

OFS Price Creation and Discovery Cloud Service

Service Operations Guide

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OFS Price Creation and Discovery Cloud Service

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Document Control

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1 Download Oracle Financial Services Price Creation and Discovery Run Chart

Oracle Financial Services Price Creation and Discovery provides the Run Chart listing the tasks required for population of data for OFS PCD Reports. This covers the following tasks:

- Set up table population
- Stage Dimension Load
- Seeded Dimension Data Population
- Common data Population
- Common Tasks like Exchange Rate Population
- Derived Entity Refresh

Download the OFS PCD 9.0 Run chart from the [MOS](#) page.

2 Operations

Operations refers to administration and processing of business data to create the highest level of efficiency within the system and to derive results based on a specified rule. Operations framework within the Infrastructure system facilitates you (system administrator) to:

- Configure and operate the business processes effectively.
- Maintain the Operator Console by Defining and Executing Batches through the Operations menu.
- Monitor the Batches scheduled for execution.

The roles mapped for Operations module are Batch Access, Batch Advanced, Batch Read Only, and Batch Write. For more details on roles and functions, refer to the following table:

V_ROLE_CODE	V_ROLE_NAME	V_ROLE_DESC
BATCH_ACSS	Batch Access	Batch Access
BATCH_ADVN	Batch Advanced	Batch Advanced
BATCH_READ	Batch Read Only	Batch Read Only
BATCH_WRIT	Batch Write	Batch Write

The operation section discusses the following sections:

- [Batch Maintenance](#)
- [Batch Execution](#)
- [Batch Scheduler](#)
- [Batch Monitor](#)
- [Processing Report](#)
- [Batch Cancellation](#)
- [View Log](#)

2.1 Batch Maintenance

Batch refers to a set of executable processes based on a specified rule. Batch Maintenance framework within the Infrastructure system facilitates you to create and maintain the Batch Definitions. You can process the Batch scheduled for execution from Batch Maintenance and also from other modules and applications such as Rules Run Framework and Enterprise Modeling respectively.

You should have Batch Write User Role mapped to your User Group to cancel a Batch. The *Batch Maintenance* window displays a list of Batches scheduled for maintenance with the other details such as Batch ID, Batch Description, and the editable state of the Batch.

Batch Maintenance ?

Search ↺ Reset

Batch ID Like OFSAAAIINFO_ Batch Description Like

Module Last Modification Date Between And

Batch Name + Add View Edit Delete

Batch ID	Batch Description	Batch Edit/Non Edit
<input type="checkbox"/> OFSAAAIINFO_1523949760113	TEST1232	NE
<input checked="" type="checkbox"/> OFSAAAIINFO_BATCH1	BATCH1	E
<input type="checkbox"/> OFSAAAIINFO_BATCH2	BATCH2	E
<input type="checkbox"/> OFSAAAIINFO_OFFLINE_OBJECT_MIGRATION	OFSAAAIINFO_OFFLINE_OBJECT_MIGRATION	NE

Page 1 of 1 (1-4 of 4 items) Records Per Page 15

Task Details + Add View Edit Delete

Task ID	Task Description	Metadata Value	Component ID	Precedence
<input type="checkbox"/> Task1	null	1433861367704	RULE_EXECUTION	<input type="text"/>

Page 1 of 1 (1-1 of 1 items) Records Per Page 15

In the *Batch Maintenance* window, you can do the following:

- Create Batch Definitions and assign task details to a Batch. You can also set the task precedence, specify component, and define the dynamic parameters based on the component.
- View the Batch Definition details.
- Change the Batch Definition Status as Non Editable (NE).
- Delete Batch Definition details.

You can also search for a specific Batch based on the Batch ID, Batch Description, Module, or Last Modified Date.

You can transfer batch ownership from one user to another user. For details, see [Transferring Batch Ownership](#) section in the [OFSAAI Administration Guide](#).

2.1.1 Adding Batch Definition

You can either define an empty Batch or duplicate an existing Batch and specify the task details. To add Batch definition in the *Batch Maintenance* window:

1. Click **+ Add** button from the Batch Name tool bar. The *Add Batch Definition* window is displayed.

Batch Maintenance ?

Save Cancel

▼ Batch Maintenance

Batch Name Batch Description

Duplicate Batch Batch ID



Sequential Batch

2. Enter the Batch details as tabulated.

Field	Description
Batch Name	<p>The Batch Name is auto generated by the system. You can edit to specify a Batch name based on the following conditions:</p> <p>The Batch Name should be unique across the Information Domain.</p> <p>The Batch Name must be alphanumeric and should not start with a number.</p> <p>The Batch Name should not exceed 41 characters in length.</p> <p>The Batch Name should not contain any special characters except “_”.</p>
Batch Description	<p>Enter a description for the Batch based on the Batch Name.</p> <p>Batch description should be alphanumeric. The allowed special characters are “_”, “-”, “:”, “.”, and “<blank space>”.</p>
Duplicate Batch	<p>(Optional) Select the checkbox to create a new Batch by duplicating the existing Batch details.</p> <p>On selection, the Batch ID field is enabled.</p>
Batch ID (If duplicate Batch is selected)	<p>It is mandatory to specify the Batch ID if Duplicate Batch option is selected.</p> <p>Select the required Batch ID from the list.</p>
Sequential Batch	<p>Select the checkbox if the Batch has to be created sequentially based on the task specified. For example, if there are 3 tasks defined in a Batch, task 3 should have precedence as task 2, and task 2 should have precedence as task 1.</p>

3. Click **Save** to save the Batch definition details. The new Batch definition details are displayed in the Batch Name section of *Batch Maintenance* window with the specified Batch ID.

In the Batch Name tool bar of *Batch Maintenance* window, you can select the Batch ID and do the following:

- Click  **View** button and view the Batch Definition details.
- Click  **Edit** button to change the status of the Batch as **Non Editable (NE)**.

NOTE

Non Editable batch status cannot be reverted to Editable status later.

By default the new Batch created will have the status set as **Editable (E)**.

- Click  **Delete** button to delete the Batch definition details.

2.1.2 Specify Task Details

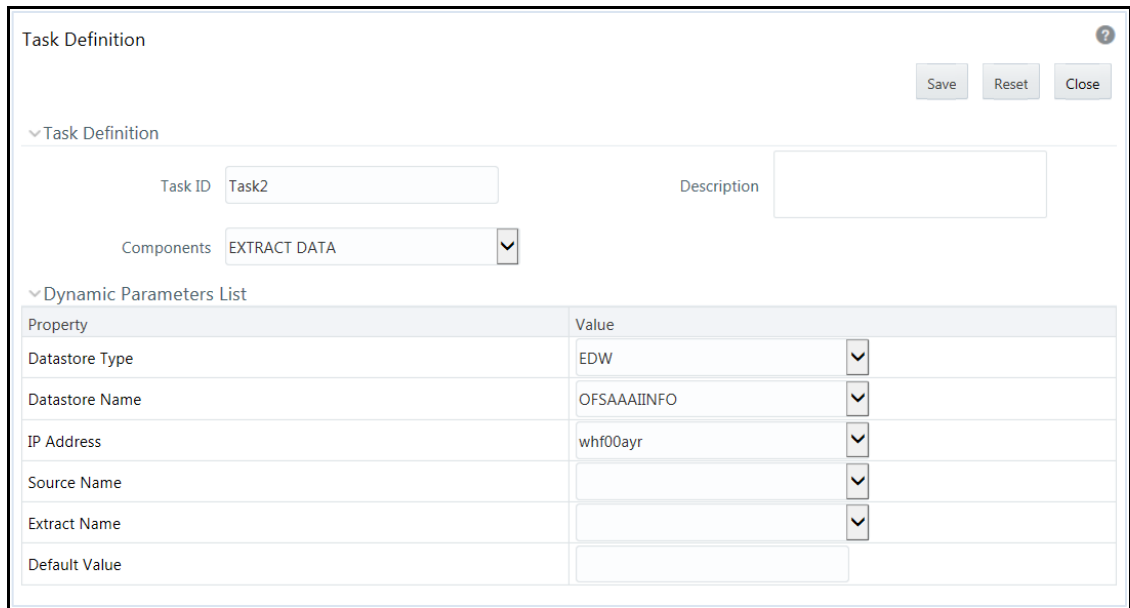
The Tasks Details section of *Batch Maintenance* window displays the list of tasks associated with a specific Batch definition. In the Task Details section you can do the following:

- Update the pre-defined task and assign new tasks.
- Specify the Task Precedence.
- Update the pre-defined Component or specify new component.
- Specify the Dynamic Parameters based on the component selected.

2.1.2.1 Adding Task Details

To specify the task details in the *Batch Maintenance* window:

- Click **+ Add** from the Task Details tool bar. The *Add Task Definition* window is displayed.



- Enter the task details as tabulated.

Field	Description
Task ID	The task ID is auto generated by the system depending on the precedence level and is not editable.

Field	Description
Description	<p>Enter the task description. No special characters are allowed in Task Description.</p> <p>The words like Select From or Delete From (identified as potential SQL injection vulnerable strings) should not be entered in the Description.</p>
Components	<p>Components refers to individual functional units that are put together to form a process. A component triggers its own set of processes in the back-end to achieve the final output. For more information on each component Property and Value Description, see Task Component Parameters.</p> <p>Select the required component from the drop-down list.</p>
Dynamic Parameters List	<p>On selecting a task component, a list of dynamic parameters is displayed. It is mandatory to select the parameter values based on the component.</p> <p>Specify the value for each parameter by selecting from the drop-down list. Click the following links to view the component parameter details.</p> <ul style="list-style-type: none"> • AGGREGATE DATA • CREATE CUBE • EXTRACT DATA • LOAD DATA • MODEL • PROCESS EXECUTION • RULE EXECUTION • RUN DO RULE • RUN EXECUTABLE • SQL RULE • TRANSFORM DATA • VARIABLE SHOCK • WORKFLOW EXECUTION
Datastore Type	<p>Refers to the type of data store such as Enterprise Data Warehouse (EDW) which refers to the Multi-dimensional Database/Cubes.</p>
Datastore Name	<p>Refers to the name of the Information Domain. By default the Information Domain to which the selected Application is mapped, is selected.</p> <p>The unique combination of the Datastore Name and the Datastore Type determine the physical machine on which the task will be executed. It is assumed that the user gives the correct information else task invocations may fail at runtime.</p>
Primary IP For Runtime Processes	<p>Refers to the IP Address of the primary machine for runtime processes. Select the IP address of the machine on which you want to execute the task, from the drop-down list.</p>

3. Click **Save** to save the task definition details. The new task details are displayed in the Task Details of the *Batch Maintenance* window with the Task ID.

In the Task Details tool bar of *Batch Maintenance* window you can select the Task ID and do the following:

- Click **+ Add** button to add another Task.
- Click **View** button and view the selected Task details.
- Click **Edit** to modify the selected Task details.
- Click **Delete** button to delete the selected Task details.


2.1.2.2 Defining Task Precedence

Task Precedence indicates the execution-flow of a Batch. Task Precedence value in the Task Details facilitates you to determine the order in which the specific Tasks of a Batch are executed.

For example, consider a Batch consisting of 4 Tasks. First 3 Tasks does not have a precedence defined and hence will be executed simultaneously during the Batch execution. But, Task 4 has precedence value as task 1 which indicates that, Task 4 is executed only after Task 1 has been successfully executed.





You can set Task precedence between Tasks, or schedule a Task to run after another Task, or even define to run a Task after a set of other tasks. However, multiple tasks can be executed simultaneously and cyclical execution of tasks is not permitted. If the precedence for a Task is not set, the Task it is executed immediately on Batch execution.

To define the task precedence in the *Batch Maintenance* window:

1. Click  button under the Precedence column of the task for which you want to add precedence task. The Task Precedence Mapping browser is displayed.

NOTE

Task Precedence option is disabled if a batch has only one task associated.

- Select the required Task from the Task List and click . You can press **Ctrl** key for multiple selections.
 - To select all the listed Tasks, click .
 - To remove a Task, select the task from Select Tasks pane and click .
 - To remove all the selected Tasks, click .
2. Click **OK** and update Task Precedence definition.

2.2 Batch Execution

Batch Execution refers to the process of initiating a Batch for current processing. When a Batch is submitted for execution, a series of commands are sent to the database with respect to the defined

component parameters. This in turn returns an array of update counts (required value definitions) when the commands are executed successfully.

You should have Batch Advanced User Role mapped to your User Group to execute a Batch.

The screenshot shows the 'Batch Execution' interface. At the top, there's a 'Batch Mode' section with radio buttons for 'Run' (selected), 'Restart', and 'Rerun'. Below that is a search section with fields for 'Batch ID Like', 'Batch Description Like', 'Module' (a dropdown), and 'Last Modification Date' (a date range selector). The 'Batch Details' section contains a table with columns 'Batch ID' and 'Batch Description'. The table lists several batches, including those with IDs starting with 'OFSAAAIINFO_'. Below the table is a pagination control showing 'Page 1 of 2 (1-7 of 9 items)'. The 'Task Details' section shows a table with columns 'Task ID', 'Task Description', 'Metadata Value', 'Component ID', 'Precedence', and 'Task Status', but it displays 'No data found'. At the bottom, there's an 'Information Date' field and an 'Execute Batch' button.

The *Batch Execution* window displays the list of only those Batches which have at least one task associated, with the other details such as Batch ID and Batch Description. When you select a Batch ID in the list, the Task Details sections displays all the defined Tasks associated with the Batch.

The Batch Details section in the *Batch Execution* window lists the Batches depending on the Batch Mode selected.

- The **Run** mode displays the Batch definitions which are newly defined and which have been scheduled for execution.
- The **Restart** Mode displays the Batch definitions which are not executed successfully or either has been interrupted during the previous Batch execution.
- The **Rerun** mode displays the Batch definitions which have been successfully executed, failed, cancelled, or even interrupted during the previous Batch execution.

You can search for a specific Batch based on the Batch ID, Batch Description, Module, or Last Modified Date. The pagination option helps you to view the list of existing Batches within the system.

2.2.1 Executing Batch

You can Run/Execute the Batches which are scheduled for execution in the *Batch Execution* window. You can also modify the pre-defined Batch schedule or define a new schedule using the Batch Scheduler. In the *Batch Execution* window you can execute a Batch in Run, Restart, or Rerun modes.

On completion of batch execution, if the batch fails, a notification mail is sent to all users mapped to the user group with the OPRMON role mapped to them.

2.2.1.1 Run/Execute Batch

You can Run/Execute Batch(s) which have been scheduled for execution in the *Batch Execution* window. You can also Run/Execute a Batch using the External Scheduler (ES) which has the “External Scheduler Interface Component” (ESIC) integrated with Infrastructure system.

To execute a Batch in the *Batch Execution* window:


1. Select **Run as Mode** in the Batch Mode section. The list of Batches scheduled for execution is displayed in the Batch Details section.

The screenshot shows the 'Batch Execution' window. At the top, there are two tabs: 'Batch Details' (selected) and 'Schedule Batch'. Below the tabs is a table with columns 'Batch ID' and 'Batch Description'. The table contains 7 rows. The 4th row is selected, with a checked checkbox. Below the table is a pagination control showing 'Page 1 of 2 (1-7 of 9 items)' and a 'Records Per Page' dropdown set to 7. Below this is another section with tabs: 'Task Details' (selected), 'Exclude/Include', and 'Hold/Release'. Below these tabs is a table with columns 'Task ID', 'Task Description', 'Metadata Value', 'Component ID', 'Precedence', and 'Task Status'. The table contains 1 row. Below the table is a pagination control showing 'Page 1 of 1 (1-1 of 1 items)' and a 'Records Per Page' dropdown set to 15. At the bottom of the window is an 'Execute Batch' button.

2. Select the checkbox adjacent to the Batch ID which has to be executed. The specified task(s) defined to the selected Batch are displayed in the Task Details section.
 - In the Batch Details tool bar, click **Schedule Batch** button to define new or modify the pre-defined Batch Schedule. For more information, see [Batch Scheduler](#).

The screenshot shows the 'Task Details' section of the 'Batch Execution' window. It has tabs: 'Task Details' (selected), 'Exclude/Include', and 'Hold/Release'. Below the tabs is a table with columns 'Task ID', 'Task Description', 'Metadata Value', 'Component ID', 'Precedence', and 'Task Status'. The table contains 1 row. Below the table is a pagination control showing 'Page 1 of 1 (1-1 of 1 items)' and a 'Records Per Page' dropdown set to 15.

- In the Task Details tool bar, click **Exclude/Include** button to Exclude/Include a task, or click **Hold/Release** button to hold or release a task before executing the Batch. For more information, see [Modify Task Definitions of a Batch](#).

- Specify the **Information Date** (mandatory) by clicking  button. The specified date is recorded for reference.

NOTE

You can also modify the required task parameters of the selected Batch and include the changes during the Batch rerun. For more information, see [Specify Task Details](#).

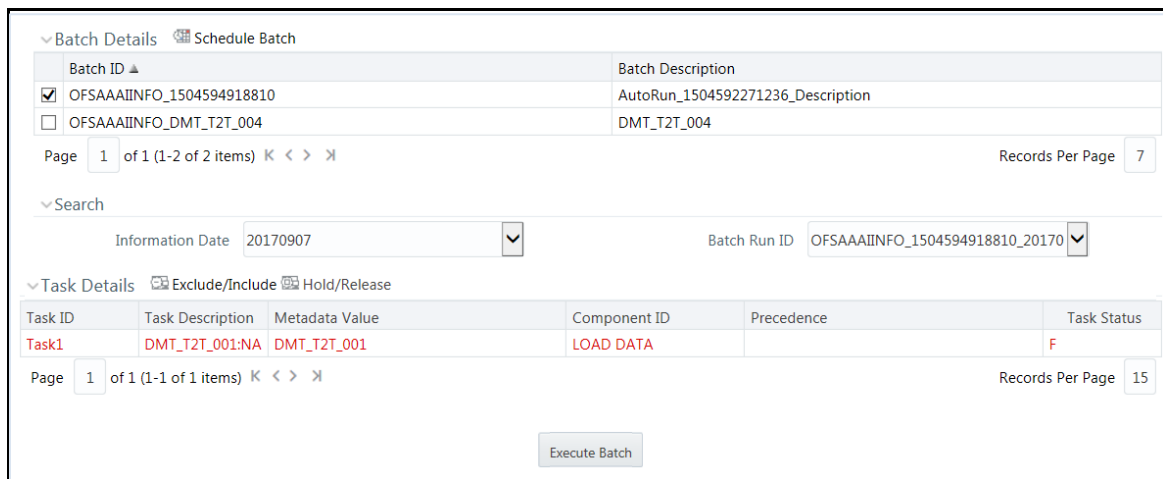
- Click **Execute Batch** button and select **OK** in the information dialog to confirm Batch Execution. An information dialog is displayed indicating that Batch Execution is triggered successfully.

2.2.1.2 Restart Batch


You can restart a Batch which has not been executed successfully or which has been explicitly interrupted, or cancelled, or put on hold during the execution process. These Batches are categorized separately and listed in the **Restart** mode within the *Batch Execution* window. By restarting a Batch, you can continue Batch execution directly from the point of interruption or failure and complete executing the remaining tasks.



To Restart a Batch in the *Batch Execution* window:

- Select **Restart** as **Mode** in the Batch Mode section. The list of interrupted/failed Batches during execution is displayed in the Batch Details section.



The screenshot displays the 'Batch Execution' window. At the top, there is a 'Batch Details' section with a 'Schedule Batch' button. Below it is a table with two rows: the first row is selected with a checkbox and shows 'Batch ID' as 'OFSAAAIIINFO_1504594918810' and 'Batch Description' as 'AutoRun_1504592271236_Description'; the second row is unselected and shows 'Batch ID' as 'OFSAAAIIINFO_DMT_T2T_004' and 'Batch Description' as 'DMT_T2T_004'. Below the table are navigation controls for 'Page 1 of 1 (1-2 of 2 items)' and 'Records Per Page 7'. A 'Search' section contains 'Information Date' set to '20170907' and 'Batch Run ID' set to 'OFSAAAIIINFO_1504594918810_20170'. Below that is a 'Task Details' section with 'Exclude/Include' and 'Hold/Release' buttons. It contains a table with one row: 'Task ID' is 'Task1', 'Task Description' is 'DMT_T2T_001:NA', 'Metadata Value' is 'DMT_T2T_001', 'Component ID' is 'LOAD DATA', and 'Task Status' is 'F'. Navigation controls for 'Page 1 of 1 (1-1 of 1 items)' and 'Records Per Page 15' are at the bottom. An 'Execute Batch' button is located at the bottom center.

- Select the checkbox adjacent to the Batch ID which has to be executed. The specified Task(s) defined to the selected Batch are displayed in the Task Details section.
 - In the Batch Details tool bar, click  **Schedule Batch** button to define new or modify the pre-defined Batch Schedule. For more information, see [Batch Scheduler](#).
- Select the **Information Date** from the drop-down list. This is a mandatory field.
- Select the **Batch Run ID** (mandatory) from the drop-down list. This is a mandatory field.

- In the Task Details tool bar, click  **Exclude/Include** button to exclude or include a task, or click  **Hold/Release** button to hold or release a task before executing the Batch. For more information, see [Modify Task Definitions of a Batch](#).

NOTE




The Tasks in a Batch which have failed during the execution process are indicated in Red in the Task Details section. You can modify the required task parameters in [Specify Task Details](#) window and include the changes during the Batch restart. Else, the tasks fail again during the Batch **Restart**.

5. Click **Execute Batch** button and select **OK** in the information dialog to confirm Batch Execution. An information dialog is displayed indicating that Batch Execution is triggered successfully.

2.2.1.3 Rerun Batch

You can rerun a Batch which has previously been executed. Rerun Batch facilitates you to run the Batch irrespective of the previous execution state. A new Batch Run ID is generated during the Rerun process and the Batch is executed as similar to the new Batch Run.

To rerun a Batch in the *Batch Execution* window:

1. Select **Rerun** in the Batch Mode section. The list of executed Batches is displayed in the Batch Details section.
2. Select the checkbox adjacent to the Batch ID which has to be executed. The specified Task(s) defined to the selected Batch are displayed in the Task Details section.
 - In the Batch Details tool bar, click  **Schedule Batch** button to define new or modify the pre-defined Batch Schedule. For more information, see [Batch Scheduler](#).
3. Select the **Information Date** from the drop-down list. This is a mandatory field.
4. Select the **Batch Run ID** from the drop-down list. This is a mandatory field.
 - In the Task Details tool bar, click  **Exclude/Include** button to exclude or include button a task, or click  **Hold/Release** button to hold or release a task before executing the Batch. For more information, see [Modify Task Definitions of a Batch](#).

NOTE

You can also modify the required task parameters of the selected Batch and include the changes during the Batch rerun. For more information, see [Specify Task Details](#).

5. Click **Execute Batch** button and select **OK** in the information dialog to confirm Batch Execution. An information dialog is displayed indicating that Batch Execution is triggered successfully.

2.2.2 Modifying Task Definitions of a Batch

You can modify the task definition state in the *Batch Execution* window to exclude or hold the defined task in a Batch from execution. The excluded tasks are therefore assumed to have completed execution and get excluded during the Batch Run.

While executing a Batch in the *Batch Execution* window, you can:

- Exclude a task or Include the excluded task.
- Hold a task and Release the held task.

When you modify the task definition(s) in the Task Details section:

- The Excluded task(s) are displayed in “**Grey**” with the Task Status set to “**K**”.
- The task(s) on Hold are displayed in “Red” with the Task Status set to “**H**”.




NOTE

In the combination, you are not permitted to Hold/Release an Excluded task or Exclude/Include a task which is on Hold.

2.2.2.1 Exclude Task Definitions

You can Exclude Task(s) definition or Include the Excluded task(s) during Batch Execution. The excluded task components are therefore executed in the normal process assuming that the Excluded Task(s) have completed execution.




To exclude Task(s) in the in the *Batch Execution* window:

1. Click  **Exclude/Include** button in the Task Details tool bar.
2. In the *Task Mapping* window, do one of the following:
 - To exclude a task, select the required task from the Available Tasks list and click . You can press **Ctrl** key for multiple selections.
 - To exclude all tasks in the Available Tasks list, click .
3. Click **OK** and return to the *Batch Execution* window.

The Excluded Task(s) in the task details section are marked in “**Grey**” with the Task Status set to “**K**”.

2.2.2.2 Include Excluded Task Definitions

To include an Excluded Task(s) in the in the *Batch Execution* window:




1. Click  **Exclude/Include** button in the Task Details tool bar.
2. In the *Task Mapping* window, do one of the following:
 - To include an excluded task, select the required task from the Set Tasks list and click . You can press **Ctrl** key for multiple selections.
 - To include all tasks in the Set Tasks list, click .

3. Click **OK** and return to the *Batch Execution* window.

2.2.2.3 Hold Task Definitions

You can Hold task(s) definition or Release the held task(s) during Batch Execution. In the Batch Run, the task(s) which are on Hold along with the defined components are skipped during execution. However, at least one task should be available in a Batch without being held/excluded for Batch execution.




To hold Task(s) in the in the *Batch Execution* window:

1. Click  **Hold/Release** button in the Task Details tool bar.
2. In the *Task Mapping* window, do one of the following:
 - To Hold a task, select the required task from the Available Tasks list and click . You can press **Ctrl** key for multiple selections.
 - To Hold all tasks in the Available Tasks list, click .
3. Click **OK** and return to the *Batch Execution* window.

The Task(s) on Hold in the task details section are marked in “**Red**” with the Task Status set to “**H**”.

2.2.2.4 Release Held Task Definitions


To Release Task(s) on Hold in the in the *Batch Execution* window:

1. Click  **Hold/Release** button in the Task Details tool bar.
2. In the *Task Mapping* window, do one of the following:
 - To release a held task, select the required task from the Set Tasks list and click . You can press **Ctrl** key for multiple selections.
 - To release all tasks in the Set Tasks list, click .
3. Click **OK** and return to the *Batch Execution* window.

2.3 Batch Scheduler

Batch Scheduler in the Infrastructure system facilitates you to schedule a Batch for later processing. You can define a new Batch schedule or update a previously defined Batch schedule for processing.

You should have Batch Advanced User Role mapped to your User Group to schedule a Batch. The *Batch Scheduler* window displays the list of Batches scheduled for execution with the other details such as Batch ID and Batch Description. When you select a Batch in the list, the Batch Scheduler options are displayed.

You can click  **Refresh** button in the Server Time section to view the Current Server Time while defining a Batch schedule. You can search for a specific Batch based on the Batch ID Like, Batch Description Like, Module, or Last Modified Date.

2.3.1 Creating Batch Schedule

You can define a new schedule for processing Batch by specifying the required day(s) and time intervals. The Batch is executed when the server time synchronizes with the scheduled time.

NOTE

Any change made to the Server Time to accommodate for Daylight Savings Time will not be reflected automatically in the Batch Scheduler. All OFSAA services have to be restarted after the time has been changed in the server to reflect the change in time in the Batch Scheduler.


The screenshot shows the 'Batch Scheduler' interface. At the top, there are search filters for 'Batch ID Like' (containing 'OFSAAIINFO_') and 'Batch Description Like'. Below these are filters for 'Module' and 'Last Modification Date' with date pickers. A 'Server Time' section shows the 'Current Server Time' as '17/04/2018 14:38:08'. A table lists batch items with columns for 'Batch ID' and 'Batch Description'. The first item, 'OFSAAIINFO_1523949760113', is selected with a checkbox. Below the table, there are pagination controls and a 'Records Per Page' dropdown set to 15. The 'Batch Scheduler' section shows 'Domain' as 'OFSAAIINFO' and 'Batch' as 'OFSAAIINFO_1523949760113', with 'New Schedule' selected. The 'New Schedule' section includes a 'Schedule Name' field and radio buttons for 'Once', 'Daily', 'Weekly', 'Monthly', and 'Adhoc'. The 'Schedule Time' section has 'Start Date' and 'End Date' pickers, and 'Run Time' fields for 'Hours' and 'Minutes', and a 'Lag' field for 'Days'. 'Save' and 'Cancel' buttons are at the bottom.

Batch ID ▲	Batch Description
<input checked="" type="checkbox"/> OFSAAIINFO_1523949760113	TEST1232
<input type="checkbox"/> OFSAAIINFO_BATCH1	BATCH1
<input type="checkbox"/> OFSAAIINFO_BATCH2	BATCH2
<input type="checkbox"/> OFSAAIINFO_OFFLINE_OBJECT_MIGRATION	OFSAAIINFO_OFFLINE_OBJECT_MIGRATION
<input type="checkbox"/> OFSAAIINFO_PMF_T2T	pmf t2t

To create a schedule for Batch processing in the *Batch Scheduler* window:

1. Select the checkbox adjacent to the Batch ID whose details are to be updated.
The options to schedule a new Batch are displayed. By default, the Schedule type is selected as **New Schedule** in the Batch Scheduler section.
2. In the New Schedule section, enter the **Schedule Name** to identify the task.
3. Select the **Schedule** option as one of the following, and specify the related details as tabulated:

Schedule Option	Schedule Task Details
Once (default option)	<p>Specify the Date on which the Batch has to be scheduled for processing using the Calendar.</p> <p>Enter the Run Time during which the Batch Scheduling should be run, in hours (hh) and minutes (mm) format.</p> <p>Enter the number of Lag days which signifies the misdate when the Batch is currently run. For the schedule type “Once” lag days is optional.</p>
Daily	<p>Specify the Dates, Start and End dates during which the Batch has to be scheduled for processing using the Calendar.</p> <p>Enter the Run Time during which the Batch Scheduling should be run, in hours (hh) and minutes (mm) format.</p> <p>Enter the number of Lag days which signifies the misdate when the Batch is currently run.</p> <p>Enter the frequency of Batch Run in the Every field as per the defined schedule type. For example, Every 2 day(s)</p>
Weekly	<p>Specify the Dates, Start and End dates during which the Batch has to be scheduled for processing using the Calendar.</p> <p>Enter the Run Time during which the Batch Scheduling should be run, in hours (hh) and minutes (mm) format.</p> <p>Enter the number of Lag days which signifies the misdate when the Batch is currently run.</p> <p>Enter the frequency of Batch Run in the Every field as per the defined schedule type. For example, Every 2 week(s).</p> <p>Select the checkbox adjacent to the Days of the Week to specify the days on which you need to run the Batch schedule.</p>
Monthly	<p>Specify the Dates, Start and End dates during which the Batch has to be scheduled for processing using the Calendar.</p> <p>Enter the Run Time during which the Batch Scheduling should be run, in hours (hh) and minutes (mm) format.</p> <p>Enter the number of Lag days which signifies the misdate when the Batch is currently run.</p> <p>Select Interval option to enter the frequency of Batch Run in the Every field or select Random to select the checkbox adjacent to Months on which you need to run the Batch schedule.</p> <p>Do one of the following:</p> <p>Select Dates (default) option and enter the Dates of the Month on which you need to run the Batch schedule. Also select the checkbox Include Month’s Last Date to do so.</p> <p>-Or-</p> <p>Select Occurrence and specify the day of the week days and select the specific weekday by clicking on the drop-down list.</p>


Schedule Option	Schedule Task Details
Adhoc	<p>Specify the Information Date of Batch schedule using the Calendar.</p> <p>Specify the Run Date of Batch schedule using the Calendar.</p> <p>Enter the Run Time of Batch schedule in hours (hh) and minutes (mm) format.</p> <p>You can also click + to add another row or click  to delete the row in the Schedule Time tool bar.</p>

4. Click **Save** to save the new Batch schedule details.








2.3.2 Updating Existing Batch Schedule

You can modify the required details and later schedule the previously defined Batch for processing.

To update existing Batch schedule in the *Batch Scheduler* window:

1. Select the checkbox adjacent to the Batch ID whose details are to be updated. The various Batch schedule options are displayed.
2. In the Batch Scheduler section, select **Existing Schedule** as the **Schedule** type. The window is refreshed and displays the Existing Schedule options.
3. Select the Schedule name whose details you want to modify from the drop-down list.
4. Click  button in the Existing Schedule toolbar. The details of the scheduled Batch are displayed in the Batch Scheduler pane.
5. Modify the required details. You can modify the Start and End dates, Run Time, Lag days, and other details depending on the Schedule Type selected. For more information, see [Creating Batch Schedule](#).
6. Click **Save** to save the modified details of an existing Batch schedule.

You can also do the following in the Existing Schedule section of the *Batch Scheduler* window:

- Click  button to view details of the selected Batch schedule.  and  buttons are displayed.
- Click  button to view **Task Logs**.
- Click  button to view all the log details for the selected Batch.
- Click  button to delete the selected Batch schedule.
- Click  button to reset the Batch scheduler details.

2.4 Batch Monitor

Batch Monitor in the Infrastructure system facilitates you to view the status of executed Batch definitions along with the tasks details. You can track the issues if any, on regular intervals and ensure smoother Batch execution. An event log provides you the real time status of the executed Batches.

You should have Batch Read Only User Role mapped to your User Group to monitor a Batch. The *Batch Monitor* window displays a list of Batches with the other details such as Batch ID and Batch Description.

You can search for a specific Batch based on Date range, Module, Status, and Batch Description. The Batches listed in the Batch Details section can be sorted based on the current state as Successful, Failed, Held, or New.

2.4.1.1.1 Crash Handling of Backend Servers

There are 3 different servers to execute a specific executable such as ICC, Router and Activation Manager (AM). Request from ICC goes to Router and get forwarded to Activation Manager (AM). Then AM executes the task and sends result back to Router which further gets forwarded to ICC.

If any of the server crashes while executing the batch and when recovery happens, the status is sent back to ICC server.

- **Router goes down:** When router goes down, the Task Status will become indeterminate and the Batch Status will become **Failed**.
- **AM goes down:** If AM goes down while executing a task, as soon as AM comes up, status of all tasks in the Batch will change to Indeterminate and the Batch Status will become **Failed**.
- **ICC goes down:** When ICC goes down, the status of the task will become interrupted and the Batch Status will become **Failed**.
 - ICC will mark all the task status as interrupted even though some of the tasks might have executed successfully.
 - You have to manually validate the data before you re-trigger the batch again.

2.4.2 Monitoring Batch

The Batch Details section in the *Batch Monitor* window lists all the Batches which are schedule or executed within the Infrastructure system.

The screenshot shows the 'Batch Monitor' interface. At the top, there are search filters for 'Batch ID Like' (OFSAAAINFO_), 'Batch Description Like', 'Module', 'Status', 'Start Date', and 'End Date'. Below the filters is a table with the following data:

Batch ID	Batch Description
<input type="checkbox"/> OFSAAAINFO_BATCH1	BATCH1
<input checked="" type="checkbox"/> OFSAAAINFO_BATCH2	BATCH2
<input type="checkbox"/> OFSAAAINFO_OFFLINE_OBJECT_MIGRATION	OFSAAAINFO_OFFLINE_OBJECT_MIGRATION
<input type="checkbox"/> OFSAAAINFO_PMF_T2T	pmf t2t

Below the table, there are controls for 'Page 1 of 1 (1-4 of 4 items)', 'Records Per Page 15', and 'Batch Run Details' including 'Start Monitoring', 'Stop Monitoring', 'Reset', 'Information Date', 'Monitor Refresh Rate (seconds) 5', and 'Batch Run ID'.

You can view and monitor the required Batch definitions and the corresponding task details. You can also export the values in Microsoft Excel format for reference.

To monitor a Batch in the *Batch Monitor* window:

1. Select the checkbox adjacent to the Batch ID whose details are to be monitored.

You can also search for a specific Batch by using the Search option and filter the search results by selecting the required Status as Successful, Failed, Held, or Not Started in the drop-down list.

2. Enter the Batch Run Details as tabulated.

Field	Description
Information Date	Select the information date from the drop-down list which consists of recently executed Batch Information dates.
Monitor Refresh Rate	Specify the refresh rate at which the latest Batch status details have to be fetched in seconds. You can enter a value between 5 to 999 seconds.
Batch Run ID	Select the Batch Run ID from the drop-down list which consists of Batch ID's form which the Batch has been executed.

3. Click  **Start Monitoring** button in the Batch Run Details tool bar.




The state of the selected Batch is monitored and status is displayed in the following order:

<div style="border: 1px solid black; padding: 5px;"> <div style="background-color: #f2f2f2; padding: 2px;">Batch Status</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;">Batch Run ID</th> <th style="width: 40%;">Batch Status</th> </tr> </thead> <tbody> <tr> <td>OFSAAAINFO_BATCH1_20180417_1</td> <td>Successful</td> </tr> </tbody> </table> </div>							Batch Run ID	Batch Status	OFSAAAINFO_BATCH1_20180417_1	Successful								
Batch Run ID	Batch Status																	
OFSAAAINFO_BATCH1_20180417_1	Successful																	
<div style="border: 1px solid black; padding: 5px;"> <div style="background-color: #f2f2f2; padding: 2px;">Task Details</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Task ID</th> <th style="width: 20%;">Task Description</th> <th style="width: 20%;">Metadata Value</th> <th style="width: 15%;">Component ID</th> <th style="width: 15%;">Task Status</th> <th style="width: 20%;">Task Log</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> Task1</td> <td>null</td> <td>1433861367704</td> <td>RULE_EXECUTION</td> <td>[13314] Successful</td> <td>View Log</td> </tr> </tbody> </table> </div>							Task ID	Task Description	Metadata Value	Component ID	Task Status	Task Log	<input type="checkbox"/> Task1	null	1433861367704	RULE_EXECUTION	[13314] Successful	View Log
Task ID	Task Description	Metadata Value	Component ID	Task Status	Task Log													
<input type="checkbox"/> Task1	null	1433861367704	RULE_EXECUTION	[13314] Successful	View Log													
<div style="border: 1px solid black; padding: 5px;"> <div style="background-color: #f2f2f2; padding: 2px;">Event Log Export</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Message ID</th> <th style="width: 50%;">Description</th> <th style="width: 15%;">Severity</th> <th style="width: 25%;">Time</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>[1707] Batch started by AAAUSER</td> <td>INFORM</td> <td>2018-04-17 05:29:53</td> </tr> <tr> <td>7</td> <td>[1708] Batch Complete</td> <td>INFORM</td> <td>2018-04-17 05:33:50</td> </tr> </tbody> </table> </div>							Message ID	Description	Severity	Time	1	[1707] Batch started by AAAUSER	INFORM	2018-04-17 05:29:53	7	[1708] Batch Complete	INFORM	2018-04-17 05:33:50
Message ID	Description	Severity	Time															
1	[1707] Batch started by AAAUSER	INFORM	2018-04-17 05:29:53															
7	[1708] Batch Complete	INFORM	2018-04-17 05:33:50															

- The **Batch Status** section displays the Batch Run ID with the Batch Status as Successful, Failed, Held, or Not Started.
 - Successful- Batch execution is successful.
 - Failed- Batch execution failed. A notification mail is sent to all users mapped to the user groups with the OPRMON role mapped to them. The mail will show the exact task status as Not Run, Excluded, Held, Interrupted, Indeterminate and Cancelled.
 - Held- Batch execution is put on hold.
 - Not Started- Batch execution has not started.
- The **Task Details** section displays the executed task details such as Task ID, Task Description, Metadata Value, Component ID, Task Status and Task Log. Click **View Log** link to view the *View Logger* window. You can select the checkbox adjacent to the Task ID to view the task component execution details in Event Log section.

NOTE

If the component used in the task is Data Transformation, the status will be **Successful** or **Failed** based on the invocation of function/procedure is successful or failure. The errors produced by PL/SQL will not have impact on task status unless it throws an oracle exception.

- The **Event Log** section displays the list of errors and events of the Batch being executed. The events are displayed in the ascending order with the latest event being displayed at the top. The Event log consists of:
 - Message ID, which is auto generated.
 - Description, which has the error details.
 - Severity, which can be Fatal, Inform, or Successful.
 - Time, which indicates the time of the event.
- 4. In the Batch Run Details tool bar, you can do the following:
 - Click  button to stop the Batch monitoring process.
 - Click  button to reset Batch Run Details.
- 5. In the Event Log tool bar, you can click  **Export** button to export the event log details to Microsoft Excel file for reference.

2.5 Processing Report

Batch Processing Report in the Infrastructure system facilitates you to view the execution status of each task component defined in a Batch. The *Batch Processing Report* window displays the Batch execution details such as Component, Task, Parameters, and Status. By default, the details of the Latest Batch Run are displayed.

You should have Batch Read Only User Role mapped to your User Group to cancel a Batch.

Batch Processing Report			
Information Date: <input type="text" value="20180417"/> Batch Status: <input type="text" value="ALL"/>			
Batch Processing Report as of Tuesday, April 17, 2018 11:31:19 AM GMT for Information domain: OFSAAAIIINFO			
Execution Date : 2018-04-17 07:13:38 Batch Run ID : OFSAAAIIINFO_OFFLINE_OBJECT_MIGRATION_20180417_8			
Component	Task	Parameters	Status
RUN EXECUTABLE	TASK1	Batch Parameter : Y Datastore Name : OFSAAAIIINFO Datastore Type : EDW Executable : ObjectMigration_ULsh IP Address : whf00alh Optional Parameters : NULL Wait : Y	S
Execution Date : 2018-04-17 06:38:11 Batch Run ID : OFSAAAIIINFO_OFFLINE_OBJECT_MIGRATION_20180417_7			
Execution Date : 2018-04-17 05:47:44 Batch Run ID : OFSAAAIIINFO_T2T_TEST_20180417_2			
Execution Date : 2018-04-17 05:45:01 Batch Run ID : OFSAAAIIINFO_1523958300303_20180417_1			
Execution Date : 2018-04-17 05:36:29 Batch Run ID : OFSAAAIIINFO_T2T_TEST_20180417_1			
Execution Date : 2018-04-17 04:41:42 Batch Run ID : OFSAAAIIINFO_PMF_T2T_20180417_1			
Execution Date : 2018-04-17 04:27:42 Batch Run ID : OFSAAAIIINFO_BATCH2_20180417_2			

To view the status of the required Batch, in the *Batch Processing Report* window:

1. Select the **Information Date** from the drop-down list. The list consists of executed Batch Information dates in the descending order with the latest Batch Run details being displayed at the top.
2. Select the required **Batch Status** from the drop-down list. The available batch statuses are:
 - ALL
 - Not Started
 - Ongoing
 - Complete
 - Failed
 - Cancelled

The window is refreshed and displays the status of each executed component of the selected Batch with the Task ID, defined Parameters, and the Status.


See the following table to know the available Status Codes of the task and their description.

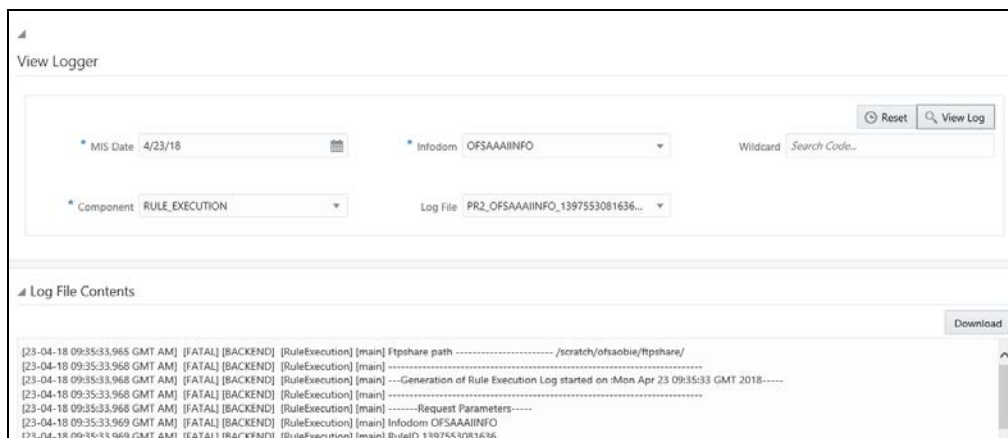
Status Code	Description
N	Not Run - Task has not been executed.
F	Failed- Task execution failed due to some error.
S	Success- Task has been successfully executed.
O	Ongoing - Task is being executed.

Status Code	Description
C	Completed – Task execution completed.
R	Restart - Task restarted.
H	Held- Task is on Hold.
K	Excluded - Task has been excluded.
I	Interrupted - Task has been interrupted since ICC server was down.
Q	Task Cancelled - Task has been manually cancelled during execution.
D	Indeterminate – When Router or AM server goes down and is up again during task execution, the task status becomes Indeterminate.

2.6 Execution View Log

The Execution View Log feature allows to view, on the *View Logger* window, the log files generated in a batch execution.

1. Login to OFSAA.
2. Click  from the header to display the applications in a Tiles menu.
3. Select the **Financial Services Enterprise Modeling** application from the Tiles menu. The Navigation list to the left is displayed.
4. Click **Common Tasks** to expand the list.
5. Click **Operations** to expand the list further.
6. Click **Execution View Log** to display the *View Logger* window.



7. Enter the details on the window as instructed in the following:
 - a. **MIS Date** (mandatory): Click and select the Management Information System date for the log from the Date Editor.
 - b. **Infodom** (mandatory): Select the required Infodom from the drop-down list.
 - c. **Wildcard** (optional): Enter any wildcard value to filter the search.

- d. **Component** (mandatory): Select the required component from the drop-down list.
 - e. **Log File**: Select the required log file from the drop-down list.
8. Click **View Log** to run the log details in the Log File Contents pane. Click **Download** and download the log file if required. Click **Reset** to remove the selected data on the window.

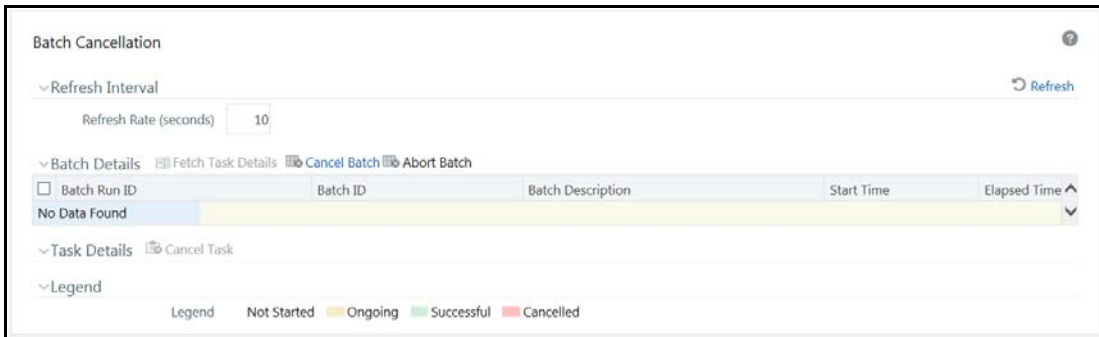
2.7 Batch Cancellation

Batch Cancellation in the Infrastructure system facilitates you to cancel or abort a Batch, or a specific Task, which is either scheduled or is in the process of execution.

In the Batch Cancellation,

- When a Batch is **aborted**, the Task which is in the process of execution will be interrupted and a scheduled task is cancelled from execution.
- When a Batch is **cancelled**, the Task which is in the process of execution will be executed completely and a scheduled task is cancelled from execution.
- When a Task is **cancelled**, all the dependent Tasks are also cancelled automatically.

You should have Batch Advanced User Role mapped to your User Group to cancel a Batch. The *Batch Cancellation* window displays a list of scheduled and current processing Batches with the other details such as Batch Run ID, Batch ID, Batch Description, Start Time, and Elapsed Time.



In the *Batch Cancellation* window, you can do the following before cancelling a Batch/Task:

- In the Refresh Interval section, you can define the required **Refresh Rate** in seconds to fetch the current status of Batches being executed.
- Click **Refresh** button to refresh the window and fetch the current status of Batches being executed.
- In the Legend section, you can refer to know the specific defined colors which are used to indicate a particular state of a Task during Batch execution.

Indicates - Not Started


Indicates - On Going

Indicates - Successful

Indicates - Cancelled

2.7.1 Cancelling Batch



You can cancel a Batch or a specific Task within the Batch, when you want to postpone or reschedule the Batch for later execution. To cancel a Batch in the *Batch Cancellation* window:

1. Select the checkbox adjacent to the Batch Run ID which has to be cancelled.
2. Click  **Cancel Batch** in the Batch Details tool bar. The selected Batch is cancelled from processing and the results are displayed in a confirmation dialog. Click **OK**.


The Tasks associated with the cancelled Batch are also cancelled excluding the ongoing Tasks. The cancelled Batch can be viewed in Restart and Rerun Batch list, within the *Batch Execution* window.

2.7.1.1 Cancel Task Details

To cancel the specific Task(s) in a Batch from processing:

1. Select the checkbox adjacent to the Batch Run ID.
2. Click  **Fetch Task Details** in the Batch Details tool bar. The defined Task(s) are displayed in the Task Details section.
3. Click  **Cancel Task** in the Task Details tool bar.


NOTE

The  **Cancel Task** button will be disabled if you are not mapped to TASKCANCEL function role.


The selected Task is cancelled from processing and the results are displayed in a confirmation dialog. Click **OK**.

2.7.2 Aborting Batch

You can abort a Batch when you want to terminate the Batch execution before completion. To abort a Batch in the *Batch Cancellation* window:

1. Select the checkbox adjacent to the Batch Run ID which has to be aborted.
2. Click  **Abort Batch** button in the Batch Details tool bar. The selected Batch is aborted from processing and the results are displayed in a confirmation dialog. Click **OK**.

NOTE

The  **Abort Batch** button is disabled if you are not mapped to OPRABORT function role.

The Tasks associated with the cancelled Batch are also cancelled including the ongoing Tasks. The cancelled Batch can be viewed in Restart and Rerun Batch list within the *Batch Execution* window.

2.8 View Log

View Log in the Infrastructure system facilitates you to view the execution status of each task component defined in a Batch.

NOTE Currently only limited number of Component Types are supported for viewing log. The supported component types can be viewed from the **Component Type** drop-down list in the Search grid.

You should have Batch Read Only User Role mapped to your User Group to cancel a Batch.

The screenshot shows the 'View Log' interface. At the top, there are search filters: 'Component Type' (set to 'Model Upload'), 'Folder', 'User', 'As of Date', 'Task Name', and 'Batch Run ID'. Below the filters is a table with columns: Component, Task Name, Task ID, Status, Start Date, End Date, Elapsed Time, and User. The table contains two rows of data for 'Model Upload' tasks. At the bottom, there is a pagination control showing 'Page 1 of 1 (1-2 of 2 items)' and a 'Records Per Page' dropdown set to '2'.

Component	Task Name	Task ID	Status	Start Date	End Date	Elapsed Time	User
Model Upload	MODEL_CMD_EXECUTE_200001	200001	Success	04/16/2018 19:03:34	04/16/2018 19:26:49	00:23:15	AAAIUSER
Model Upload	MODEL_CMD_EXECUTE_200000	200000	Success	04/16/2018 18:30:32	04/16/2018 18:43:33	00:13:01	AAAIUSER





The *View Log* window displays Task ID's Information such as Component, Task Name, Task ID, Process Type, Status, Start Date, End Date, Elapsed Time, User, Batch Run ID, As of Date, Process Step, Records Processed, and Number of Errors for the respective Component Type selected.


2.8.1 Search and View Task ID Log


To search for a Task ID and view the log information:

1. Specify the details in any or all of the following parameters:

Field	Description
Component Type	Select the Component Type from the drop-down list. The available component types are listed and based on the component type selected, the Task ID details are displayed. For example, if the component type is selected as Object Validation, then the Task ID Information section displays the Date, Component, Batch Run ID, and Task ID. Note: No Log records are displayed for some component types such as SQL Rules. This is a limitation.
As Of Date	Select the date using the Calendar. This field is not applicable for some component types.

Field	Description
Folder	Select the folder from the drop-down list. This field is not applicable for some component types.
Task Name	<p>This field is not applicable for some component types.</p> <p>Click  button, the <i>Task Name Browser</i> window is displayed.</p> <ul style="list-style-type: none"> Search for the required Task by entering the keyword in the Search field and click . Select the required task from Available Task list and click . <p>You can also click  button to deselect a Task from the selected list.</p> <ul style="list-style-type: none"> Click OK.
User	This field is not applicable for some component types. Enter the user details.
Batch Run ID	This field is not applicable for some component types. Enter the Batch Run ID which has a unique ID (timestamp) and a short description for identification.

- Click  **Search**. The Task ID Information section displays the search results based on the specified parameters.

You can click  **Reset** to reset the search fields.

- In the Task ID Information section, click the Task ID of the required component. The *View Log Details* window is displayed with additional information.

NOTE

There are differences in time stamp between View Log and FSI_MESSAGE_LOG.

2.9 References

This section of the document consists of information related to intermediate actions that needs to be performed while completing a task. The procedures are common to all the sections and are referenced where ever required. You can refer to the following sections based on your need.

2.9.1 Task Component Parameters

Components are individual functional units that are put together to form a process. Task Component Parameters reflect the parameters that are being applied to the selected task. Each component triggers its own set of processes in the back-end to achieve the final output.

The parameters required for each of the component ID's are as tabulated.

NOTE

The FIRERUN Component in ICC is not supported.

2.9.1.1 Component: AGGREGATE DATA

Property	Description
Cube Parameter	Refers to the cube identifier as defined through the Business Metadata (Cube) menu option. Select the cube code from the drop-down list.
Operation	Select the operation to be performed from the drop-down list. The available options are ALL , GENDATAFILES , and GENPRNFILES .
Optional parameters	Refers to the additional parameter that has to be processed during runtime. You can specify the runsk value that should be processed as a runtime parameter during execution. By default, the value is set to “null”.

2.9.1.2 Component: CREATE CUBE

Field	Description
Cube Parameter	Refers to the cube identifier as defined through the Business Metadata (Cube) menu option. Select the cube code from the drop-down list.
Operation	<p>Refers to the operation to be performed. Select the required Operation from the drop-down list. The options are:</p> <ul style="list-style-type: none"> • ALL – This option will execute BUILDDDB and DLRU. • BUILDDDB – This option should be used to build the outline in Essbase Cube. The outline is built based on the parentage file(s) contents. • TUNEDB – This option should be used to analyze data and optimize cube settings. For example, if you are trying to achieve the best block size, where 64K bytes is the ideal size. • PROCESSDB – This option will execute BUILDDDB and DLRU, and is same as All option. Selecting this option will internally assign as ALL. • DLRU – This option should be used to Load Data in the Essbase Cube and trigger a Rollup. • ROLLUP – ROLLUP refers to populating data in parent nodes based on calculations (E.g. Addition). This option should be used to trigger just the ROLLUP option where in the CALC scripts are executed. The same is applicable for DLRU option also. • VALIDATE – This option will validate the outline. • DELDB – This option will delete the Essbase cube. • OPTSTORE – This option will create the Optimized outline for the cube.

2.9.1.3 Component: EXTRACT DATA

Field	Description
Source Name	Select the source from which the extract you want to execute is derived, from the drop-down list. Sources defined from the <i>Source Designer</i> window of Data Management Tools are displayed in the drop-down list.
Extract Name	Select the required extract name from the drop-down list. The list displays the Data Mapping definitions (T2F and H2F) defined on the selected source, from the <i>Data Mapping</i> window.
Default Value	

2.9.1.4 Component: LOAD DATA

Field	Description
Load Mode	Select the load mode from the drop-down list. The options are Table to Table and File to Table . Table to Table should be selected for Data Mapping definitions such as T2T, T2H, H2T, H2H and L2H definitions. File to Table should be selected for Data Mapping definitions such as F2T and F2H definitions.
Source Name	Select the required source on which the Data Mapping or Data File Mapping definition you want to execute is defined, from the drop-down list. Based on the selection of Load Mode, the list displays the corresponding sources.
File Name	Select the Data Mapping or Data File Mapping definition you want to execute, from the drop-down list. Based on the selected Load Mode and Source Name , the list displays the corresponding definitions.
Data File Name	The data filename refers to the .dat file that exists in the database. Specifying Data File Name is mandatory for Load Mode selected as File to Table and optional for Load Mode selected as Table to Table . If the file name or the .dat file name is incorrect, the task fails during execution. In case of L2H, you can specify the WebLog name.
Default Value	Used to pass values to the parameters defined in Load Data Definition. You can pass multiple runtime parameters while defining a batch by specifying the values separated by 'comma'. For example, \$MIS_DATE=value,\$RUNSKEY=value,[DLCY]=value and so on. Note the following: <ul style="list-style-type: none"> The parameters can either be specified with \$ or within []. For example, \$RUNSKEY=value or [RUNSKEY]=value. When the definition is saved from the UI, no value is assigned to these parameters and these are just passed for syntax correctness only. Actual values will be passed to these parameters while defining an ICC batch or a RUN. The list of valid Default Parameters are: <ul style="list-style-type: none"> RUNID- Data type is String and can be mapped to VARCHAR2

Field	Description
	<ul style="list-style-type: none"> • PHID- Data type is String and can be mapped to VARCHAR2 • EXEID- Data type is String and can be mapped to VARCHAR2 • RUNSK- Data type is Integer and can be mapped to VARCHAR2 or INTEGER. • SYSDATE- Data type is Date and can be mapped to DATE, VARCHAR2. • TASKID- Data type is String and can be mapped to VARCHAR2 • MISDATE- Data type is Date and can be mapped to DATE, VARCHAR2. • BATCHRUNID- Data type is String and can be mapped to VARCHAR2 <p>Note: RUNID, PHID, EXEID, RUNSK, MISDATE and BATCHRUNID are implicitly passed through RRF. Rest must be explicitly passed.</p> <ul style="list-style-type: none"> • EXEC_ENV_SOURCE- This parameter is used to replace an External Data source or Infodom based Data Source of the T2T, T2H, H2T or H2H definition during run time, provided the structure of the source in the mapping definition is same as that of the replacing source. Hence you can convert a T2T definition into H2T or T2H into H2H and so on. If the resultant definition is T2T, then T2T execution using CPP engine is not supported. For external Data Source, prefix it with 'EXT.' and for Infodom based sources, prefix it with 'INF.'. For example, [EXEC_ENV_SOURCE]=EXT.<newSourceName> or [EXEC_ENV_SOURCE]=INF.<newSourceName> Additionally, Cluster properties of the current logged-in Infodom will be considered for the execution of the Data Mapping definition. • EXEC_ENV_SOURCE_OWNER_INFODOM –This parameter is used to specify the Infodom where the Data Source being replaced (<newSourceName>) was created, in case that Infodom is different from the current Infodom where the batch is executed. If this is not provided, it will look for the Data Source in the current Infodom and may result in failed execution. • EXEC_ENV_TARGET- This parameter is used to replace the target Infodom of the T2T, T2H, H2T or H2H definition during run time, provided the structure of the target in the mapping definition is same as that of the replacing target. Hence you can convert a T2T definition into T2H or H2T into H2H and so on. But if the resultant definition is T2T, then T2T execution using CPP engine is not supported. For example, [EXEC_ENV_TARGET]=newTargetName Also, DMT Configurations and Cluster properties of the new target Infodom will be considered for the execution of the Data Mapping definition. Note: You can use both EXEC_ENV_SOURCE and EXEC_ENV_TARGET together as well. Only limitation is, if the resultant definition is T2T, execution using CPP engine is not supported. Note: If you are converting a mapping definition to T2H using EXEC_ENV_SOURCE/EXEC_ENV_TARGET, there is no provision in UI to specify the Split By Column/Generic Options. In such scenarios, execution via Sqoop may fail, when the split by column is defaulted to a string/date column. • EXECUTION_ENGINE_MODE- This parameter is used to execute H2H on Spark. For example, [EXECUTION_ENGINE_MODE]=SPARK

Field	Description
	<ul style="list-style-type: none"> • CLOSE_SPARK_SESSION- This parameter is used to close the Spark session after executing the last H2H-Spark task in the batch. In a batch execution, a new Spark session is created when the first H2H-Spark task is encountered, and the same Spark session is reused for the rest of the H2H-Spark tasks in the same run. For the Spark session to close at the end of the run, user needs to set the CLOSE_SPARK_SESSION to YES in the last H2H-spark task in the batch. For example, [CLOSE_SPARK_SESSION]=YES • SRCHINT- This parameter is used to provide Source Hints. For example, [SRCHINT]= FIRST_ROWS(2) Note that the value should not contain /*+ */. Only the content should be given. • SRCPRESCRIPT- This parameter is used to provide Source Prescript. Note: ALTER keyword is not supported. • TARGETHINT- This parameter is used to provide Target Hints. For example, [TARGETHINT]= FIRST_ROWS(2) Note that the value should not contain /*+ */. Only the content should be given. • TARGETPRESCRIPT- This parameter is used to provide Target Prescript. Note: ALTER keyword is not supported. <p>Apart from these, L2H/H2H/T2H/H2T/F2H data mappings also support following additional default parameters. Values for these are implicitly passed from ICC/RRF.</p> <ul style="list-style-type: none"> • \$MISDT_YYYY-MM-DD - Data type is String and can be mapped to VARCHAR2. Value will be the MISDATE in 'yyyy-MM-dd' format. • \$MISYEAR_YYYY - Data type is String and can be mapped to VARCHAR2. Value will be the year value in 'yyyy' format from MISDATE. • \$MISMONTH_MM - Data type is String and can be mapped to VARCHAR2. Value will be the month value in 'MM' format from MISDATE. • \$MISDAY_DD - Data type is String and can be mapped to VARCHAR2. Value will be the date value in 'dd' format from MISDATE. • \$SYSDT_YYYY-MM-DD- Data type is String and can be mapped to VARCHAR2. Value will be the System date in 'yyyy-MM-dd' format. • \$SYSHOUR_HH24 - Data type is String and can be mapped to VARCHAR2. Value will be the hour value in 'HH24' format from System date. <p>Note: The aforementioned parameters are not supported for T2T/F2T/T2F/H2F.</p> <ul style="list-style-type: none"> • Only those variable which start with \$ or [, will be replaced at run time and the value of this variable will be equal to anything starting after "=" and ending before comma ",". For example, if \$DCCY/[DCCY]='USD', \$RUNSKEY=1, then the replaced value in query for \$DCCY will be 'USD' and for \$RUNSKEY will be 1. • If you are using "RUNSKEY" parameter in ICC Batch, then ensure that you specify the value of it instead of specifying \$RUNSKEY / [RUNSKEY]. For example, FCT_STANDARD_ACCT_HEAD.N_RUN_SKEY='\$RUNSKEY'. Since the value of RUNSKEY will not be replaced during runtime. • If there are quotes specified in parameter name, then ensure not to use quotes while defining the expression or vice versa to avoid SQL errors. For example, if

Field	Description
	<p>the parameter name is \$DCCY='USD' and the expression is defined using 'DCCY' instead of \$DCCY, then the final value will be 'USD' .</p> <ul style="list-style-type: none"> When you execute a RUN, the run is always tagged with a RUNSK value (a unique value for each run fired directly from the RRF). You might have a DERIVED COLUMN in your T2T with expression like \$RUNSK. If you execute this T2T through a RUN, a unique RUNSK value is passed implicitly to the T2T engine, which then assigns that value wherever \$RUNSK is found. But if you try to execute the T2T through ICC, then you need to explicitly pass a \$RUNSK as a parameter so that the T2T engine can use it. <p>Two additional parameters are now supported for L2H mappings:</p> <ul style="list-style-type: none"> [INCREMENTALLOAD] – Specify the value as TRUE/FALSE. If set to TRUE, historically loaded data files will not be loaded again (load history is checked against the definition name, source name, target infodm, target table name and the file name combination). If set to FALSE, the execution is similar to a snapshot load, and everything from the source folder/file will be loaded irrespective of load history. [FOLDERNAME] – Value provided will be used to pick up the data folder to be loaded. <ul style="list-style-type: none"> For HDFS based Weblog source: Value will be suffixed to HDFS File Path specified during the source creation. For Local File System based Weblog source: By default the system will look for execution date folder (MISDATE: yyyyymmdd) under STAGE/<source name>. If the user has specified the FOLDERNAME for this source, system will ignore the MISDATE folder and look for the directory provided as [FOLDERNAME].

2.9.1.5 Component: MODEL

Field	Description
Rule Name	Refers to the model that has to be processed. This is a system generated code that is assigned at the time of model definition.
Operation	The All definition for the Operation field conveys the process of extracting the data from the flat files and applying the run regression on the data extracted. For Batches that are being built for the first time the data will be extracted from the flat files and the run regression will be applied on it.
Optional Parameters	Refers to the set of parameters specific to the model that has to be processed. This set of parameters is automatically generated by the system at the time of definition. You must NOT define a Model using the Define mode under Batch Scheduling. You must define all models using the Modeling framework menu.

2.9.1.6 Component: PROCESS_EXECUTION

This component will combine all the rules to create single or multiple merge queries. Only rules defined on the same dataset can be merged. For creation of queries the current order of the rules

inside the process or sub-process will be taken into consideration. Following validations are performed to determine single or multiple DMLs for merging Rules that is, validation on subsequent rules.

- For classification-classification or classification-computation rule combination, the target column of the prior classification rule must not be used in any of the subsequent rules as source hierarchies in the executable process or sub-process. Also the same target hierarchy must not be used as a target in the subsequent rule.
- For computation-computation rule combination, the target measures of the prior computation rule must not be used in any of the subsequent computation rules in the executable process or sub-process.

All the merge queries created after satisfying all the conditions will be executed in a single transaction.

NOTE	<ul style="list-style-type: none"> • RRF framework cannot validate the semantic correctness of the rules grouped for merge. It is left to the application developer/user to make a conscious choice. • If the merge results in an ill-formed or runaway SQL, the framework will not be able to detect it at design time. This is again left to application developer/user to design the grouping that is syntactically valid.
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Field	Description
Process Code	Display the codes of the RRF Processes defined under the selected Infodomain. Select the required Process from the drop-down list.
Sub Process Code	Display the codes of the Sub Processes available under the selected Process. Select the required Sub Process from the drop-down list.
Build Flag	<p>Select the required option from the drop-down list as “Yes” or “No”.</p> <p>Build Flag refers to the pre-compiled rules, which are executed with the query stored in database. While defining a Rule, you can make use of Build Flag to fasten the Rule execution process by making use of existing technical metadata details wherein the rule query is not rebuilt again during Rule execution.</p> <p>Built Flag status set to “No” indicates that the query statement is formed dynamically retrieving the technical metadata details. If the Build Flag status is set to “Yes” then the relevant metadata details required to form the rule query is stored in database on “Save” of a Rule definition. When this rule is executed, database is accessed to form the rule query based on stored metadata details, thus ensuring performance enhancement during Rule execution.</p>
Optional Parameters	Refers to the set of parameters which would behave as filter criteria for the merge query.

2.9.1.7 Component: RULE_EXECUTION

Field	Description
Rule Code	Display the codes of the RRF Rules defined under the selected Infodomain.

Field	Description
Build Flag	<p>Select the required option from the drop-down list as “Yes” or “No”.</p> <p>Build Flag refers to the pre-compiled rules, which are executed with the query stored in database. While defining a Rule, you can make use of Build Flag to fasten the Rule execution process by making use of existing technical metadata details wherein the rule query is not rebuilt again during Rule execution.</p> <p>Built Flag status set to “No” indicates that the query statement is formed dynamically retrieving the technical metadata details. If the Build Flag status is set to “Yes” then the relevant metadata details required to form the rule query is stored in database on “Save” of a Rule definition. When this rule is executed, database is accessed to form the rule query based on stored metadata details, thus ensuring performance enhancement during Rule execution.</p>
Optional Parameters	Refers to the set of parameters which would behave as filter criteria for the merge query.

2.9.1.8 Component: RUN DQ RULE

Property	Description
DQ Group Name	Refers to the Data Quality Groups consisting of associated Data Quality Rule definition(s). Select the required DQ Group from the drop-down list.
Rejection Threshold	Specify the percentage of Rejection Threshold (%) limit in numeric value. This refers to the maximum percentage of records that can be rejected in a job. If the percentage of failed records exceeds the Rejection Threshold, the job will fail. If the field is left blank, the default the value is set to 100%.
Additional Parameters	<p>Specify the Additional Parameters as filtering criteria for execution in the pattern Key#Data type#Value; Key#Data type#Value;...etc.</p> <p>Here the Data type of the value should be “V” for Varchar/Char, or “D” for Date with “MM/DD/YYYY” format, or “N” for numeric data. For example, if you want to filter some specific region codes, you can specify the Additional Parameters value as \$REGION_CODE#V#US;\$CREATION_DATE#D#07/06/1983;\$ACCOUNT_BAL#N#10000.50;</p> <p>Note: In case the Additional Parameters are not specified, the default value is fetched from the corresponding table in configuration schema for execution.</p>
Parameters	<p>Comma separated parameters where first value is considered as the threshold percentage, followed by additional parameters which are a combination of three tokens. Example, “90”, “PARAM1”, “D”, “VALUE1”, “PARAM2”, “V”, “VALUE2”.</p> <p>Note: Parameter “Fail if threshold is breached” is defaulted to “Yes” for RRF executions.</p>
Optional Parameter	<p>For DQ Rule execution on Spark, specify EXECUTION_VENUE=Spark in this field. Note that, you should have registered a cluster from DMT <i>Configurations > Register Cluster</i> window with the following details:</p> <ul style="list-style-type: none"> • Name- Enter name of the Hive information domain. • Description- Enter a description for the cluster. • Livy Service URL- Enter the Livy Service URL used to connect to Spark from OFSAA.

2.9.1.9 Component: RUN EXECUTABLE

Field	Description
Executable	<p>Refers to the executable path on the DB Server. The Executable parameter contains the executable name as well as the parameters to the executable. These executable parameters have to be specified as they are specified at a command line. In other words, the Executable parameter is the exact command line required to execute the executable file.</p> <p>The path to the executable has been entered in quotes. Quotes have to be used if the exe name has a space included in it. In other words, the details entered here should look exactly as you would enter it in the command window while calling your executable. The parameter value is case-sensitive. So, ensure that you take care of the spaces, quotes, and case. Also, commas are not allowed while defining the parameter value for executable.</p> <p>To pass parameters like \$RUNID, \$PHID, \$EXEID, \$RUNSK to the RUN EXECUTABLE component, specify RRFOPT=Y or rrfopt=y along with other executable details.</p>
Wait	<p>When the file is being executed you have the choice to either wait till the execution is completed or proceed with the next task.</p> <p>Select Y (Yes) or N (No) from the drop-down list.</p> <ul style="list-style-type: none"> • Y- Select this if you want to wait for the execution to be completed • N- Select this if you wish to proceed. <p>If the task is using FICGEN/RUN EXECUTABLE component and there is no precedence set for this task, then the WAIT should always be set to 'N'.</p>
Batch Parameter	<p>Y- Select Yes if you want to pass the Batch parameters to the shell script file being executed.</p> <ul style="list-style-type: none"> • If Wait is selected as Y and Batch Parameter is selected as Y, following parameters are passed to the executable: NIL <BatchExeRunID> <ComponentId> <Task> <Infodate> <Infodom> <DatstoreType> <IPAddress> • If Wait is selected as N and Batch Parameter is selected as Y, following parameters are passed to the executable: <BatchExeRunID> <ComponentId> <Task> <Infodate> <Infodom> <DatstoreType> <IPAddress> <p>N- Select No if the Batch parameters should not be passed to the shell script.</p>
Optional Parameters	<p>This field will be considered only if you have specified RRFOPT=Y or rrfopt=y in the Executable field.</p> <p>Specify the optional parameters that you want to pass to the executable. For example, \$RUNID, \$PHID, \$EXEID, \$RUNSK.</p>

2.9.1.10 Component: SQLRULE

Field	Description
Folder	Refers to the location where the SQL Rule definition resides. Click the drop-down list box in the Value column to select the desired Folder.
SQL Rule Name	Refers to the defined SQL rule. Click the drop-down list in the Value column to select the SQL Rule.

2.9.1.11 Component: TRANSFORM DATA

Field	Description
Rule Name	Refers to the Data transformation name that was defined in the <i>Post Load Changes</i> window of Data Management Tools framework. Select the rule name from the drop-down list.
Parameter List	<p>Is the list of parameters defined in Data Transformation check in which the parameters must be in the same order as in the definition and must be separated by a comma (","). Irrespective of the data type of the parameter defined in the procedure. The parameter specified through the front-end does not require to be specified within quotes (' ').</p> <p>Note: Commas are used as delimiters for parameter values internally by the ICC Batch component. Ensure that commas are not used in any of the parameter values, that is, "a, b, c" should not be a parameter value in the list of parameter values being passed to the TRANSFORM DATA task. For example, if the parameter values to this task are required to be passed as (val1, val2, (a, b, c), val4), the correct way would be to pass these values as (val1, val2, (a*b*c), val4). You can use any other character as a separator.</p>

2.9.1.12 Component: VARIABLE SHOCK

Field	Description
Variable Shock Code	Refers to the variable shock that has to be processed. This is a system generated code that is assigned at the time of variable shock definition.
Operation	Refers to the operation to be performed. Click the drop-down list in the Value field to select the Operation. The available options are ALL , GENDATAFILES , and GENPRNFILES .
Optional Parameters	Refers to Process ID and the User ID. Click in the text box adjacent to the Optional Parameters field and enter the Process ID and User ID.

2.9.1.13 Component: Workflow Execution

Field	Description
Object ID	Enter an object ID of your choice. This ID will appear as Entity ID in the <i>Process Monitor</i> window.
Workflow	Select the workflow you want to execute from the drop-down list. It displays all the workflows defined in the <i>Process Modeller</i> window.
Optional Parameters	Enter the value you want to pass to the Dynamic Parameters of the Run Task during the execution of the workflow.

