysOpt...	EXEC	APPGAL_BATCH_PROCESS52	Loaded		APPGAL Weekly Job	
Loaded	<a href="#">MFP_WEEKLY_JOB</a>	MFP	01/09/23 15:46:42 GMT+5:30	#SysOpt...	EXEC	MFP_BATCH_PROCESS52	Loaded		MFP Weekly Job	
Loaded	<a href="#">MFP_WEEKLY_POST_JOB</a>	MFP	01/09/23 15:46:42 GMT+5:30	#SysOpt...	EXEC	MFP_BATCH_PROCESS52	Loaded		MFP Weekly Post-Job	

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

- Status
  - Loaded - Jobs are in loaded state when the scheduler day is first created.
  - Pending - Job is waiting to run.
  - Completed - Job ran successfully on the system.
  - Error - A failure occurred due to an issue in the environment or the job's application.
  - Held - An administrator placed the job on hold.
  - Skipped - An administrator has skipped the running of the job so the remaining jobs in the cycle can proceed.

- Running - Job is currently running on the system.
- Long Running - The job's run time has exceeded a threshold. If a Threshold Run Time is specified for the job on the Edit Job popup of the Batch Administration screen, then a job is deemed long running if its current run time exceeds that value. Otherwise, if a Threshold Run Time is not specified, then the job is deemed long running when its current run time exceeds the Long Run Average Time Multiplier (specified on the Edit Settings popup of the System Configuration screen) times the average run time of that job. For example, if a job's average run time is 3 minutes, and the Long Run Average Time Multiplier is 3, then the job is considered long running if it has been running for at least 9 minutes. A notification is sent when a job is deemed long running.
- Disabled - Job was disabled by an administrator on the [Batch Administration](#) screen.
- System Held - Job was placed on hold by the system due to a lack of resources to run it.
- Skipped on Error - Job was preconfigured to be skipped on a failure.
- Waiting - Job is waiting for completion of pre-dependencies (Hourly Cycle, Nightly Cycle, External Dependency and Inter-Schedule Predecessor Jobs).
- Job - Click to open the job in the [Batch Job Details](#) screen.
- Application
- Last Update
- Parameter
- Job Type - Depending on the value, determines if a job is service based or shell script based.
- Process Name
- Process Status
- Log - When the job is in error, this field will display a down-arrow icon which when clicked will display the content of the log.
- Job Description
- Start Time
- End Time
- Duration
- Average Run Time
- Average Historical Run Time
- Number of Runs
- Error Source
- Waiting
- Waiting Reasons

## Action Menu and Icons

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

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

Actions Menu/Icons	Description
Show Disabled	Use the <b>Actions &gt; Show Disabled</b> or <b>Show Disabled</b> . 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 <b>Actions &gt; Hold</b> or the <b>Hold</b> button to put the process on hold.
Skip	Use the <b>Actions &gt; Skip</b> or the <b>Skip</b> button to skip the process.
Run	Use the <b>Actions &gt; Run</b> or the <b>Run</b> button to run the process immediately.
Rerun	Use the <b>Actions &gt; Rerun</b> or the <b>Rerun</b> button to run the job again.
Kill	<p>Use the <b>Action&gt;kill</b> or the <b>Kill</b> button to stop the execution of the job.</p> <p>The job needs to be running for this action to be enabled. When the Kill command is enacted on the screen one of two confirmation messages opens depending on whether a cleanup script is associated with the job being killed.</p> <p>If a cleanup script is associated with the job, the confirmation message presented is "a cleanup will be performed after this job is terminated. It is advisable to wait a few minutes after termination before proceeding with the remaining batch schedule" This is because it may take a minute or so for the cleanup to complete.</p> <p>If a cleanup script is not associated with the job, the user is cautioned to make sure he or she is sure about proceeding without a cleanup script.</p> <p>That maybe be acceptable, as not all jobs require cleanup when terminated. The confirmation message in this case is "there is no post termination cleanup script associated with this job. the job will be terminated but not post cleanup will be performed. This may or may not be ok for this job. Check with Oracle Support if this is a concern.</p>
Edit Parameters	Use the <b>Actions &gt; Edit Parameters</b> or the <b>Edit Parameters</b> 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.

## 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

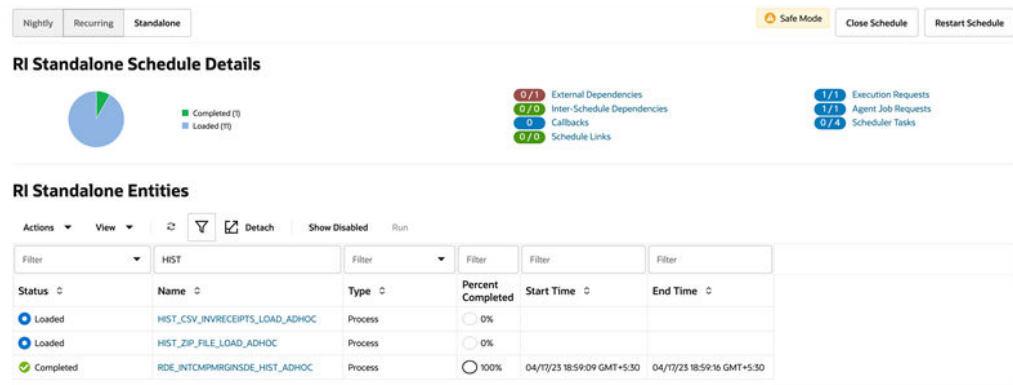
given status and helpful suggestions for resolving the issue. An example is shown below for a job in error.



## Standalone Batch Jobs

The standalone tab displays the job run details for the Standalone cycle in master-detail form. The master table contains the list of ad hoc flows/ processes and the detail table shows the list of jobs under a selected flow/ process.

**Figure 2-10 Standalone Entities**



The Standalone Entities section displays a master table that lists the following information:

- 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 – Flows/processes which are in Loaded status, are marked cancelled when the scheduler day is closed.
- Name
- Type
  - Flow
  - Process
- Percent Completed
- Start Time
- End Time

## Action Menu and Icons

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

Actions Menu/Icons	Description
Show Disabled	Use the <b>Actions &gt; Show Disabled</b> or <b>Show Disabled</b> . By Default, the table won't show any jobs with Disabled Status. Use <b>Show Disabled</b> button or action to see the list of Disabled jobs.
Run	Use the <b>Actions &gt; Run</b> or the <b>Run</b> button to run the process or flow immediately.

**Figure 2-11 Standalone Entities and the Related Batch Jobs**

The screenshot displays two tables in the Oracle BI interface. The top table, 'RI Standalone Entities', has columns for Status, Name, Type, Percent Completed, Start Time, and End Time. It lists three items: 'AdhocTest\_2' (Loaded, Flow, 0%), 'LOAD\_DIM\_INITIAL\_ADHOC' (Loaded, Process, 0%), and 'AdhocTest\_1' (Completed, Flow, 100%). The bottom table, 'LOAD\_DIM\_INITIAL\_ADHOC Batch Jobs', has columns for Status, Job, Application, Last Update, Parameter, Job Type, Process Name, Process Status, and Log. It lists four batch jobs, all with a 'Loaded' status and 'LOAD\_DIM\_INITIAL\_ADHOC' as the process name. The interface includes various action buttons like 'Show Disabled', 'Run', and 'Refresh'.

Clicking on a row in the Standalone Entities table, refreshes the Batch Jobs table, lists the jobs of the selected standalone flow/process and displays the information similar to what is listed in the [Nightly and Recurring Batch Jobs](#) section above.

## Standalone Execution Details

Figure 2-12 Standalone Executions

The screenshot displays the 'LOAD\_DIM\_INITIAL\_ADHOC Execution Detail' modal window. At the top, it shows 'Process Status: Completed' with a green checkmark and a 'Run' button. Below this is a 'Flow Diagram' section. The main area is titled 'LOAD\_DIM\_INITIAL\_ADHOC Executions' and contains a table with the following data:

Status	Execution ID	Process Exec ID	Start Time	End Time
Completed	233	30546	12/15/22 16:31:03 GMT+5:30	12/15/22 16:33:51 G...
Completed	235	30549	12/15/22 16:39:05 GMT+5:30	12/15/22 16:42:30 ...
Completed	236	30571	12/15/22 16:47:26 GMT+5:30	12/15/22 16:51:16 G...
Completed	237	30573	12/15/22 17:01:05 GMT+5:30	12/15/22 17:03:56 ...
Completed	238	30574	12/15/22 17:05:26 GMT+5:30	12/15/22 17:09:21 G...
Completed	281	30639	12/15/22 19:31:17 GMT+5:30	12/15/22 19:54:01 G...
Cancelled	710	30676	12/15/22 19:40:06 GMT+5:30	12/15/22 19:54:01 G...

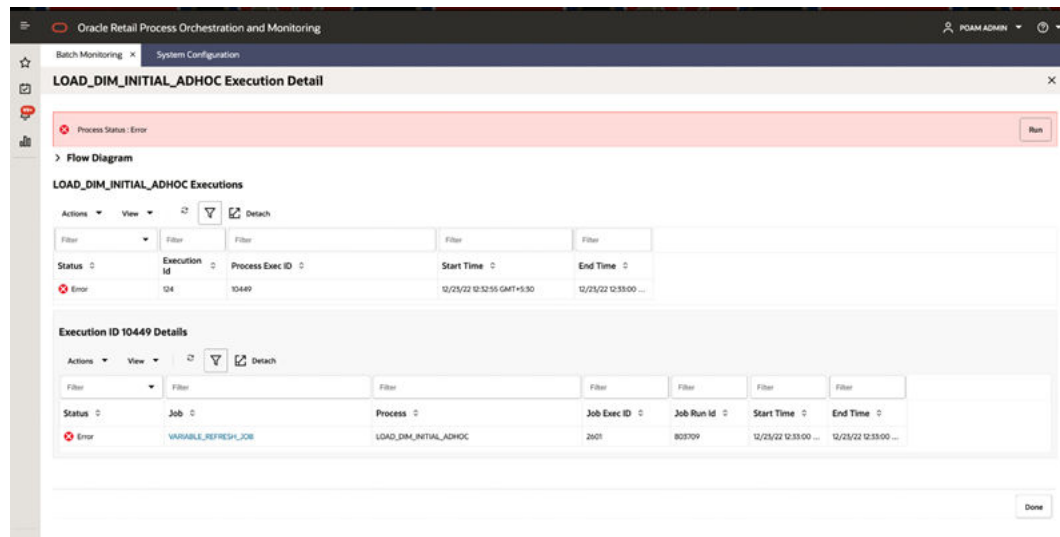
Below the table is the 'Execution ID 30574 Details' section, which is currently empty, showing 'No items to display'.

Clicking on an entity link (for example, `LOAD_DIM_INITIAL_ADHOC`) from the Standalone Entities (master) 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 2-13 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 2-14 Batch Job Details**

Batch Job Details

Job STOP\_RIB\_ADAPTOR\_INV\_JOB

Job Status: Skipped Release Skip

**Executions**

Status	ID	Job Run ID	Start Time	End Time	Log
Error	21641	413116			Log

**Pre Dependencies**

Status	Job	Process
Completed	DUMMY_START_NIGHT_BATCH_JOB	DUMMY_START_NIGHT_BATCH_PROCESS

**Post Dependencies**

Status	Job	Process
Completed	DISABLE_RIB_PUB_TRIGGER_JOB	DISABLE_RIB_PUB_TRIGGER_PROCESS

**External Dependencies** *No External Dependencies found*

**Inter-Schedule Dependencies** *No Inter-Schedule Dependencies found*

**Schedule Links**

Status	Job	Process	Schedule	
Skipped	REFRESHOONVARIABLES_JOB	SETUP_PROCESS	RDE	Retry

**Callbacks**

Status	Job	Process	Payload	Info	
Failed	STOP_RIB_ADAPTOR_INV_JOB	STOP_RIB_ADAPTOR_INV_PROCESS	Payload	Info	Retry

Refresh Done

**Figure 2-15 Batch Job Details with Status Information**

Batch Job Details

Job LIKESTOREBATCH\_JOB

Job Status: Error  
Reason: This Job has failed during execution at the Job Admin.  
Resolution: Please reach out to the POM support team, for further investigation. Skip Rerun

**Execution Requests**

Status	Execution ID	Job Run ID	Request Time	
Error	101	255071	02/23/21 15:15:10	Error Info

**Executions**

Status	ID	Job Run ID	Start Time	End Time	Log
Error	1720	255071	02/23/21 15:15:10 CST	02/23/21 15:15:10 CST	Log

**Pre Dependencies** *No Pre Internal Dependencies found*

**Post Dependencies** *No Post Internal Dependencies found*

**External Dependencies** *No External Dependencies found*

**Inter-Schedule Dependencies** *No Inter-Schedule Dependencies found*

**Schedule Links** *No Schedule Links found*

**Callbacks** *No Callbacks found*

Refresh Done

## Execution Requests

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

- Status
- Execution ID
- Request Time
- 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 execution log.

## Pre Dependencies

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

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


## Post Dependencies

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

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

## External Dependencies

### External Dependencies


Status	Job	
 Pending	Testing Job	<input type="button" value="Disable"/>

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

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

## Inter-Schedule Dependencies

### Inter-Schedule Dependencies


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

An inter-schedule dependency links the current schedule and a target schedule where a job in the target schedule is dependent on the completion of the currently displayed job in the current schedule. This section displays the following information about job inter-schedule dependencies:

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

## Schedule Links

### Schedule Links

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

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

- **Status**
- **Job** - Click to open the job in the [Batch Job Details](#) screen. The job in the Target Schedule that., when completed, will fulfill the dependency for the currently displayed schedule.
- **Process** - The process the job belongs to.
- **Schedule** - The schedule whose job is a dependency for the job in the current schedule.

- Info - Shows information regarding error if failed or skipped.
- A **Disable/Enable** button is available for jobs that have not yet completed.
- A **Retry** button is available for schedule links with a Skipped or Failed status.

## Callbacks

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

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

- Status
- Job - Click to open the job in the [Batch Job Details](#) screen.
- Process
- A **Payload** link to display the [Callback - Payload Window](#) for the callback.
- An **Info** link to display the [Callback - Info Window](#) describing the callback response.
- A **Retry** button is available for callbacks with a Skipped or Failed status.

## Callback - Payload Window

The callback payload window shows the field name and value for each field in the payload. Select **Done** to close the window.

**Figure 2-16** Callback Payload Window

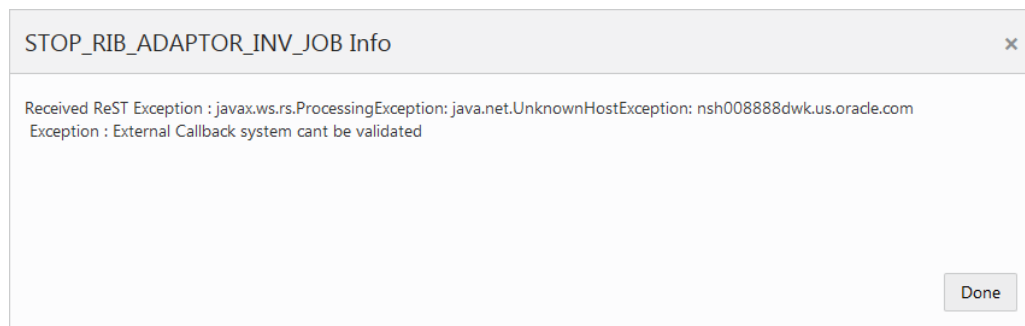
STOP_RIB_ADAPTOR_INV_JOB Payload		✕
externalURL	http://nsh008888dwk.us.oracle.com:8018/ExternalCallbackTestAp...	
processName	MERCH_DUMMY_START_NIGHT_BATCH_PROCESS	
processExecutionId	MERCH_DUMMY_START_NIGHT_BATCH_PROCESS~316	
activityName	STOP_RIB_ADAPTOR_INV_JOB	
activityExecutionId	413116	
callBackServiceDataDetail.rootProcess	MERCH_DUMMY_START_NIGHT_BATCH_PROCESS	
callBackServiceDataDetail.rootProcessExecId	MERCH_DUMMY_START_NIGHT_BATCH_PROCESS~316	
status	ERROR	
activityStatus	ACTIVITY_FAILED	
		<input type="button" value="Done"/>

## Callback - Info Window

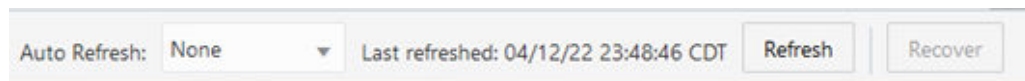
The callback info window shows information about a request and response.

Select **Done** to close the window.

**Figure 2-17** 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 **Recover** button to automatically attempt fixing system failures and resume the schedule. This is useful if there is a system or communications failure that interrupts the execution of a schedule.

**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 2-18 Status Sidebar

The screenshot shows a sidebar titled "Environment Status" with a close button (X) in the top right. Below the title, it displays "Last Updated: 4/12/22 at 11:28PM" and a refresh icon. The sidebar contains two green status boxes: "Scheduler" with an "Admin" link and "Execution Engine" with a "Config" link. Below these are five entries, each with a red "X" icon, a name, "Health Check", a link icon, and a toggle switch labeled "Active".

Component	Status	Action
Scheduler	Active	Admin
Execution Engine	Active	Config
MERCH	Health Check (Failed)	Link
RDE	Health Check (Failed)	Link
RI	Health Check (Failed)	Link
RPASCE	Health Check (Failed)	Link
RSP	Health Check (Failed)	Link

## Scheduler

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

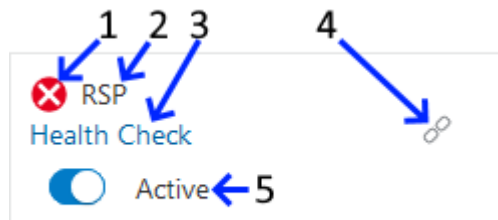
## Execution Engine

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

## Environment Statuses

Displays the following for each environment:

**Figure 2-19 Environment Status**



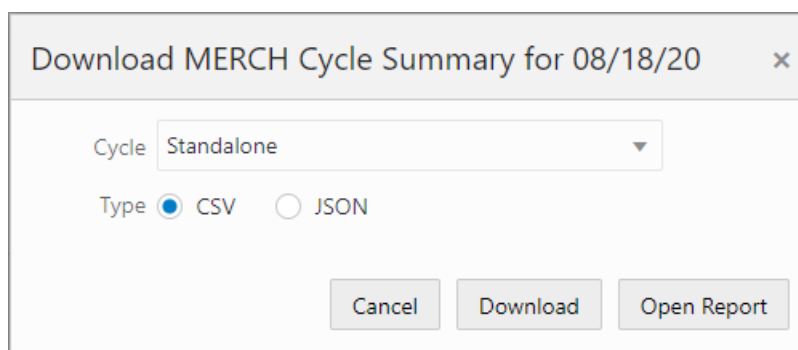
- 1. Status** - Icon indicating the current status of the integration with the environment. This will be either success or error .
- 2. Schedule** - Display Name of the Schedule
- 3. Health Check** - Opens the [Health Check](#) for the schedule.
- 4. Link** - An icon which indicates if Inter-Schedule Dependencies are enabled or disabled.
- 5. 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.

## Download Cycle Summary

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

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



**Figure 2-20 Download Cycle Summary Window**

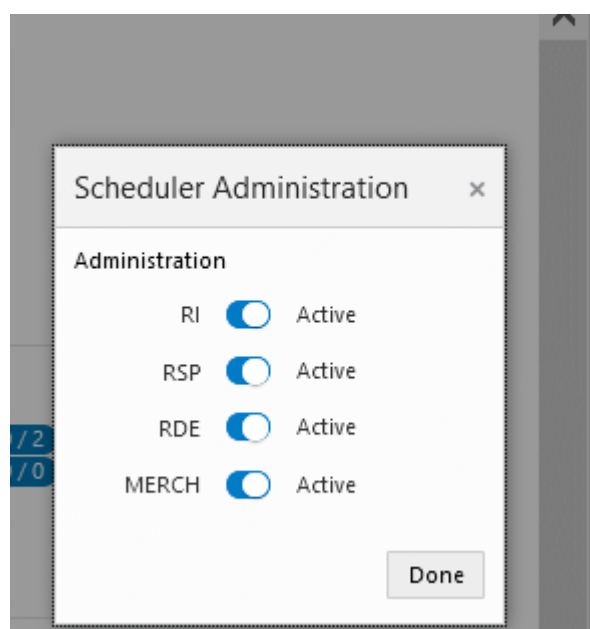
2. Use the **Cycle** menu to select the cycle for which to download the summary.
3. Select the **Type** of data to download: **CSV** (comma-separated values) or **JSON**.
4. Click **Download** to download the summary file, or click **Cancel** to close the window without downloading.
5. Click **Open Report**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

## Scheduler Administration Window

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

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

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

**Figure 2-21 Scheduler Administration Window**

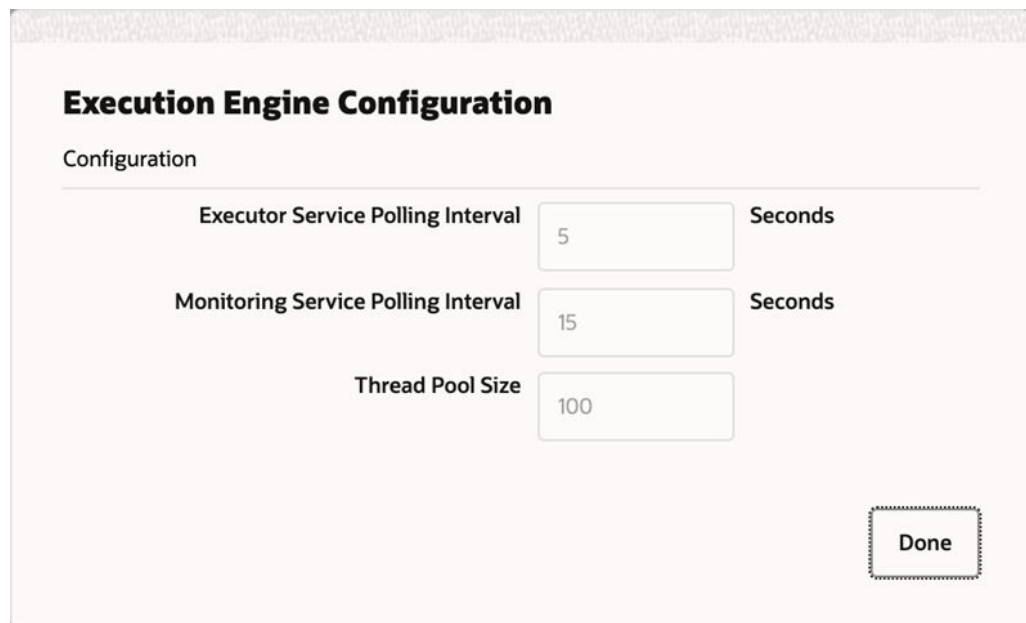
## Execution Engine Configuration

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 2-22 Execution Engine Configuration Window**



**Execution Engine Configuration**

Configuration

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

**Done**

- **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 2-23 Health Check Window

Severity	Source
✘ ERROR	<b>POM - PSRAF</b> PSRAF is not configured [BASIC_AUTH]
✘ ERROR	<b>External Callback</b> Received ReST Exception : javax.ws.rs.ProcessingException: java.net.ConnectException: Tried all: '1' addresses, but could not connect over HTTP to server: 'nsh00dww.us.oracle.com', port: '8' failed reasons: [0] address:'nsh00dww.us.oracle.com/10.91.129.60',port:'8' : java.net.ConnectException: Connection refused http://nsh00dww.us.oracle.com:8/ExternalCallbackTestApp/batch/test [BASIC_AUTH_MODE]
✘ ERROR	<b>Job Admin Agent [RSP]</b> Unauthorized : Recheck Map [ProcessServices.oracle.retail.apps.process.services.app], Key[processservicesadmin] http://nsh00eai.us.oracle.com:8010/RmsJobAdminAgent [BASIC_AUTH_MODE]
✔ SUCCESS	<b>Execution Engine</b> Available http://nsh00jul.us.oracle.com:8020/ExecutionEngine [BASIC_AUTH_MODE]
✔ SUCCESS	<b>Execution Engine - Job Admin [RSP]</b> Available http://nsh00eai.us.oracle.com:8010/jos-rms-batch-job-admin [BASIC_AUTH_MODE]
✔ SUCCESS	<b>POM - Job Admin RSP</b> Available http://nsh00eai.us.oracle.com:8010/jos-rms-batch-job-admin [BASIC_AUTH_MODE]

Done

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.
- **Source** - The name of the process and the response received by the process.

## Activity Feed

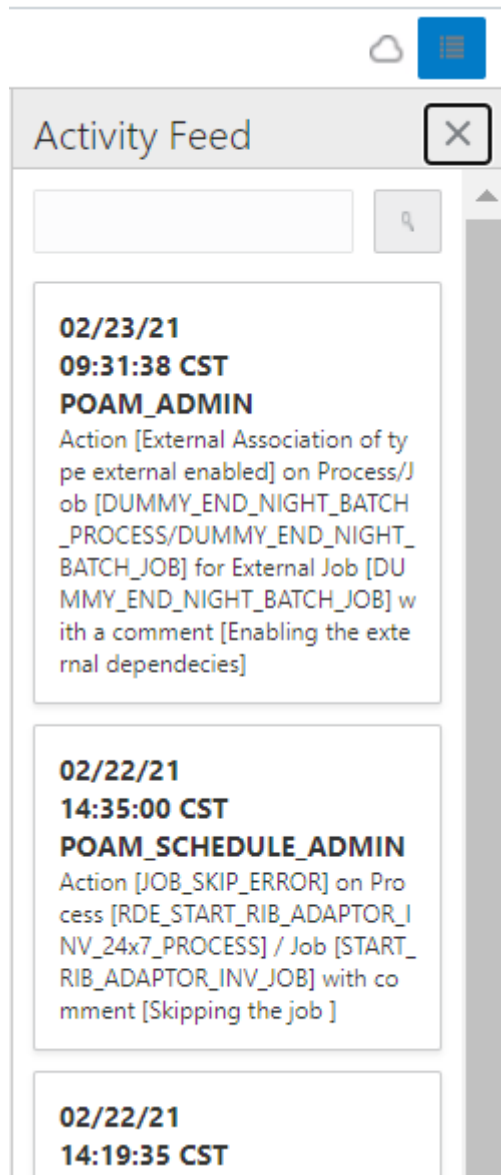
The Batch Monitoring screen includes an Activity Feed icon at the top right corner.



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

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

Figure 2-24 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 [Navigation Area](#) to open the System Configuration screen and select the Schedules tab. This tab displays the schedule level configurations for each schedule setup for this environment.

Figure 2-25 System Configuration

Schedules		System		Global Edit	Configure New Schedule
MERCH 21.6	RI 21.13.20	RDE 21.18.001.20	RSP 21.5.100.10	RPASCE 19.0.4	
Business Date: 01/19/22 Last Schedule Update:	Business Date: 01/22/22 Last Schedule Update:	Business Date: 03/22/22 Last Schedule Update:	Business Date: 02/12/22 Last Schedule Update:	Business Date: Last Schedule Update:	Business Date: Last Schedule Update:
Settings <input type="checkbox"/>	Settings <input type="checkbox"/>	Settings <input type="checkbox"/>	Settings <input type="checkbox"/>	Settings <input type="checkbox"/>	Settings <input type="checkbox"/>
Data Retention Days <b>2</b>	Data Retention Days <b>3</b>	Data Retention Days <b>30</b>	Data Retention Days <b>35</b>	Data Retention Days <b>5</b>	Data Retention Days <b>5</b>
Long Run Average Time Multiplier <b>3</b>	Long Run Average Time Multiplier <b>22</b>	Long Run Average Time Multiplier <b>2</b>	Long Run Average Time Multiplier <b>2</b>	Long Run Average Time Multiplier <b>5</b>	Long Run Average Time Multiplier <b>5</b>
External Dependencies <b>Enabled</b>	External Dependencies <b>Enabled</b>	External Dependencies <b>Enabled</b>	External Dependencies <b>Enabled</b>	External Dependencies <b>Enabled</b>	External Dependencies <b>Enabled</b>
InterSchedule Dependencies <b>Disabled</b>	InterSchedule Dependencies <b>Disabled</b>	InterSchedule Dependencies <b>Enabled</b>	InterSchedule Dependencies <b>Enabled</b>	InterSchedule Dependencies <b>Enabled</b>	InterSchedule Dependencies <b>Enabled</b>
Throttling <input type="checkbox"/>	Throttling <input type="checkbox"/>	Throttling <input type="checkbox"/>	Throttling <input type="checkbox"/>	Throttling <input type="checkbox"/>	Throttling <input type="checkbox"/>
Job Agent ALLOC Throttle Limit <b>12</b>	Job Agent RIS Throttle Limit <b>13</b>	Job Agent RDE Throttle Limit <b>12</b>	Job Agent RIS Throttle Limit <b>4</b>	Job Agent RP Throttle Limit <b>4</b>	Job Agent RP Throttle Limit <b>4</b>
Environment <input type="checkbox"/>	Environment <input type="checkbox"/>	Environment <input type="checkbox"/>	Environment <input type="checkbox"/>	Environment <input type="checkbox"/>	Environment <input type="checkbox"/>
ALLOC <b>22.1.201.0</b>	RIS <b>22.1.201.0</b>	RDE <b>22.1.201.0</b>	RIS <b>22.1.201.0</b>	RIS <b>22.1.201.0</b>	RPASCE <b>22.1.201.0</b>
RMS <b>22.1.201.0</b>					
External Configuration <input type="checkbox"/>	External Configuration <input type="checkbox"/>	External Configuration <input type="checkbox"/>	External Configuration <input type="checkbox"/>	External Configuration <input type="checkbox"/>	External Configuration <input type="checkbox"/>
External URL	External URL	External URL	External URL	External URL	External URL
External Status Update Mode <b>FAILED</b>	External Status Update Mode <b>NONE</b>	External Status Update Mode <b>NONE</b>	External Status Update Mode <b>NONE</b>	External Status Update Mode <b>ALL</b>	External Status Update Mode <b>ALL</b>
Credentials <b>Yes</b>	Credentials <b>Yes</b>	Credentials <b>No</b>	Credentials <b>No</b>	Credentials <b>No</b>	Credentials <b>No</b>
Job Type <input type="checkbox"/>	Job Type <input type="checkbox"/>	Job Type <input type="checkbox"/>	Job Type <input type="checkbox"/>	Job Type <input type="checkbox"/>	Job Type <input type="checkbox"/>
<i>No Job Types Configured</i>	<i>No Job Types Configured</i>	<i>No Job Types Configured</i>	CJTCUSTOM MOCKTEST	<i>No Job Types Configured</i>	<i>No Job Types Configured</i>

## Configure New Schedule

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

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

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

**Figure 2-26 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** - A short identifier of the new schedule. This usually matches the main application name such as Merchandising, RI, and so on.
  - **Description** - A short description of the schedule.
- **External System Configuration** - 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** - Internal Oracle services for retrieving information stored there by other applications or systems. Attribute for this section is:
  - **URL**
- **Job Agent** - 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**
- **Schedule Variables** - 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** - This section allows for entry of services POM integrates with. These include the BDI Process Services, IDCS or OCI IAM, and all services corresponding to the different applications with service-type batch jobs. Attributes for this section are:
  - **Type** - This is a drop down for all the possible service types; for example, the RI Web Services URL which POM would use to invoke RI service-based batch jobs.
  - **Application** - Application Name to which this service corresponds such as RI.
  - **URL**
- **Job Type** - This is an optional section for setting up one or more custom job types other than the standard, pre-defined job types provided by the retail applications, such as EXEC, RI, RASE, BDI, RDS, OB, OMS, and RPAS. The user then associates a custom job type with the base URL for endpoints at the destination system. These are endpoints for starting a job, restarting a job, killing a job, checking status of a job, fetching the log for a job, and validating the URL. By setting up a custom job type, the user must then create a custom schedule spreadsheet containing jobs with that job type. When this batch schedule runs, POM executes that job using the corresponding, defined Start endpoint. If the user misses the opportunity to configure the job type at this point, they do have the opportunity to add that using the Job Type Configuration screen (see [Create / Edit Job Type](#) for more information). Attributes for this section are:
  - **Name** – A short, alphanumeric identifier of the job type. This typically reflects the system or application where associated jobs are to be executed (for example, RDS).
  - **URL** – Base URL for endpoints at the destination system where batch is to be invoked (for example, `https://server/services/batch`).
  - **OAuth Scope** – Authentication scope for accessing the batch endpoints at the above URL.

## Schedule Settings and Connections Configuration

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

The following information is shown for each environment:

### MERCH 23.0.102 (MERCH)

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

 **Note:**

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

Business Date: 08/19/20  
Last Schedule Update:

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

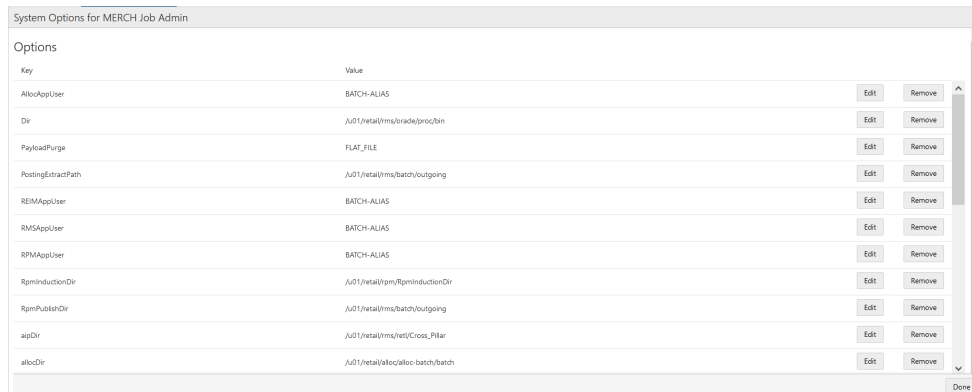
Examples of system options:

**Last Schedule Update** - Last date on which the schedule was updated.

- **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 2-27 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 edit the values, add or remove options.



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

Settings	
Data Retention Days	<b>30</b>
Long Run Average Time Multiplier	<b>2</b>
External Dependencies	<b>Enabled</b>
InterSchedule Dependencies	<b>Enabled</b>

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

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

Throttling	
Job Agent RPASCE Throttle Limit	<b>10</b>

- Job Agent Throttle Limit

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

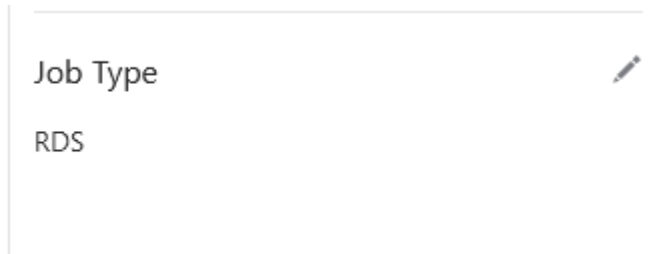
Environment	
RPASCE	<b>21.0.000</b>

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

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


External Configuration	
External URL	<a href="http://ncf.../ExternalCall...">http://ncf.../ExternalCall...</a>
External Status Update Mode	<b>NONE</b>
Credentials	<b>No</b>

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



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

## Edit Settings

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

**Figure 2-28 Edit Settings Window**

The screenshot shows the 'Settings for PLANNING 23.1.201.0' window. It contains the following settings:

- Data Retention Days:** Input field with value '30'. Below it: 'Enter a number greater than or equal to 1.'
- Long Run Average Time Multiplier:** Input field with value '2'.
- Default Average Run Time:** Input field with value '60'.
- Business Date:** Calendar icon and input field with value '07/04/2023'. Below it: 'Current Business Date is 04/09/23'.
- Background Jobs:** Toggle switch set to 'Disabled'.
- External Dependencies:** Toggle switch set to 'Disabled'.
- InterSchedule Dependencies:** Toggle switch set to 'Enabled'.
- Repave Strategy:** Radio buttons for 'Fixed' (selected) and 'Variable'.
- Window Duration:** Input field with value '3,600' and unit 'Seconds'.
- Target Batch Duration:** Input field with value '150' and unit 'Minutes'.

Buttons for 'Cancel' and 'OK' are at the bottom right.

The following settings are available in this window:

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

If a Threshold Run Time is specified on the Edit Job popup of the Batch Administration screen, then a job is deemed long running if its current run time exceeds that value. Otherwise, if a Threshold Run Time is not specified, then the job is deemed long running when its current run time exceeds this Long Run Average Time Multiplier times the average run time of that job. For example, if a job's average run time is 3 minutes, and the Long Run Average Time Multiplier is 3, then the job is considered long running if it has been running for at least 9 minutes. A notification is sent when a job is deemed long running.

- **Default Average Time** - Used instead of multiplying a job's average run time by the Multiplier (on this screen) when the job does not have run history. This is to determine whether a job can run on a certain node when the Node Repaving is upcoming. For example, say a node's repaving is taking place in 30 minutes. If a job has a run history and its average runtime multiplied by the Multiplier is greater than 30 minutes, then the job will run on a different node. If however the job has no run history, then this Default Average Time is used instead.
- **Business Date** - The earliest business date for which to run batch schedules. See [Business Date Explained](#) for an explanation of how POM uses this setting.
- **Background Jobs** - Enable or disable background jobs.
- **External Dependencies** - A switch for enabling or disabling external dependencies.
- **InterSchedule Dependencies** - A switch for enabling or disabling InterSchedule dependencies.
- **Repace 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 strategy for determining when that time is:
  - **Fixed:** Uses the next field's value (Window Duration - in seconds) to determine the time at which the node will start rejecting requests for running jobs. For example, if this value is 3600 seconds, the node will stop accepting requests one hour before the repave starts.
  - **Variable:** Multiplies the next field's value (multiplier) with the job's average run time to determine if the node likely has enough time to run the job to completion. For example, if the multiplier is three and the job about to be submitted for running on this node has an average run time of five minutes and the repave is due to start at a time longer than the 15 minutes (the product of the two numbers), the job will be allowed to run. Otherwise it won't be.

 **Note:**

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

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

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

## Business Date Explained

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

### Note:

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

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

#### **Scenario 1: Common Scenario**

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

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

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

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

#### **Scenario 2: Skip a Few Days**

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


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

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

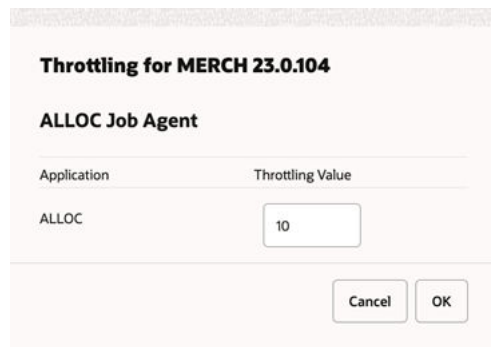
The next schedule run will be for business date 08/18/2019.

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

## Edit Throttling

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

**Figure 2-29** Edit Throttling Window




Application	Throttling Value
ALLOC	10

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

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

## Edit Environment

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

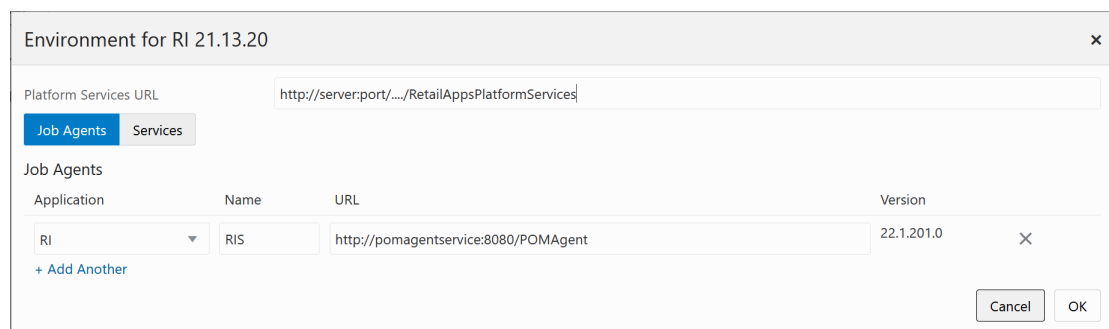


### Note:

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

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

**Figure 2-30** Edit Environment Window



Application	Name	URL	Version
RI	RIS	http://pomagentservice:8080/POMAgent	22.1.201.0

Environment for RI 21.13.20

Platform Services URL

Job Agents Services

Services

Type	Application	URL
RI Web Services URL	RI	xyz.com

+ Add Another

Cancel OK

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 2-31 Job Agent Configuration Window**

RIS Agent Configuration

### Configuration Settings

Name	Value
supportedApps	RSP
scheduleName	RI

### Throttle Groups

Group Name	Throttle Limit
RI	13
RI_RI	13

### Configuration URLs

Type	Url
RIWSURL for RI	xyz.com
RIWSURL	dummy
POM	https://www.oracle.com/.../...
RPASWSURL for rpassce	xyz
IDCS	https://www.oracle.com/.../...
BDIPFURL	https://www.oracle.com/.../...
RIWSURL	xyz
RASEWSURL	service1.html.com.x

### Job Types Configuration

Job Type	Defination	Url
ENG	<a href="#">Info</a>	B T
FRA	<a href="#">Info</a>	www. n

CITCUSTOM [Info](#) [https://www.oracle.com/.../...](#)

Sync With POM Refresh Done

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 job that can execute concurrently). These are defined either on the batch schedule spreadsheet or on the **Throttling** section of this [System Configuration](#) screen.

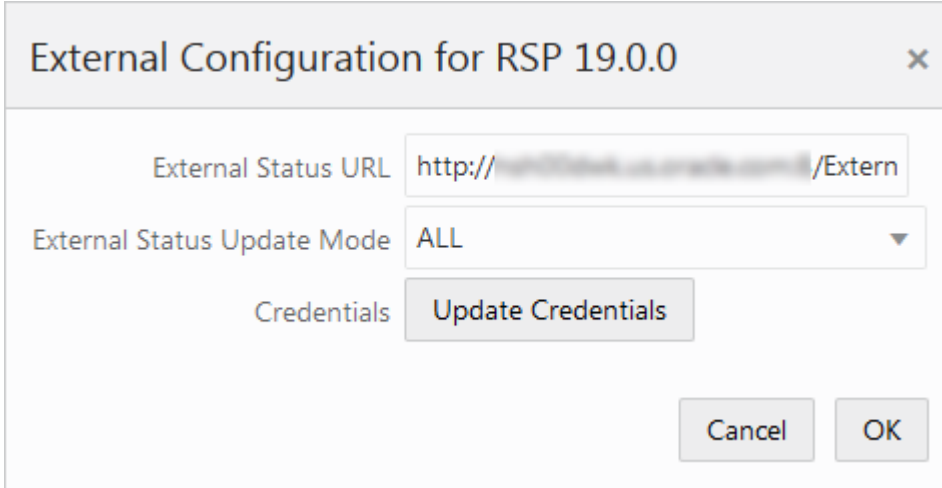
The **Job Types Configuration** section displays all custom job types defined either on the batch schedule spreadsheet or on the **Job Type** section of this [System Configuration](#) screen.

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

## Edit External Configuration

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

**Figure 2-32** Edit External Configuration Window



External Configuration for RSP 19.0.0

External Status URL

External Status Update Mode

Credentials

The following settings are available in this window:

- **External Status URL** - Customer system's URL that is called when POM is to notify the customer's system. Note that this calling feature is also referred to as Callback.
- **External Status Update Mode** - Job status for which POM is to call the customer's URL. This menu has the following options:
  - **ALL** - POM will make a call for each job's execution regardless of success or failure.
  - **FAILED** - POM will make a call only for failed jobs.
  - **NONE** - POM will never make a call.
- **Update Credentials** - When clicked, User Name 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 2-33 Job Types Table**

Job Type	URL	Job Start	Job Restart	Job Status	Job Kill	Job Logs	Validation	Scope	Custom Credential
JobType	http://rdsur.com/	/start	/restart	/status	/kill			scope1	
JobType2	http://rdsurp2.com	/startJobType	/restartJobType	/statusJobType				scope2	✓

Each row contains the fields:

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

## Create / Edit Job Type



A new job type can be created by selecting the Create icon  in the **Job Types** section to open the **Job Type Configuration** window. Alternatively, an existing job type configuration can be changed by selecting the edit icon .

Figure 2-34 Create Job Type

**Create New Job Type For RSTEST**

Job Type

Url

Job Start

Job Restart

Job Status

Job Kill

Job Logs

Validation

OAuth Scope

OAuth Credentials  Use System Default  Use Custom

No Credentials Configured

Client Id  Required

Client Secret  Required

Figure 2-35 Edit Job Type

**JobType2 Job Type**

Url

Job Start

Job Restart

Job Status

Job Kill

Job Logs

Validation

OAuth Scope

OAuth Credentials  Use System Default  Use Custom

Client Id: jobTypeCustomCredentials



**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 2-36 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 2-37 Edit System Settings Window

**System Settings**

**System**

Environment Name: QA111Z

Customer Name: pomQA

**Environment**

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

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

RDS Integration:  Enabled

Retail Data Store URL: http://rdsurl.com

Cancel OK

The following settings are available in this window:

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

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

## 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 2-38 Global Edit Screen**

The screenshot shows the 'Global Edit' interface. At the top, there is a blue banner with an information icon and the text 'Select fields to apply as updates to all schedules.' Below this, the 'Settings' section contains a table with columns 'Apply', 'Label', and 'Value'. The 'Apply' column has checkboxes for each setting. The 'Value' column shows various input types: numeric spinners for 'Data Retention Days' and 'Long Run Average Time Multiplier', a date picker for 'Business Date', and toggle switches for 'Background Jobs', 'External Dependencies', and 'InterSchedule Dependencies'. The 'Repare Strategy' setting has radio buttons for 'Fixed' and 'Variable'. Below the 'Settings' section is the 'External Configuration' section, also with 'Apply', 'Label', and 'Value' columns. It includes 'External URL' (checkbox), 'External Status Update Mode' (checkbox with a dropdown menu currently set to 'ALL'), and 'Credentials' (checkbox) which opens a sub-form with 'Username' and 'Password' input fields.

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

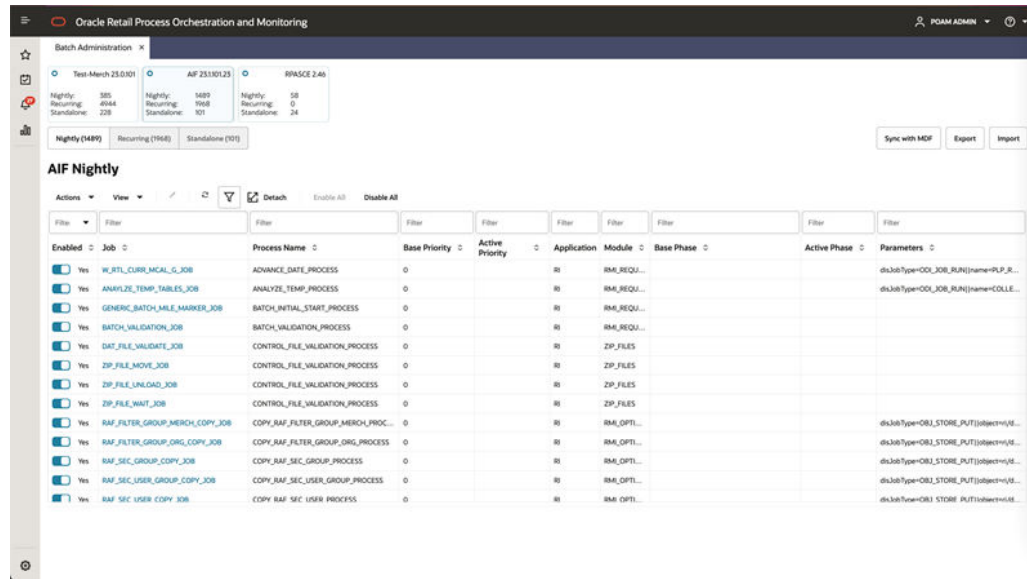
- Data Retention Days
- Long Run Average Time Multiplier
- Business Date
- Background Jobs
- External Dependencies
- InterSchedule Dependencies
- External URL
- External Status Update Mode
- Repare Strategy
- Credentials:
  - Username
  - Password

## 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 2-39 Batch Administration

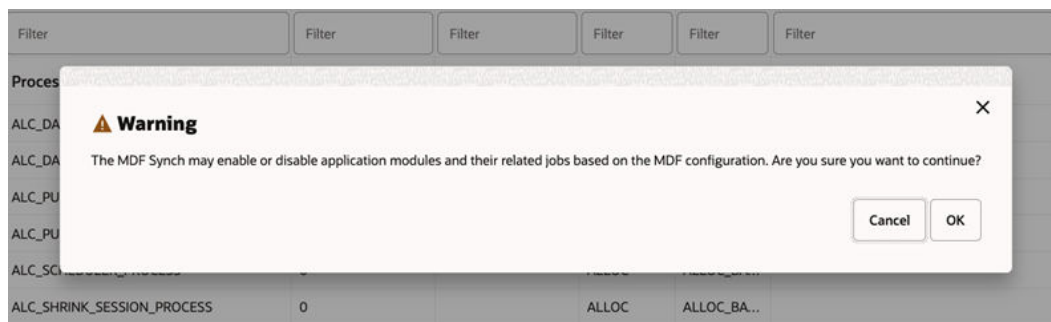


## Batch Administration Header

The Batch Administration header includes the following options:

1. **Batch Tiles** - There is a batch tile for each software environment Process Orchestration and Management connects to. Select a tile to show the batch processes for that environment. See [Batch Tiles](#) for more information about these tiles.
2. **Cycle Tabs** - Displays the cycles for which batch information is to be maintained. Select a cycle tab to see the batch details for that cycle. The following cycles are available:
  - Nightly
  - Recurring
  - Standalone
3. **Sync with MDF** – MDF is the Module Definition Framework maintained in the Retail Home Customer Module Management module of Retail Home. Using the **Sync with MDF** button in POM will sync the modules defined in POM with those in Retail Home. Nightly jobs belonging to those modules are then enabled or disabled based on their state in Retail Home.

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

**Figure 2-40 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:

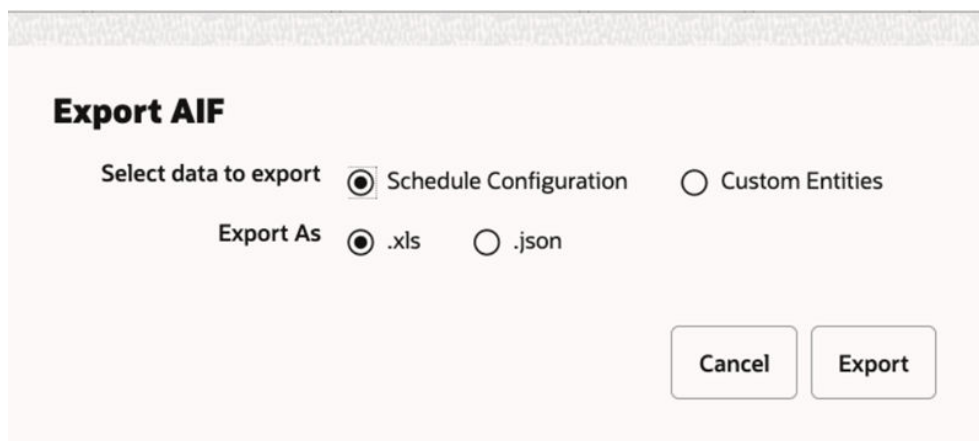
```
{
  "scheduleName": "RI", "synced": true, "enabledModules": [
    {
      "state": "MATCHED_MODULE",
      "mdfStatus": "ENABLED",
      "prevMdfStatusInPom": "ENABLED",
      "prevStatusInPom": "ENABLED",
      "publishToPom": true,
      "applicationName": "RI",
      "moduleName": "RMI_SI_ONORDER",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

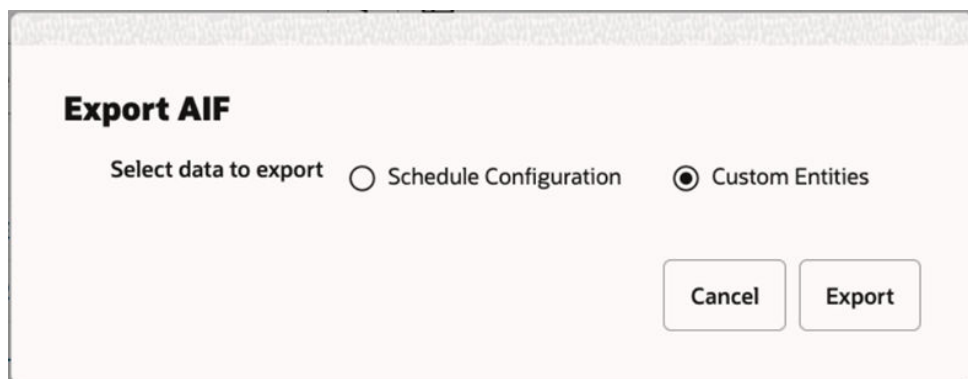
When clicked, the user is presented with a dialog for selecting the data to export – **Schedule Configuration** or **Custom Entities**.

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



The screenshot shows a dialog box titled "Export AIF". Under the heading "Select data to export", there are two radio buttons: "Schedule Configuration" (which is selected) and "Custom Entities". Below this, under the heading "Export As", there are two radio buttons: ".xls" (which is selected) and ".json". At the bottom right of the dialog, there are two buttons: "Cancel" and "Export".

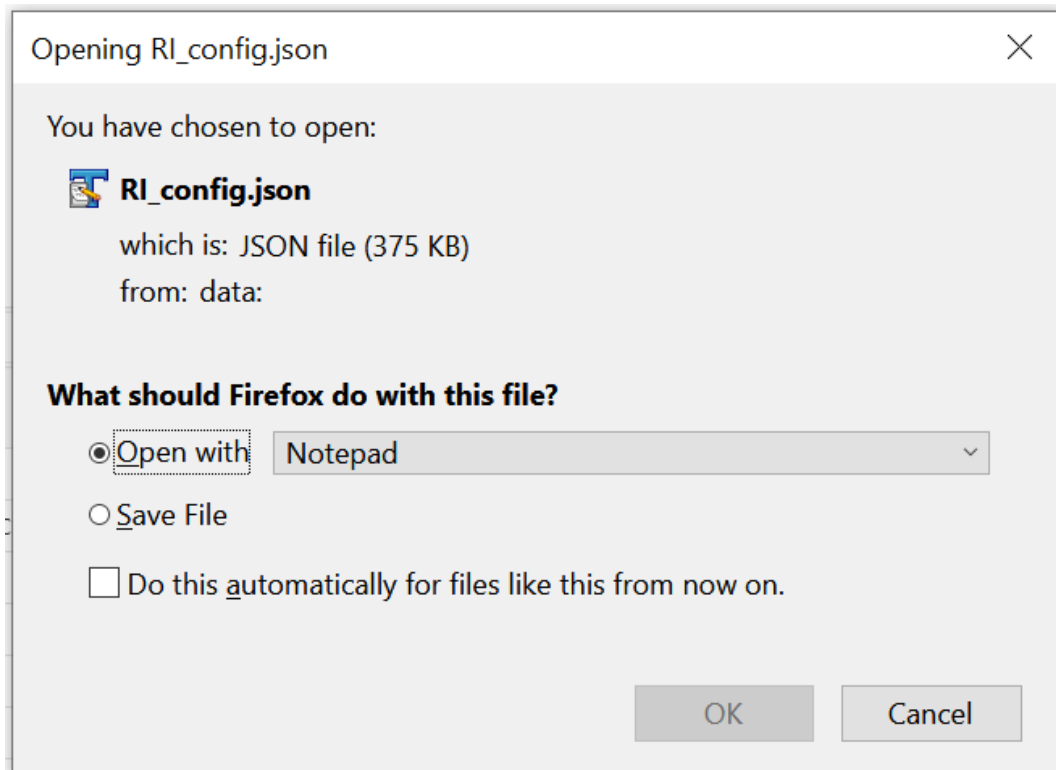
Custom Entities can only be exported as JSON.



The screenshot shows a dialog box titled "Export AIF". Under the heading "Select data to export", there are two radio buttons: "Schedule Configuration" and "Custom Entities" (which is selected). At the bottom right of the dialog, there are two buttons: "Cancel" and "Export".

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





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

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

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

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

### Import AIF

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

Select data to import

Schedule Configuration     Custom Entities

---

Import Scheduler Configuration

Import Jobs Configuration

Import Notifications Configuration

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

### Import AIF

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

Select data to import

Schedule Configuration     Custom Entities

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.

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

Some features are disabled while a schedule is being imported

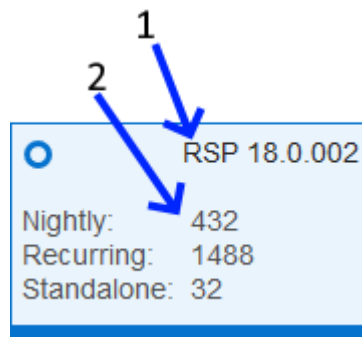
Some features are disabled while a schedule is in a failed state

Some features are disabled while a schedule is being synced

## Batch Tiles

Each tile displays the following information:

**Figure 2-41 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
- Cycles and Statuses** - Displays the number of batch jobs for nightly / recurring cycle and number of ad hoc flows / processes for standalone cycle.

## Batch List

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

- Nightly



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

## Actions Menu and Icons

### Actions Menu and Icons

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

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

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

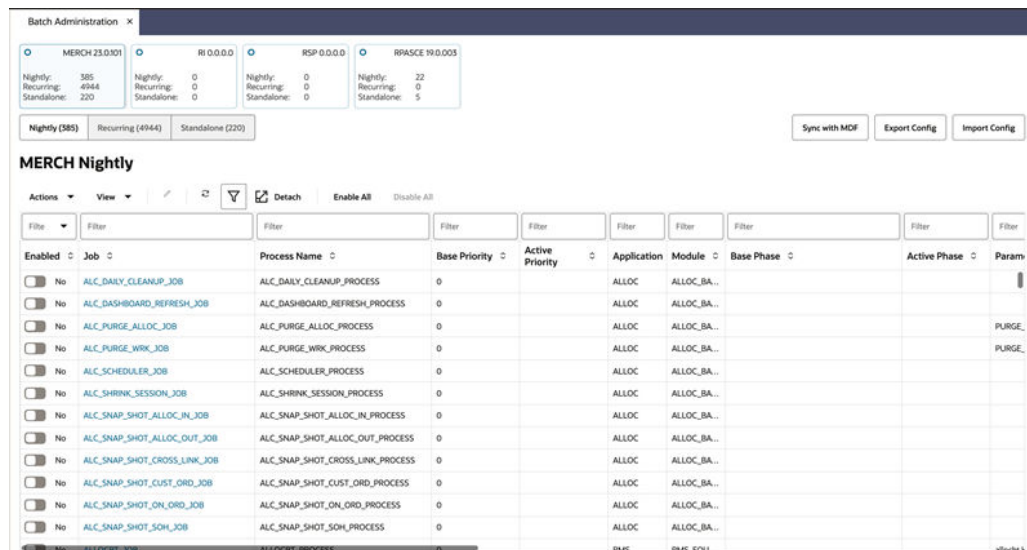
## View Menu

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

## Nightly

The nightly cycle displays the following information for each batch:

**Figure 2-42 Nightly Batch List**



Enabled	Job	Process Name	Base Priority	Active Priority	Application	Module	Base Phase	Active Phase	Param
<input type="checkbox"/>	ALC_DAILY_CLEANUP_JOB	ALC_DAILY_CLEANUP_PROCESS	0		ALLOC	ALLOC_BA...			
<input type="checkbox"/>	ALC_DASHBOARD_REFRESH_JOB	ALC_DASHBOARD_REFRESH_PROCESS	0		ALLOC	ALLOC_BA...			
<input type="checkbox"/>	ALC_PURGE_ALLOC_JOB	ALC_PURGE_ALLOC_PROCESS	0		ALLOC	ALLOC_BA...			PURGE...
<input type="checkbox"/>	ALC_PURGE_WRK_JOB	ALC_PURGE_WRK_PROCESS	0		ALLOC	ALLOC_BA...			PURGE...
<input type="checkbox"/>	ALC_SCHEDULER_JOB	ALC_SCHEDULER_PROCESS	0		ALLOC	ALLOC_BA...			
<input type="checkbox"/>	ALC_SHRINK_SESSION_JOB	ALC_SHRINK_SESSION_PROCESS	0		ALLOC	ALLOC_BA...			
<input type="checkbox"/>	ALC_SNAP_SHOT_ALLOC_IN_JOB	ALC_SNAP_SHOT_ALLOC_IN_PROCESS	0		ALLOC	ALLOC_BA...			
<input type="checkbox"/>	ALC_SNAP_SHOT_ALLOC_OUT_JOB	ALC_SNAP_SHOT_ALLOC_OUT_PROCESS	0		ALLOC	ALLOC_BA...			
<input type="checkbox"/>	ALC_SNAP_SHOT_CROSS_LINK_JOB	ALC_SNAP_SHOT_CROSS_LINK_PROCESS	0		ALLOC	ALLOC_BA...			
<input type="checkbox"/>	ALC_SNAP_SHOT_CUST_ORD_JOB	ALC_SNAP_SHOT_CUST_ORD_PROCESS	0		ALLOC	ALLOC_BA...			
<input type="checkbox"/>	ALC_SNAP_SHOT_ON_ORD_JOB	ALC_SNAP_SHOT_ON_ORD_PROCESS	0		ALLOC	ALLOC_BA...			
<input type="checkbox"/>	ALC_SNAP_SHOT_SOH_JOB	ALC_SNAP_SHOT_SOH_PROCESS	0		ALLOC	ALLOC_BA...			

- Enabled

- Job - Click the Job to open the batch in the [Batch Job Details](#) screen.
- Process Name
- Base Priority - An optional number between 1 and 10 (10 being highest priority) assigned to a process-job combination. This number determines the execution priority for the job amongst concurrent job run requests in a limited throttled setting. The base priority is the value initially seeded from the spreadsheet for this process-job.
- Active Priority - The current priority (1-10) value once altered from the UI. This value if present supersedes the base priority.
- Application - A schedule may be made up of multiple applications. There needs to be at least one application.
- Module - An application may be made up of multiple modules. Modules within an application are optional.
- Base Phase - An optional alphanumeric phase assigned to a process-job for grouping of jobs in the Nightly cycle. This is used for reporting purposes only. The Nightly Summary Report will then report total run time and elapsed time by Phase. The base phase is the value initially seeded from the spreadsheet for this process-job.
- Active Phase - The current phase value once altered from the UI. This value, if present, supersedes the base phase.
- Parameters - A job may be run with a list of input parameters. This column always shows the original list of parameters.
- Active Parameter - This column shows the customized list of parameters.
- Job Type - A Job Type is an attribute of a Job in POM and signifies the kind of Job that is run. POM has the following pre-built Job types. Other custom job type can be used that are built using the Job Type feature of the System Configuration screen.
  - EXEC - For all shell-script based jobs
  - RI - DIS-based jobs for the RI schedule
  - RASE - DIS-based jobs for the RSP schedule
  - BDI - BDI Jobs
  - RPAS - RPAS-Web Service jobs for the RPAS schedule
  - OB – OB-based jobs for the OB schedule
  - OMS – OMS-based jobs for the OMS schedule
  - RDS – RDS-based jobs
- Kill Cleanup Script - Name of a script that will be executed after the kill is performed. This is an optional field as not all jobs require cleanup after termination.
- External Status Update - Job status for which POM is to call a customer's URL. The URL is defined in the External Configuration section of the System Configuration screen. This column has the following possible values:
  - ALL - POM will make a call for this job's execution regardless of success or failure.
  - FAILED - POM will make a call only for if this job fails.
  - NONE - POM will not make a call.
- Notification At
  - Start of Job – Send notification of type JobStarted when the selected job starts.

- Completion of Job - Send notification of type JobCompleted when the selected job completes successfully. Note that there is a separate notification of type Error that is sent when a job fails.
- Skip On Error - Skip this job if it fails.
- Threshold Run Time (Seconds) - Amount of time greater than which the job is deemed long running. If a Threshold Run Time is specified here, then a job is deemed long running if its current run time exceeds that value. Otherwise, if a Threshold Run Time is not specified, then the job is deemed long running when its current run time exceeds the Long Run Average Time Multiplier (defined on the Edit Settings popup of the System Configuration screen) times the average run time of that job. For example, if a job's average run time is 3 minutes, and the Long Run Average Time Multiplier is 3, then the job is considered long running if it has been running for at least 9 minutes. A notification is sent when a job is deemed long running.
- Notes
- Job Name
- Job Wrapper Name
- Days of the Week - Days of the week for which the job is to be run.

The user can select a batch job and click the Edit icon to edit the job information.

Figure 2-43 Edit Nightly Batch Window

**Edit ALC\_DAILY\_CLEANUP\_JOB**

Job Type: EXEC

Enable Job:  Disabled

Priority: 0

Phase: [dropdown]

Parameters: [text area]

Kill Cleanup Script: [text area]

External Status Update: None

Notification At:  Start of Job  
 Completion of Job

Skip On Error:  Disabled

Threshold Run Time (Sec): [text area]

Notes: [text area]

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

Cancel Ok

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

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

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

- Enable Job – Enable or disable a job

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

## Recurring

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

The recurring cycle includes the following information for each batch:



Figure 2-44 Recurring Batch List

The screenshot displays the Oracle Batch Administration interface. At the top, there are four summary boxes for different batch types: MERCH 25.0.0.01, RI 0.0.0.0, RSP 0.0.0.0, and RPASCE 19.0.0.0. Below these are buttons for 'Nightly (385)', 'Recurring (4944)', 'Standalone (220)', and 'Hourly\_Cycle\_1'. The main area is split into two panes. The left pane, titled 'Flows', lists various flows with 'ACTIVITY\_SCHED\_PURGE\_CYCLE' selected. The right pane, titled 'MERCH Recurring - Hourly\_Cycle\_1', shows a table of jobs for the selected flow. The table has columns for Enabled, Job, Process Name, Base Priority, Active Priority, Application, Module, Base Phase, and Active Phase. One job is visible: 'ACTIVITY\_SCHED\_PURGE\_JOB' with process name 'ACTIVITY\_SCHED\_PURGE\_CYCLE\_PROCES...'.

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

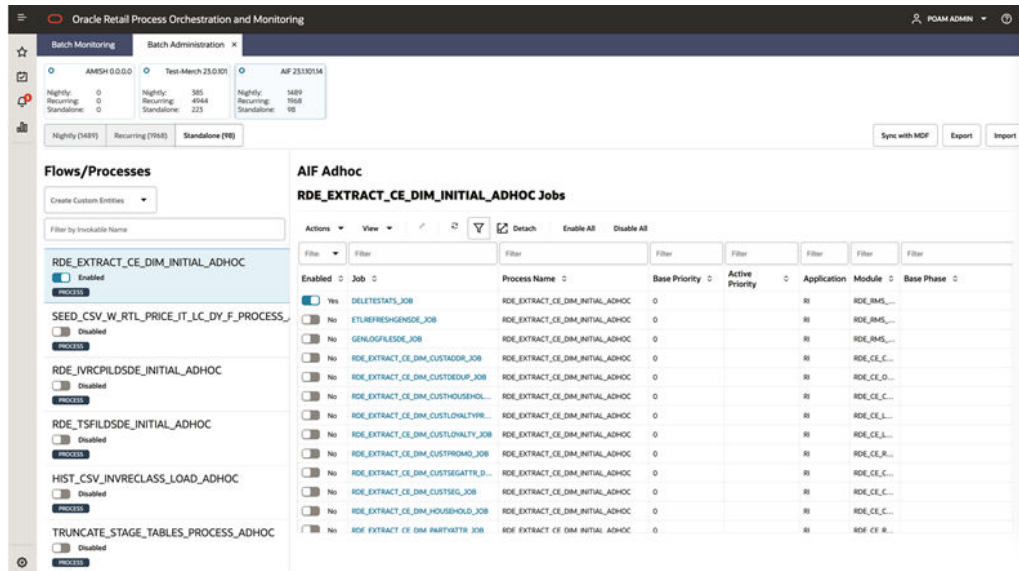
- Skip On Error
- Threshold Run Time (Seconds)
- Notes
- Job Name
- Job Wrapper Name
- Days of the Week

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

## Standalone

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

**Figure 2-45 Standalone Batch Sections**



### Left Pane of the Screen

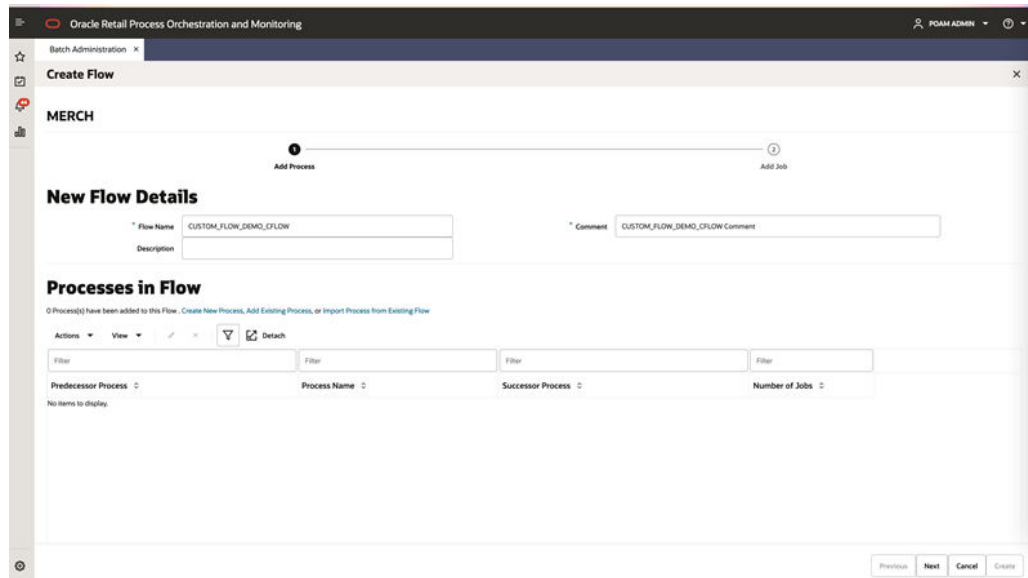
- Create Custom Entities - The following options are listed when clicked:
  - Create Flow
  - Create Process
- Filter by Invokable Name – Search for an invokable by entering a search term and clicking on Enter. An invokable can be a flow or a process that does not belong to a flow.
- Flows/Processes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

### Right Pane of Screen

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

### Create Custom Entities - Create Flow

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



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

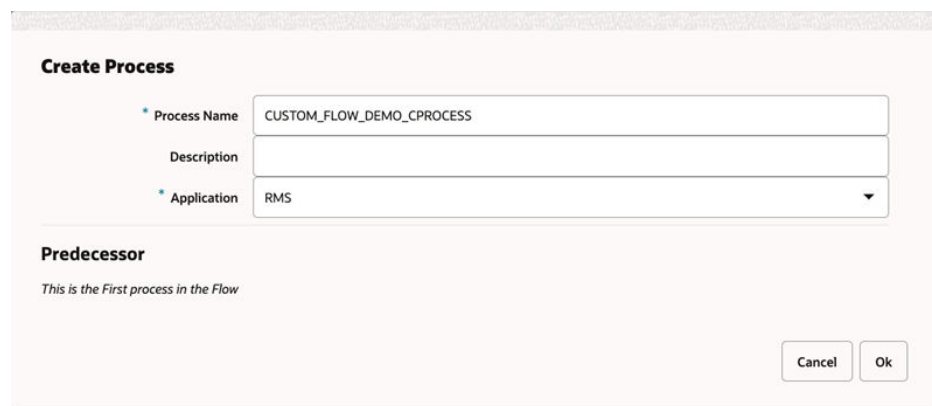
- **New Flow Details**

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

- **Processes in Flow**

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

1. Create New Process



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

**Create Flow**

MERCH

1 2  
 Add Process Add Job

**New Flow Details**

\* Flow Name: CUSTOM\_FLOW\_DEMO\_FLOW  
 Description:   
 \* Comment: CUSTOM\_FLOW\_DEMO\_FLOW Comment

**Processes in Flow**

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

Actions View Filter Detach

Filter	Filter	Filter	Filter
Predecessor Process	Process Name	Successor Process	Number of Jobs
None	CUSTOM_FLOW_DEMO_CPROCESS	None	0

2. Add Existing Process

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

**Add Existing Process**

Select Process: CUSTOM\_1\_CPROCESS

Select Predecessor: CUSTOM\_FLOW\_DEMO\_CPROCESS X

**Create Flow**

MERCH

1 2  
 Add Process Add Job

**New Flow Details**

\* Flow Name: CUSTOM\_FLOW\_DEMO\_FLOW  
 Description:   
 \* Comment: CUSTOM\_FLOW\_DEMO\_FLOW Comment

**Processes in Flow**

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

Actions View Filter Detach

Filter	Filter	Filter	Filter
Predecessor Process	Process Name	Successor Process	Number of Jobs
None	CUSTOM_FLOW_DEMO_CPROCESS	COPY_CUSTOM_1_CPROCESS	0
CUSTOM_FLOW_DEMO_CPROCESS	COPY_CUSTOM_1_CPROCESS	None	1

3. Import Process from Existing Flow – Select All



### Import Process from Flow

Select Flow:

Option:  Select All  Import Selective Process

### Select Process

<input type="checkbox"/>	Process Name	Number of Jobs
<input type="checkbox"/>	CUSTOM_PROCESS_TEST_1_CPROCESS	1
<input type="checkbox"/>	COPY_CUSTOM_3_CPROCESS	1
<input type="checkbox"/>	COPY_CUSTOM_CPROCESS	1
<input type="checkbox"/>	COPY_CUSTOM_1_CPROCESS	2
<input checked="" type="checkbox"/>	CUSTOM_PROCESS_TEST_2_CPROCESS	2
<input type="checkbox"/>	COPY_CUSTOM_2_CPROCESS	3

Only the selected processes from the flow are added.

MERCH

### New Flow Details

Flow Name:  Comment:

Description:

### Processes in Flow

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

Actions:

Predecessor Process	Process Name	Successor Process	Number of Jobs
<b>Next</b>	CUSTOM_FLOW_DEMO_CPROCESS	COPY_CUSTOM_1_CPROCESS	0
CUSTOM_FLOW_DEMO_CPROCESS	COPY_CUSTOM_1_CPROCESS	COPY_CUSTOM_PROCESS_TEST_1_CPROCESS	1
COPY_CUSTOM_1_CPROCESS	COPY_CUSTOM_PROCESS_TEST_1_CPROCESS	COPY_COPY_CUSTOM_3_CPROCESS	1
COPY_CUSTOM_PROCESS_TEST_1_CPROCESS	COPY_COPY_CUSTOM_3_CPROCESS	COPY_COPY_CUSTOM_CPROCESS	1
COPY_COPY_CUSTOM_3_CPROCESS	COPY_COPY_CUSTOM_CPROCESS	COPY_CUSTOM_PROCESS_TEST_2_CPROCESS	1
COPY_COPY_CUSTOM_CPROCESS	COPY_CUSTOM_PROCESS_TEST_2_CPROCESS	COPY_COPY_CUSTOM_2_CPROCESS	2
COPY_CUSTOM_PROCESS_TEST_2_CPROCESS	COPY_COPY_CUSTOM_2_CPROCESS	<b>List</b>	3

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

- **Jobs in Process**

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

1. Create New Job

- **Job Name**

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

- **Description**

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

- **Job Type**

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

- **Application**

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

- **Skip On Error**

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

- **Fixed Parameter**

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

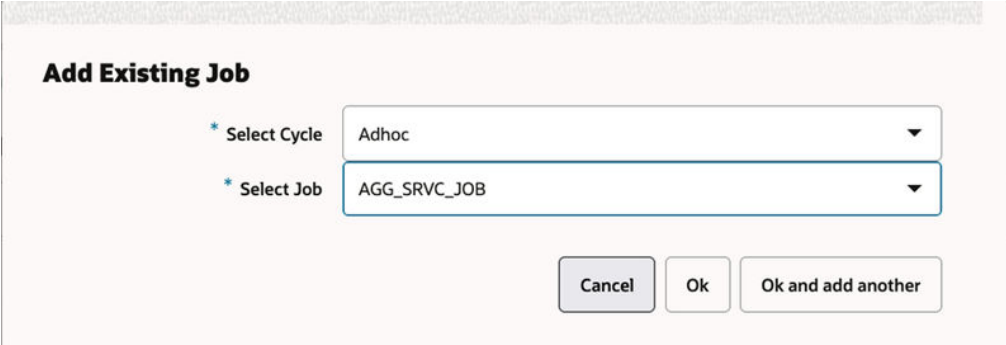
- **Parameters**

- \* This holds the entire parameter value to be passed into a shell-script type job. This field is case sensitive.



- \* For parameters that can have multiple values (for example, purge days parameter), provide a default value so that the batch can still be executed.
  - \* A placeholder parameter #JobCtxt.businessDate can be used for jobs that require a POM business date parameter (DDMMYYYY format).
- **Kill Cleanup Script**
- Absolute path of the cleanup script to be run after killing a shell script (EXEC) type job from the POM UI. It can include arguments as well along with the script.
- For example: /u01/retail/app/batch/app\_cleanup\_script.sh
- **Days of the Week**
- Days of the week for which the job is to be run if scheduled. Select all if job is to be run every day of the week.
- For example, if a job is part of a process that runs every day and Days of the Week is set to MONDAY and FRIDAY, this job will only run on those two days while the rest of the jobs may run every day.
- **Threshold Run Time (Sec)**
- Amount of time greater than which the job is deemed long running. If a **Threshold Run Time** is specified here, then a job is deemed long running if its current run time exceeds that value. Otherwise, if a Threshold Run Time is not specified, then the job is deemed long running when its current run time exceeds the Long Run Average Time Multiplier (defined on the Edit Settings popup of the System Configuration screen) times the average run time of that job. For example, if a job's average run time is 3 minutes, and the Long Run Average Time Multiplier is 3, then the job is considered long running if it has been running for at least 9 minutes. A notification is sent when a job is deemed long running.

## 2. Add Existing Job



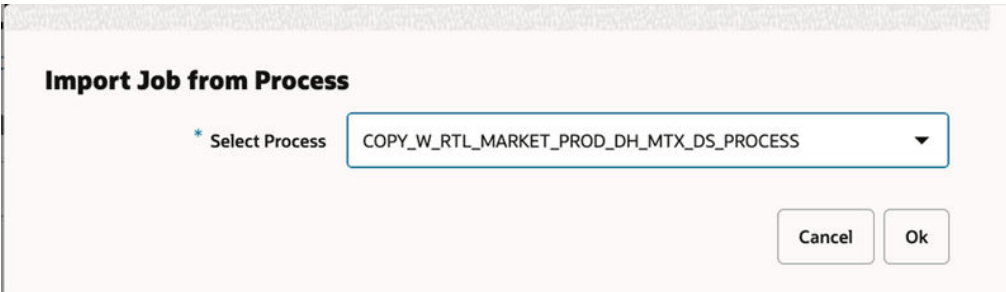
**Add Existing Job**

\* Select Cycle Adhoc

\* Select Job AGG\_SRVC\_JOB

Cancel Ok Ok and add another

## 3. Import Job from Existing Process

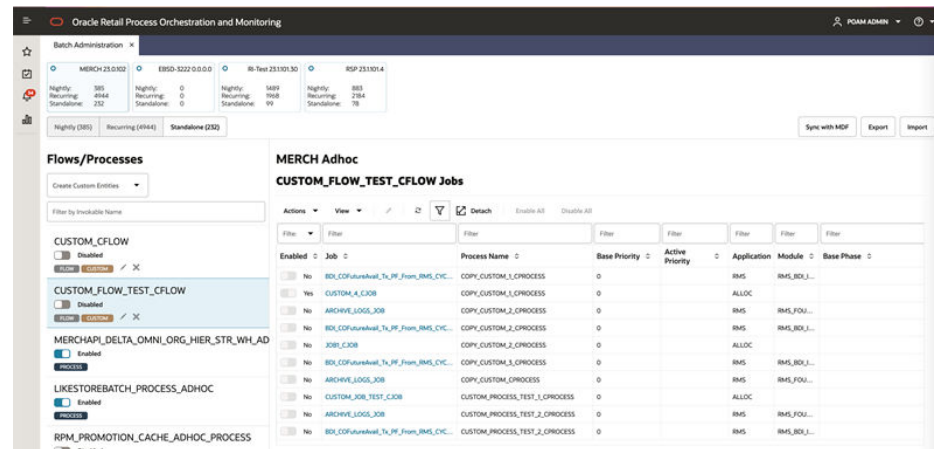


**Import Job from Process**

\* Select Process COPY\_W\_RTL\_MARKET\_PROD\_DH\_MTX\_DS\_PROCESS

Cancel Ok

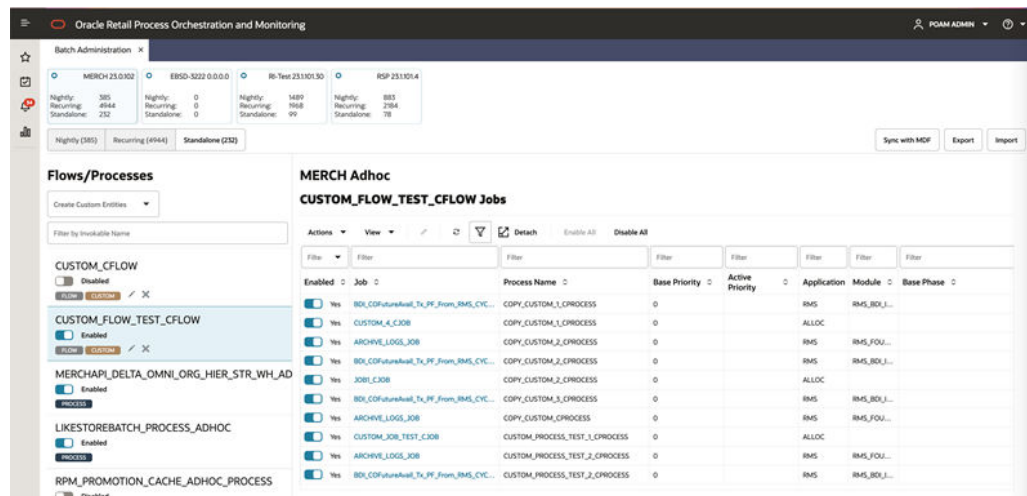
After adding the desired job(s), click the **Create** button in the footer to create the custom flow with its associated process and jobs.



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

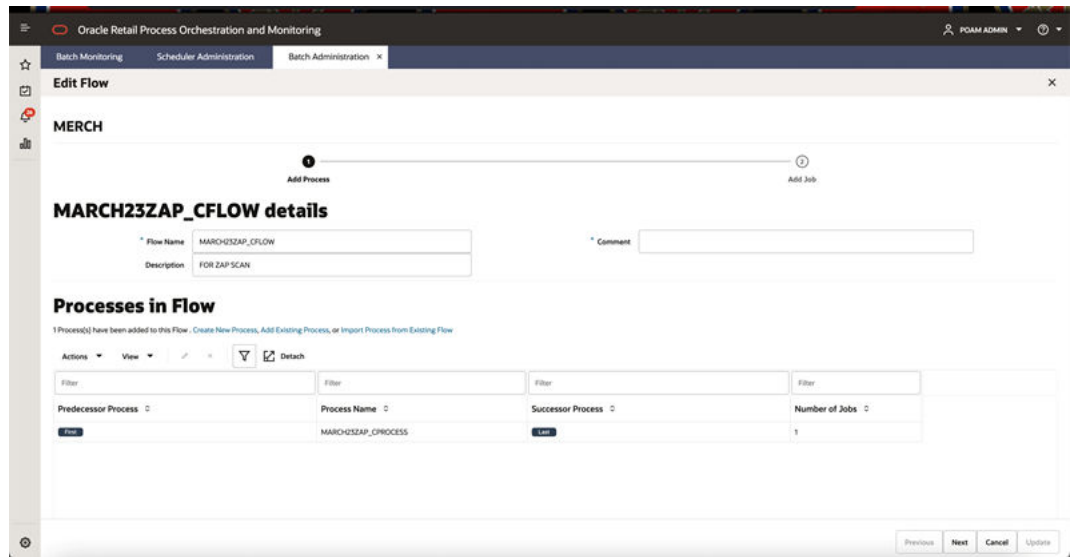
### Enable the Custom Flow

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



### Edit the Custom Flow

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

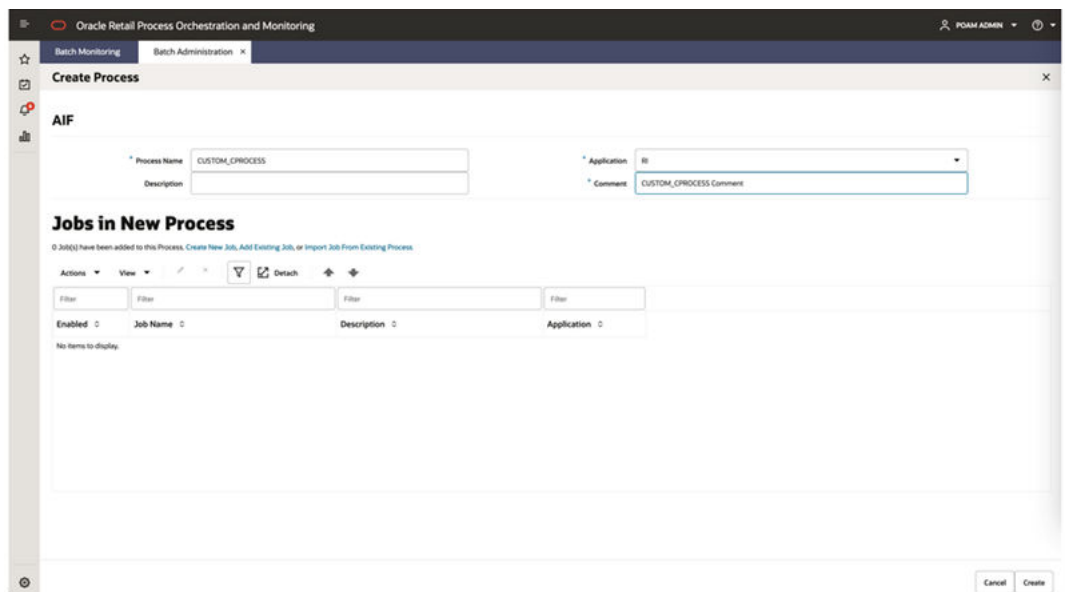


### Delete the Custom Flow

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

### Create Custom Entities - Create Process

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



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

- **New Process Details**

- Process Name – Name of the process ending with `_CPROCESS`.
- Comment
- Description
- **Jobs in New Process**

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

#### 1. Create New Job

#### – Job Name

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

#### – Description

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

#### – Job Type

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

#### – Application

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

#### – Skip On Error

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

#### – Fixed Parameter

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

### – Parameters

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

### – Kill Cleanup Script

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

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

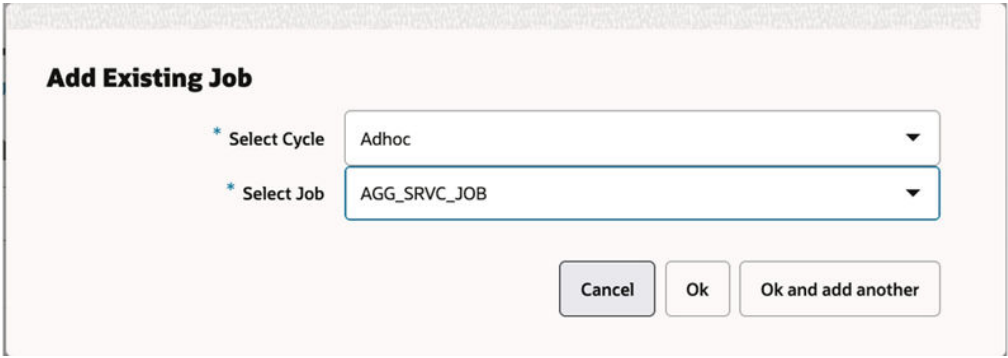
### – Days of the Week

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

### – Threshold Run Time (Sec)

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

## 2. Add Existing Job



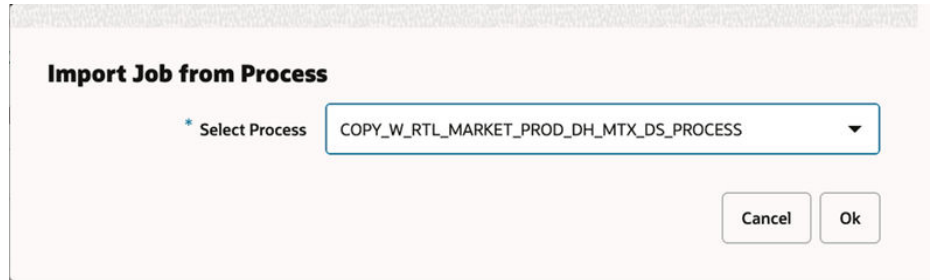
**Add Existing Job**

\* Select Cycle: Adhoc

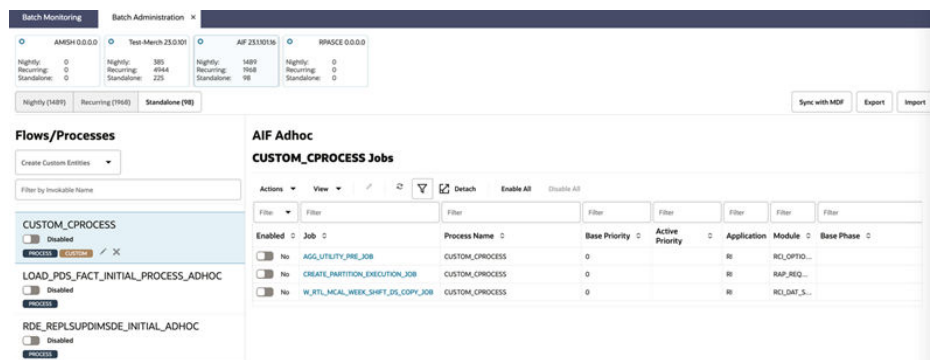
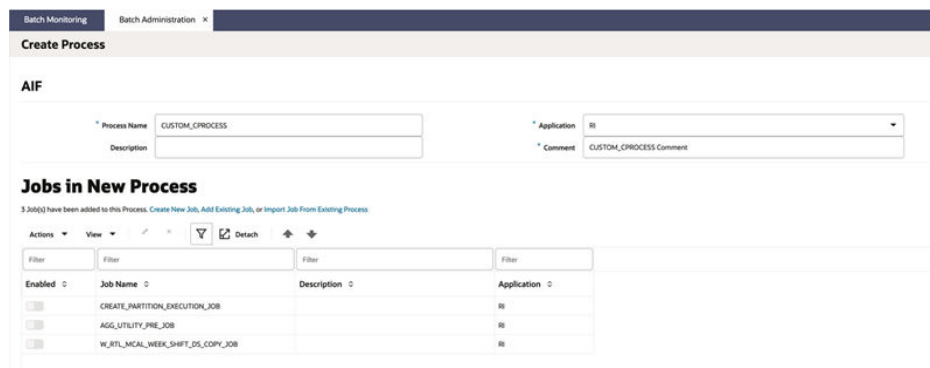
\* Select Job: AGG\_SRVC\_JOB

Cancel Ok Ok and add another

## 3. Import Job from Existing Process



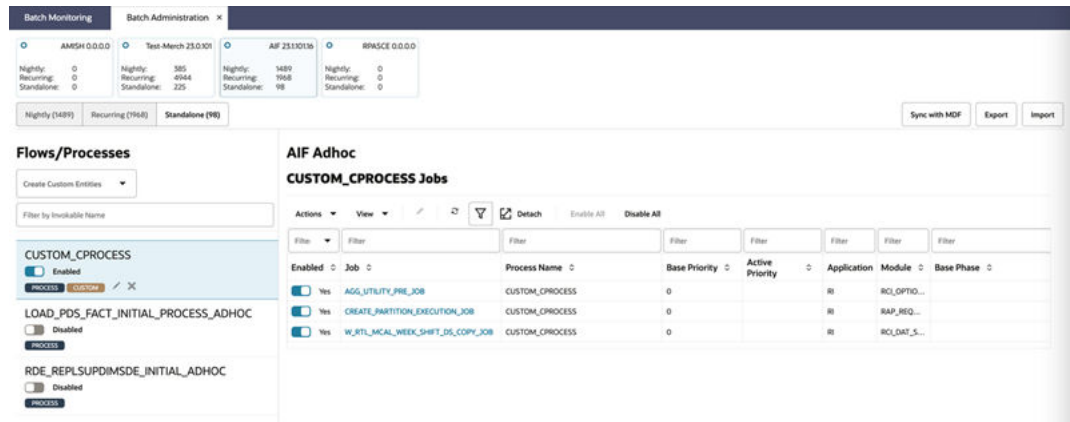
After creating and adding jobs for the new process, click the **Create** button in the footer to create the custom process with its associated jobs.



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

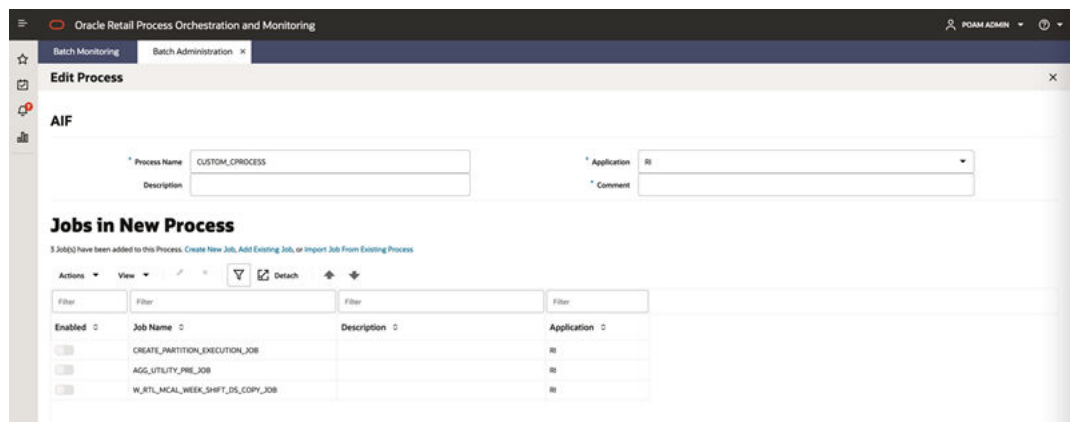
### Enable the Custom Process

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



## Edit the Custom Process

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

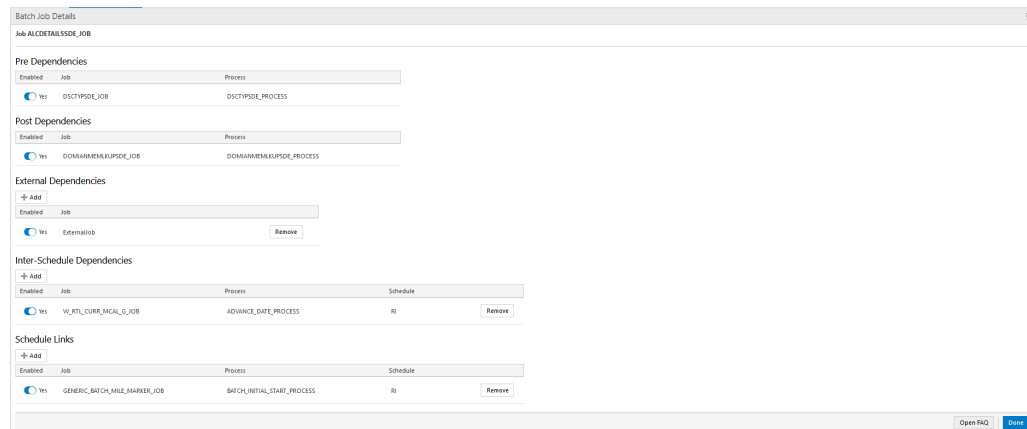


## Delete the Custom Process

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

## Batch Job Details

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

**Figure 2-46 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 inter-schedule dependencies. An inter-schedule dependency is a dependency for the current job on a job belonging to another batch schedule. The job for which this Jobs Detail screen is shown will wait for the job entered here.

- Enabled - Switch to enable or disable the inter-schedule dependency.
- Job - Name of job belonging to the other schedule.



- Process - Name of process containing Job.
- Schedule - Name of other schedule containing the dependency.
- A **Remove** button is available to delete the inter-schedule dependency.

## Schedule Links

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

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

## Scheduler Administration

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

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



### Note:

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

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

Frequency	Description
DAILY	Run daily at the specified time
WEEKLY	Run every <day of a week> at the specified time
ONCE	Run once at a specified date and time
MONTHLY	Run on a particular day of each month at a specified time; for example, on the 15th of each month at 10pm
MONTHLY_START	Runs at the beginning of every month
MONTHLY_END	Runs at the end of every month

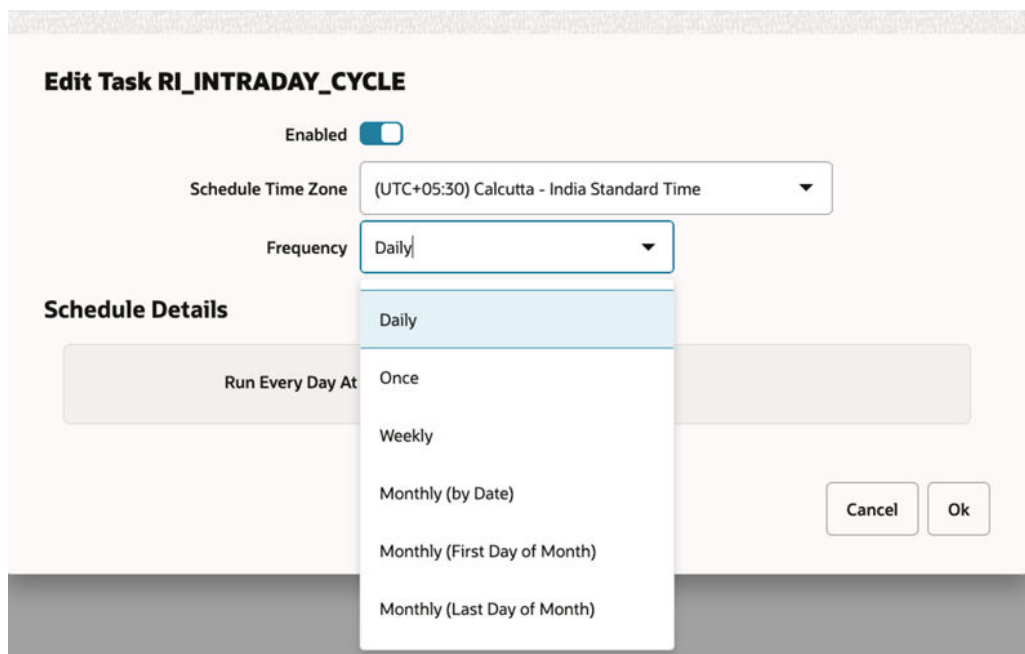
The Standalone (or Adhoc) cycle support a recurrence within each of the above frequencies.

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 2-47 Edit Scheduler Task Window**



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

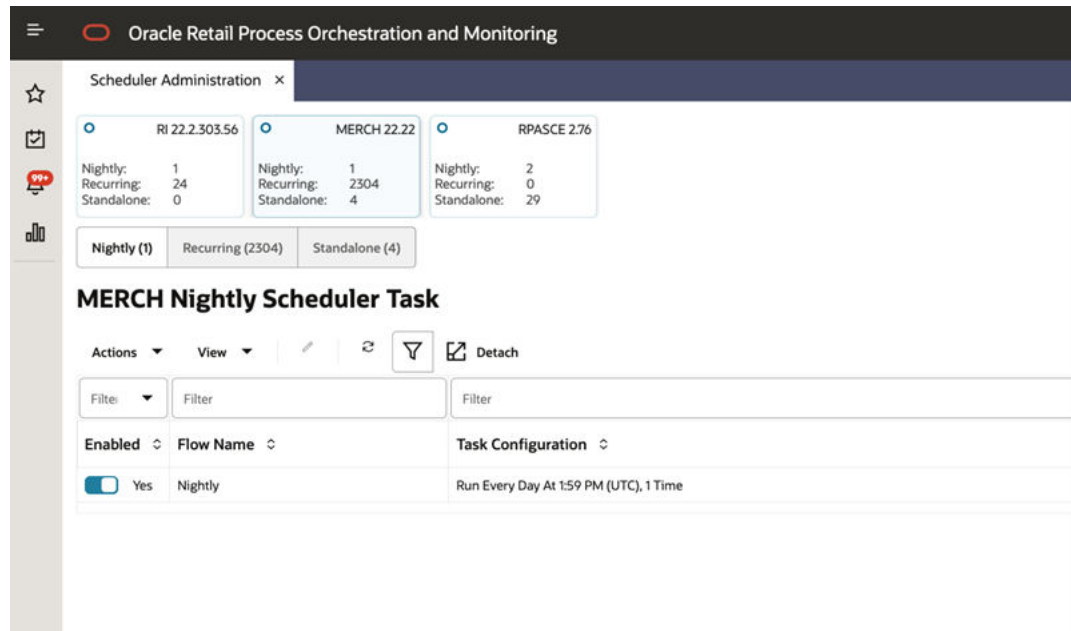
## Nightly Scheduler Task Administration

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

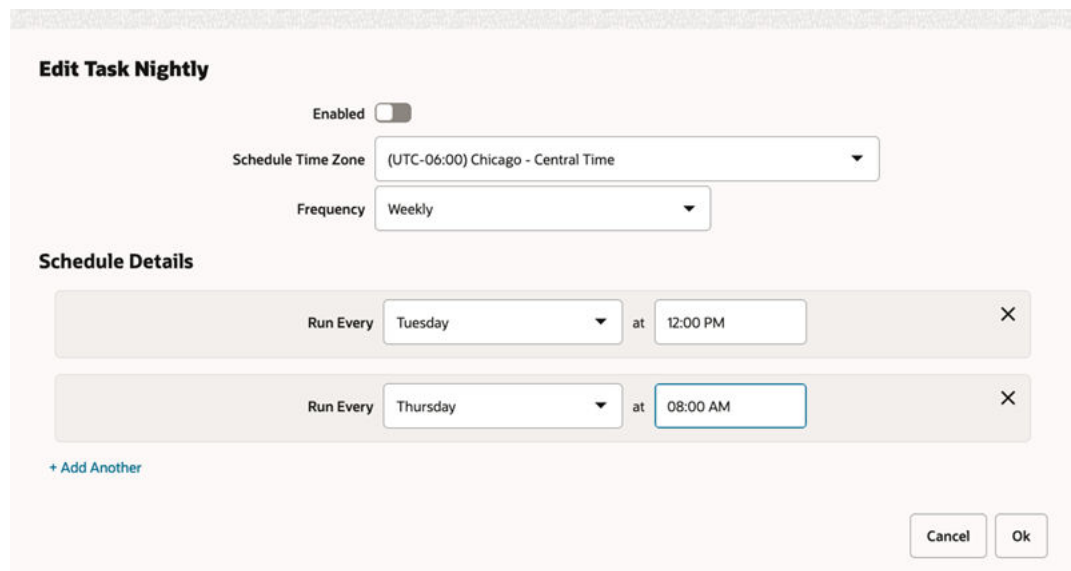
**Note:**

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

**Figure 2-48 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), and Monthly (Last Day of Month). 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 2-49 Recurring Scheduler Tasks Administration

The screenshot displays the Oracle Retail Process Orchestration and Monitoring Scheduler Administration interface. At the top, there are three task groups: RI 22.2.303.56, MERCH 22.22, and RPASCE 2.76. Each group shows counts for Nightly, Recurring, and Standalone tasks. The MERCH 22.22 group is selected, showing 2304 recurring tasks. Below this, a table titled "MERCH Hourly\_Cycle\_3 Scheduler Tasks" lists various tasks with their configurations. The first task, STORE\_ORDERS\_PURGE\_CYCLE, is highlighted.

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

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

**Edit Task RI\_INTRADAY\_CYCLE**

Enabled

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

Frequency Daily

**Schedule Details**

Run Every Day At 12:00 PM

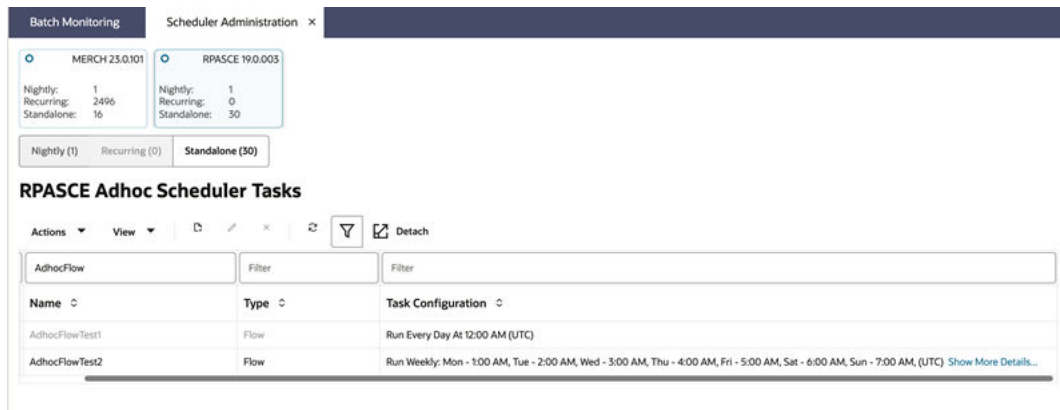
Cancel Ok

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

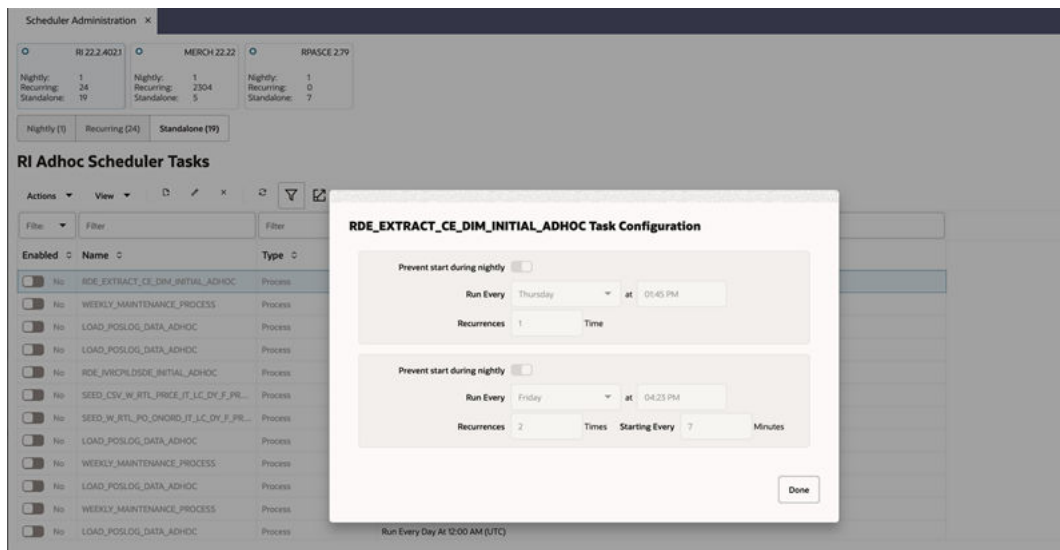
## Standalone Scheduler Tasks Administration

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

Figure 2-50 Standalone Scheduler Tasks Administration



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



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

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

The user can also create and delete Standalone scheduler tasks.

 **Note:**

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

### Edit Task RDE\_EXTRACT\_CE\_DIM\_INITIAL\_ADHOC

Enabled

Description

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

Frequency Weekly

#### Schedule Details

Prevent start during nightly

Run Every Thursday at 01:45 PM

Recurrences 1 Time

Prevent start during nightly

Run Every Friday at 04:23 PM

Recurrences 2 Times Starting Every 7 Minutes

[+ Add Another](#)

Cancel

Ok

#### Note:

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

- Enabled/Disabled
- Scheduled Time Zone
- Frequency - Possible values are: Daily, Once, Weekly, Monthly (By Date), Monthly (First Day of Month), and Monthly (Last Day of Month).
- 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:
  - Frequency: Daily Prevent start during nightly: Enabled/Disabled Run Every Day At' <Time AM/PM> Recurrences: <n number of times> Times Starting Every <Interval> Minutes



- Frequency: OncePrevent start during nightly: Enabled/Disabled'Run Once At' <Date & Time AM/PM>Recurrences: <n number of times> TimesStarting Every <Interval> Minutes
- Frequency: WeeklyPrevent start during nightly: Enabled/Disabled'Run Every' <Day of the week> 'at' <Time AM/PM>Recurrences: <n number of times> TimesStarting Every <Interval> MinutesAdd Another: Adds another weekday for the same task.
- Frequency: Monthly (By Date)Prevent start during nightly: Enabled/Disabled'Run Every Month on the' <nth day of the month> 'at' < Time AM/PM >Recurrences: <n number of times> TimesStarting Every <Interval> Minutes
- Frequency: Monthly (First Day of Month)Prevent start during nightly: Enabled/ Disabled'Run on the First Day of Every Month at' < Time AM/PM >Recurrences: <n number of times> TimesStarting Every <Interval> Minutes
- Frequency: Monthly (Last Day of Month)Prevent start during nightly: Enabled/ Disabled'Run on the Last Day of Every Month at' < Time AM/PM >Recurrences: <n number of times> TimesStarting Every <Interval> Minutes

## 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.

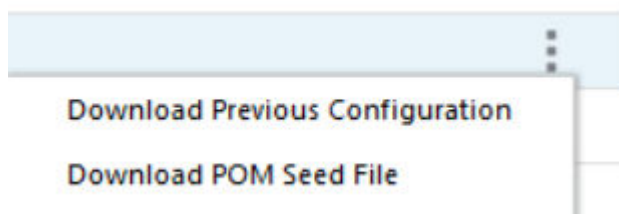
**Figure 2-51 Schedule Maintenance Tab**

The screenshot displays the Oracle Retail Process Orchestration and Monitoring interface. The top navigation bar includes tabs for System Configuration, Batch Administration, Scheduler Administration, Schedule Maintenance (active), Audit Events, Nightly Batch Summary, and Batch Jobs Timeli. Below the navigation, there is a grid of batch tiles. The 'Versions' section contains a table with the following data:

Upgrade Status	Version	Date Upgraded	Description	Actions
● Error (Stage EXPORT_CURRENT_CONFIGURATION)	23.0.101	04/05/23 23:55:10 GMT+5:30	NA	View Logs, Retry, Cancel, ⋮
● Error (Stage CREATE_TEMP_SCHEDULER_DAY)	19.3	04/05/23 23:57:26 GMT+5:30	Merch Batch Schedule	View Logs, Retry, Skip Failed Stage, ⋮
○ Past Version	19.2	02/17/23 20:10:32 GMT+5:30	NA	View Logs, Upgrade, ⋮

- 1. Batch Tiles** - There is a batch tile for each schedule available in Process Orchestration and Management. Select a tile to show the history of the selected schedule's upgrades or available upgrades.





## 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.

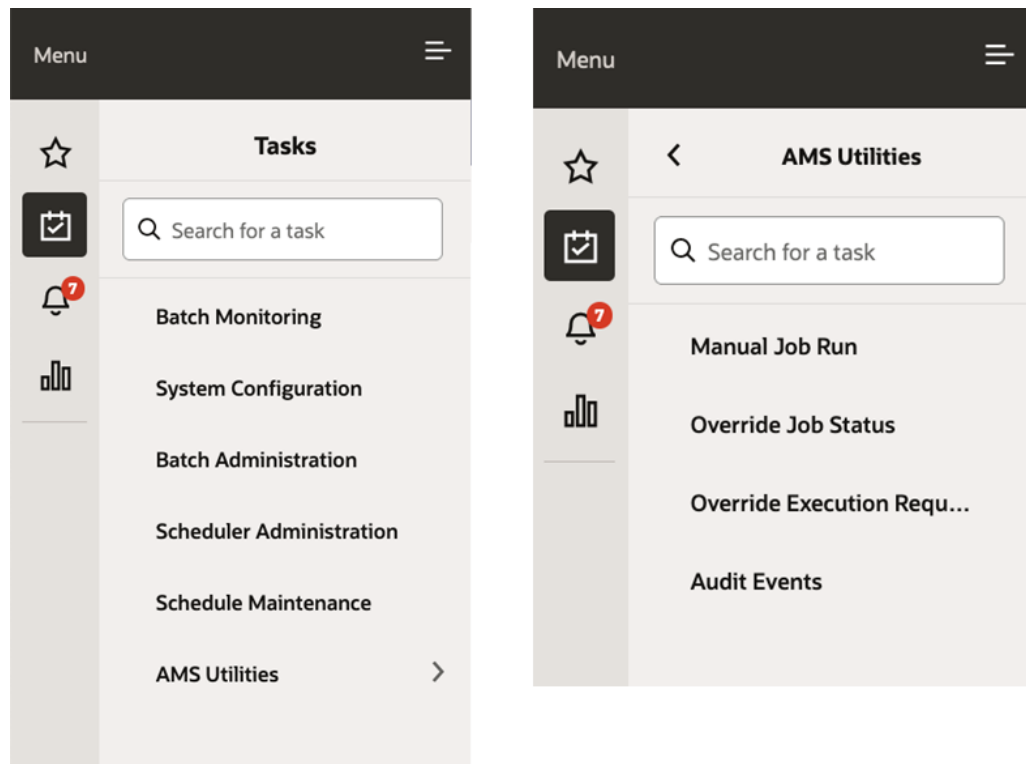
Use the **Refresh** button to refresh the screen immediately.

**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](#)

## Manual Job Run

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

### Note:

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

Figure 2-52 Manual Job Run



Manual Job Run

*Running a Job manually would simply run the job without regard to its dependencies. These Jobs will not be re-run when the Cycle is running.*

Schedule

Cycle

Job

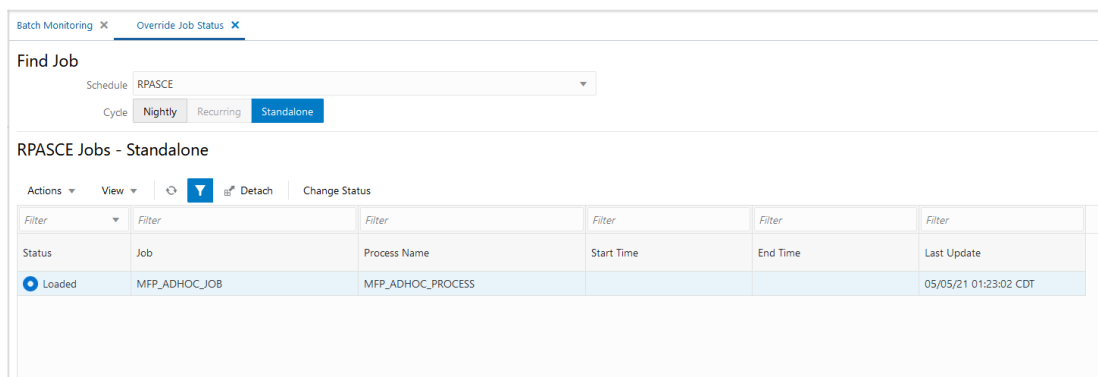
Run

## 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 2-53 Override Job Status



Batch Monitoring x Override Job Status x

Find Job

Schedule RPASCE

Cycle Nightly Recurring Standalone

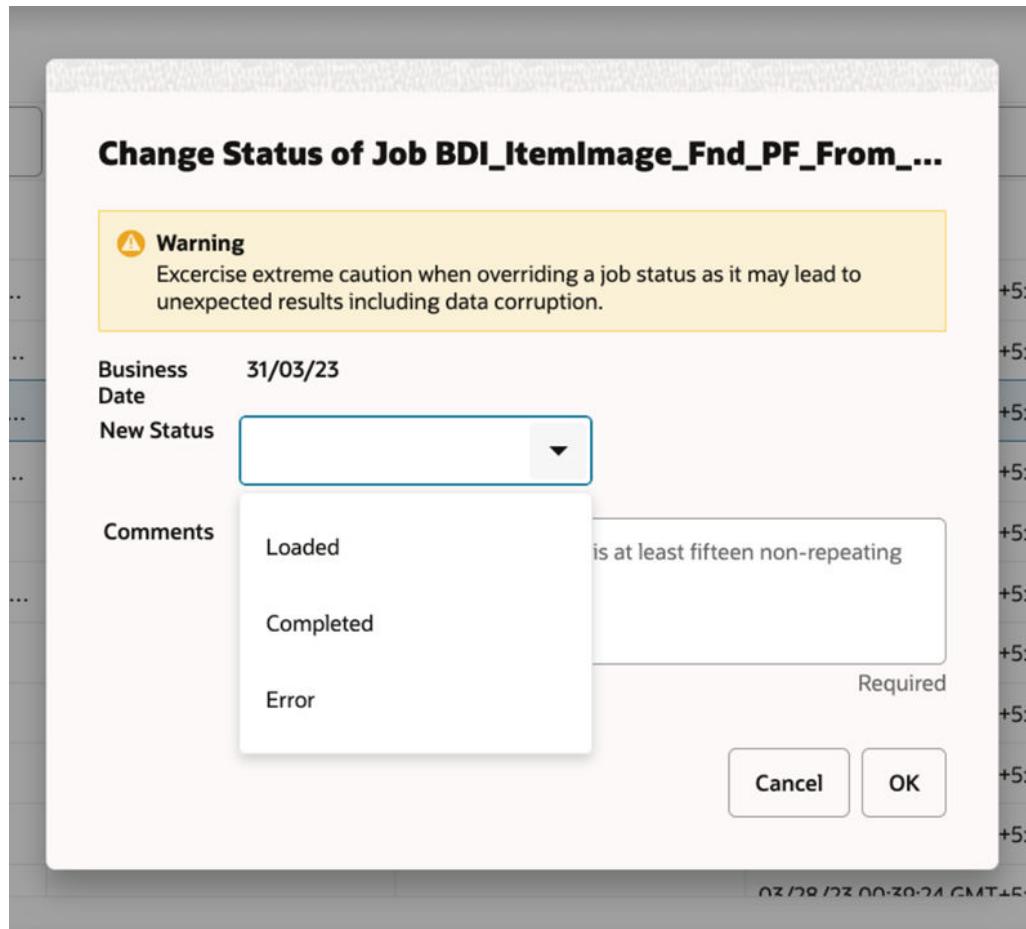
RPASCE Jobs - Standalone

Actions View Refresh Detach Change Status

Filter	Filter	Filter	Filter	Filter	Filter
Status	Job	Process Name	Start Time	End Time	Last Update
Loaded	MFP_ADHOC_JOB	MFP_ADHOC_PROCESS			05/05/21 01:23:02 CDT

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 2-54 Override Job Execution Status

Batch Monitoring x System Configuration x Schedule Maintenance x Override Execution Request Status x

Find Job

Schedule RPASCE

Cycle Nightly Recurring Standalone

RPASCE Execution Requests - Standalone

Actions View Refresh Detach

Filter	Filter	Filter	Filter	Filter
Execution ID	Status	Cycle	Flow	Total Jobs
181	Loaded	Adhoc	Adhoc	1

Execution ID 181 Details

Actions View Refresh Detach Change Status

Filter	Filter	Filter	Filter	Filter	Filter
Job Run ID	Status	Job Name	Process	Job Execution ID	Last Update
482013	Submitted	MFP_ADHOC_JOB	MFP_ADHOC_PROCESS	1500	05/05/21 07:23:57 GMT+1

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.

Change Status of Job VARIABLE\_REFRESH\_JOB x

**Warning**  
Exercise extreme caution when overriding an execution request status as it may lead to unexpected results including data corruption.

Business Date 05/06/21

New Status

Comments Loaded  
Completed  
Held  
Skipped  
Running

fifteen non-repeating characters for audit

Cancel OK

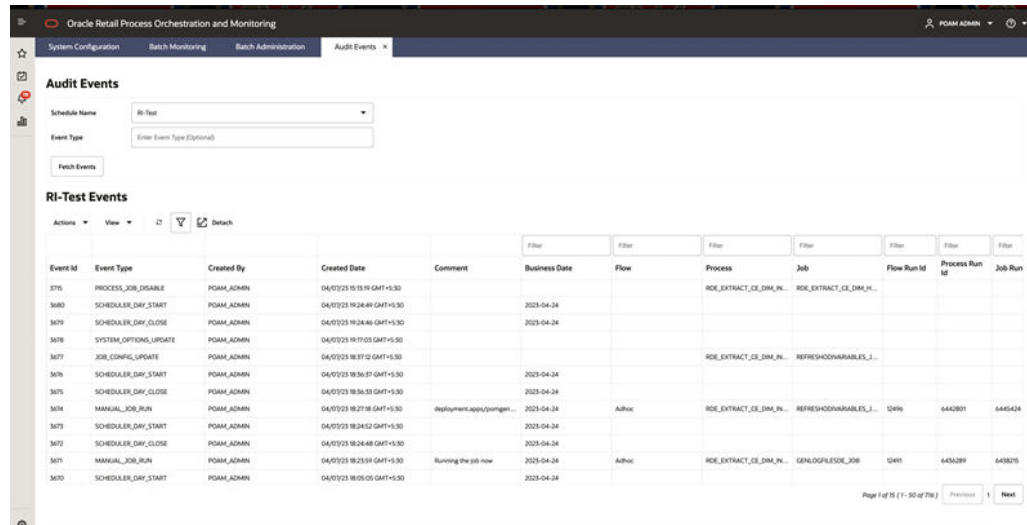
AR\_LOAD\_ADHOC

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 actions that trigger an audit event are listed below:

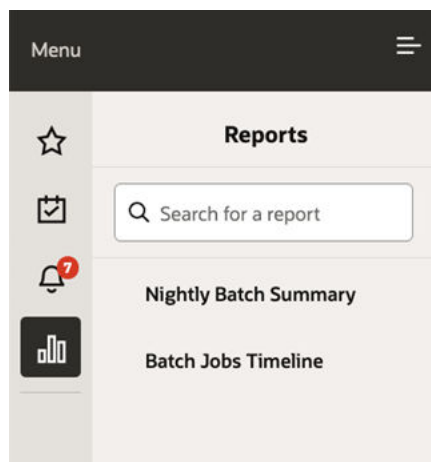
#	Screen	Actions
1	Batch Monitoring	<ul style="list-style-type: none"> <li>Manual Close/Create/Restart scheduler day</li> <li>Job actions (Run/Hold/Skip and so on)</li> <li>Enabled/Disable Scheduler</li> <li>Suspend/enable the Schedule</li> <li>Schedule task creation or manual run</li> <li>Enable/disable dependencies</li> <li>Manual Flow Run</li> <li>Manual Process Run</li> <li>Cycle Recover</li> <li>Update Job Parameter</li> </ul>
2	Batch Administration	<ul style="list-style-type: none"> <li>Enable/Disable Jobs</li> <li>Job configuration update</li> <li>MDF Sync</li> <li>Export/Import configuration                             <ul style="list-style-type: none"> <li>Schedule Config</li> <li>Custom Entities</li> </ul> </li> <li>Custom Batch Entity (Create/Update/Delete)</li> <li>Enabled/Disable Invokable</li> <li>Enable All/ Disable All action</li> </ul>



#	Screen	Actions
3	System Configuration	<ul style="list-style-type: none"><li>• Update environment settings (URLs)</li><li>• Update / Remove external configuration</li><li>• Update System settings</li><li>• Create/Update/Delete of custom job type</li><li>• New Schedule Creation</li><li>• System Option Update</li></ul>
4	Scheduler Administration	<ul style="list-style-type: none"><li>• Enable/disable a scheduler task</li><li>• Configuration update</li><li>• Scheduler Task delete</li></ul>
5	Schedule Maintenance	<ul style="list-style-type: none"><li>• Schedule upgrade</li></ul>
6	AMS Utilities	<ul style="list-style-type: none"><li>• Manual job run</li><li>• Exec request status update</li><li>• Job status update</li></ul>

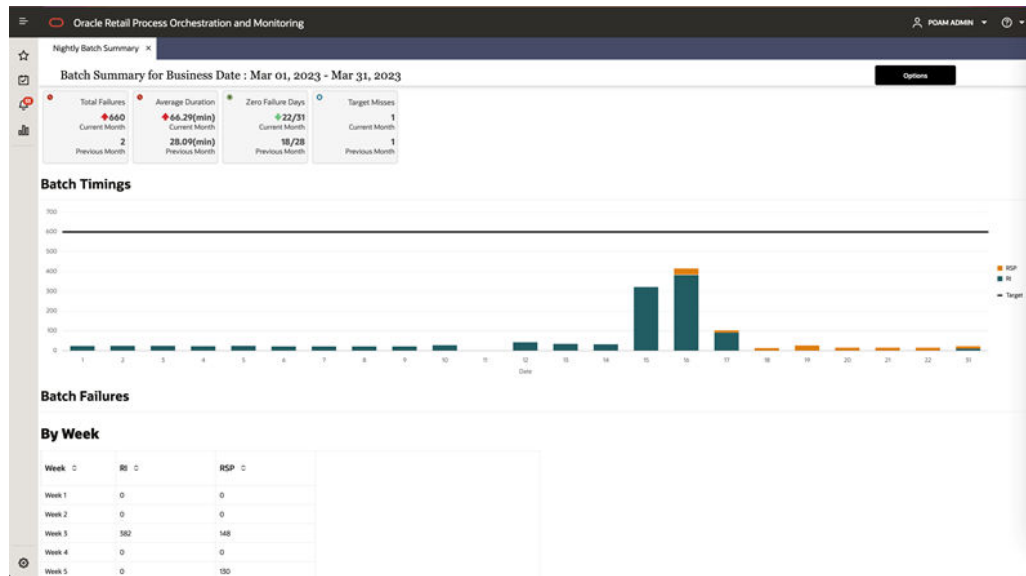
## Reports

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



## Nightly Batch Summary

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



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

**Options**

\* Select Month: March- 2023

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

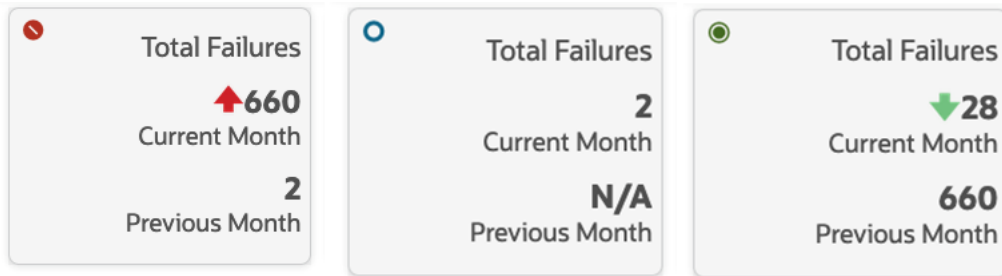
Buttons: Cancel, OK, Switch to Current Month

The statistics displayed as tiles are,

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

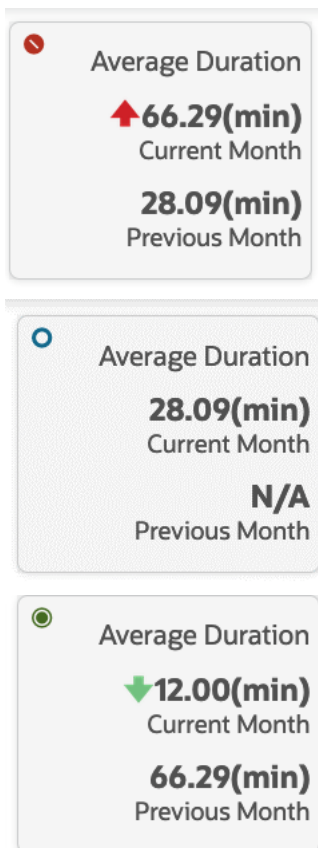
A red icon in the top left corner indicates that the statistics count is a serious concern that needs to be addressed. A blue icon indicates a neutral status and green icon indicates an acceptable failure count.

**Tile# 1 – Total Failures**

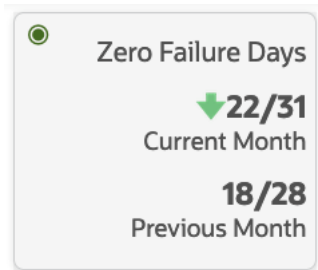


This tile displays the total batch failures for the selected month and schedules. The previous month's failure count is also displayed for comparison.

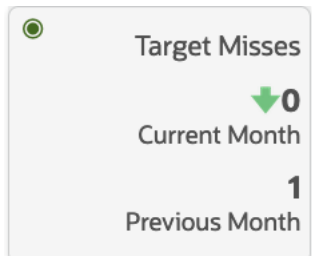
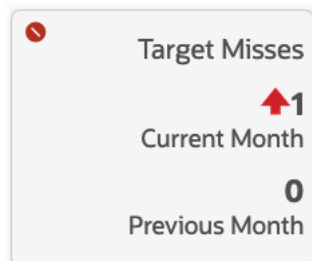
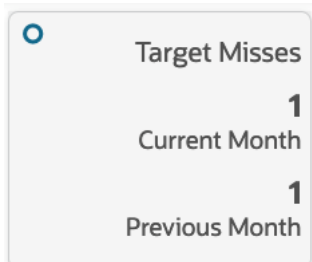
**Tile# 2 – Average Duration**



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

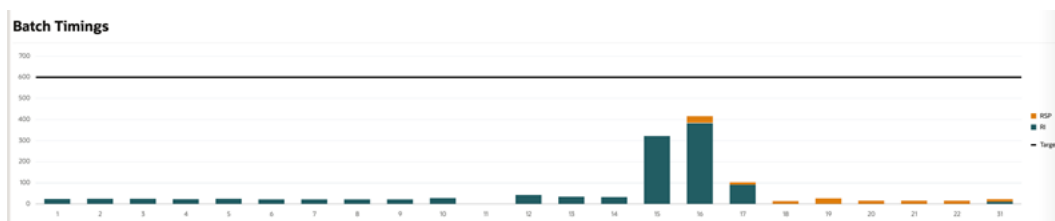
**Tile# 3 – Zero Failure Days**

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

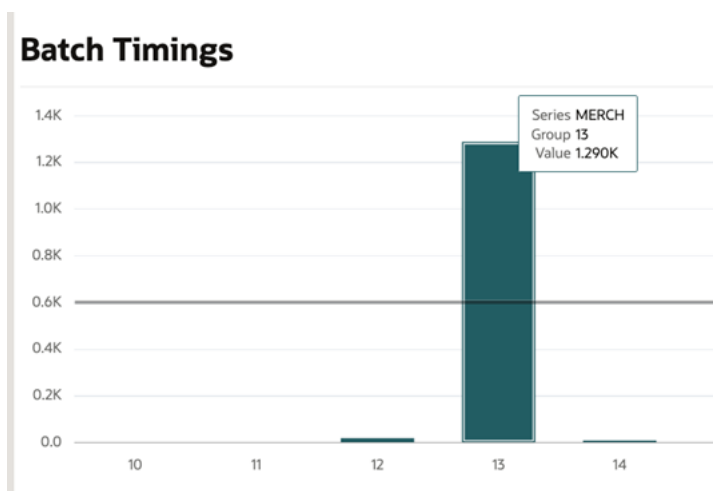
**Tile# 4 – Target Misses**

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

## Batch Timings Bar Graph



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



## Batch Failures

### Batch Failures

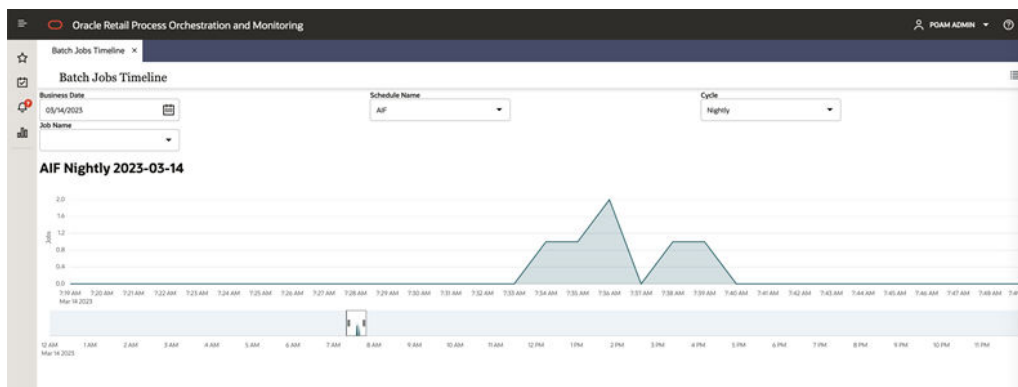
#### By Week

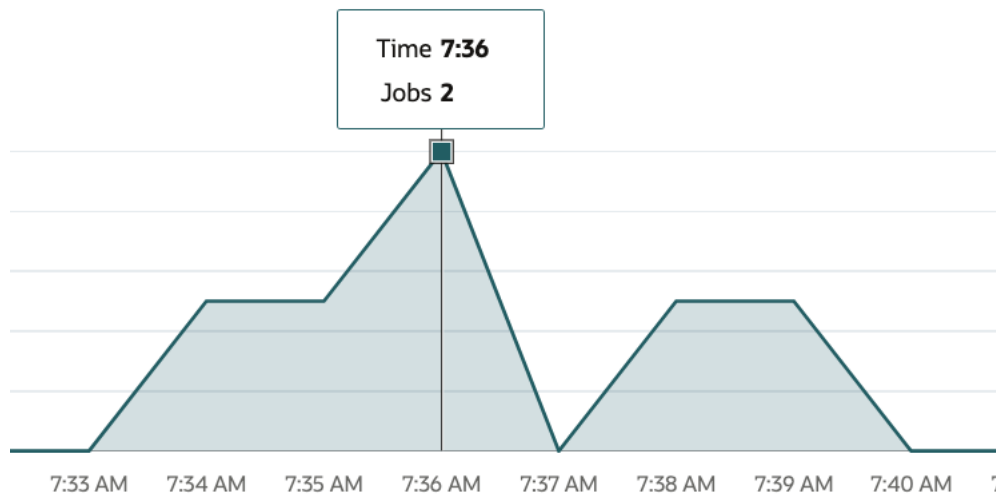
Week	RI	RSP
Week 1	0	0
Week 2	0	0
Week 3	382	148
Week 4	0	0
Week 5	0	130

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

## Batch Jobs Timeline

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





# 3

## User Roles

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

The following topics are covered in this chapter:

[Roles](#)

[Functional Access by Role](#)

### Roles

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



#### Note:

The first two roles have thus far been associated with POM's classic user interface and are being deprecated along with the classic user interface itself. Customers need to migrate to the other four roles before those classic roles are removed.

These roles have been given similar access in the new user interface as the access they had in the classic user interface.

**Table 3-1 Roles**

Role	Alias	Description
BATCH_MONITORING_JOB	Monitor	One of the classic user interface roles. Users within this role are typically retailer administrators responsible for monitoring and executing batch. They can perform select activities on the Batch Monitor screen to move the schedule along.
BATCH_BUSINESS_JOB	Business User	Another one of the classic user interface roles. Users within this role are typically retailer business users responsible for just monitoring batch and configuring POM to enable callbacks into the Company's systems.



Table 3-1 (Cont.) Roles

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

## 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	Monitor Schedule Admin
Requesting the status of a batch execution	Administrator AMS Admin
Releasing dependency on an external process	

**Table 3-3 POM Task Menu**

Feature	Roles (aliases) with access
Show Batch Monitoring task	Monitor Business User Administrator Viewer Schedule Config Mgr Schedule Admin AMS Admin
Show System Configuration task	Business User 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 Monitor 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**

<b>Feature</b>	<b>Roles (aliases) with update access</b>
Buttons for Create Schedule, Close Schedule and Restart Schedule	Monitor 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	Monitor Schedule Admin Administrator AMS Admin
Jobs table Actions menu on Batch Monitoring screen - Edit Parameters (for selected job)	Monitor Schedule Admin Administrator AMS Admin
Job Details screen - Enable/Disable External Dependencies	Monitor Administrator Schedule Config Mgr Schedule Admin AMS Admin
Job Details screen - Retry Schedule Link button	Monitor Administrator AMS Admin
Job Details screen - Retry Callback button	Monitor 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	Monitor Administrator Schedule Admin AMS Admin

**Table 3-5 Screen: System Configuration**

<b>Feature</b>	<b>Roles (aliases) with update access</b>
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

**Table 3-5 (Cont.) Screen: System Configuration**

<b>Feature</b>	<b>Roles (aliases) with update access</b>
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	Business User Administrator Schedule Config Mgr Schedule Admin AMS Admin
Global Edit - Settings updates	Administrator AMS Admin
Global Edit - External Configuration updates	Business User Administrator Schedule Config Mgr Schedule Admin AMS Admin
Configure New Schedule	Administrator Schedule Admin AMS Admin

**Table 3-6 Screen: Batch Administration**

<b>Feature</b>	<b>Roles (aliases) with update access</b>
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

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

Feature	Roles (aliases) with update access
Batch Job Details - Create/Enable/Disable/Delete External Dependencies	Administrator Schedule Config Mgr Schedule Admin AMS Admin
Create/Edit/Delete Custom Adhoc Entities	Administrator Schedule Admin AMS Admin

**Table 3-7 Screen: Scheduler Administration**

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

**Table 3-8 Screen: Schedule Maintenance**

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

**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	

**Table 3-10 Screen: Application Properties**

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