

Scheduler PLSQL JOB Creation
Oracle FLEXCUBE Investor Servicing
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1. Introduction

This document introduces the reader to the procedure to be followed for Scheduler PLSQL.JOB Creation for Oracle FLEXCUBE Investor Servicing.

2. Background

This document is based on the requirement of creating PLSQL Jobs to be executed by Quartz Scheduler.

This document describes the procedure to be followed to accomplish the above.

3. Procedure

Follow the below steps to create PLSQL job.

1. Launch the job maintenance screen STDJOBMT for creation of a PLSQL Job.
2. Please provide the values for the fields. For information regarding individual fields please refer to Installation Docs.

A PLSQL job can be Stateful or Stateless.

Stateful Job

If the job is configured to be STATEFUL then missed instances will be queued up so that scheduler would start executing once the long running job ends. It means, there will be no parallel execution of the procedure.

To make a executing class as Stateful, please add two annotations to the job class.

- @PersistJobDataAfterExecution
- @DisallowConcurrentExecution

Stateless Job

If the job is configured as STATELESS, threads can be run in parallel and can execute the same procedure.

If the job is configured as stateless, the value of field Max Number Instances will denote the number of threads that can be executed in parallel .If the job is configured as stateful, then the above value will denote the number of missed instances that will be queued up so that quartz scheduler would start executing them once a long running job ends. This field specifies the number of such job instances that needs to be queued up.

The class defined in the class field has to be provided a fully qualified name.



Note the following:

- For every PLSQL job, the executing class is FCPLSQLJobInvoker.java, which is configured as stateless.
- Job params can be added to a particular PLSQL job in this screen as shown above which are passed to the procedure maintained.

4. Example

1. Scheduling EOD (End of Day)

Suppose we have created a new PLSQL job for EOD activity of FMG. Here it is a PLSQL job, where the procedure to be executed is pkgfmgEODBOD.spFmgEODBODScheduler

Procedure Parameters need to be provided in Parameter Details.

Pre-EOD Event [BEPREEOD] is maintained to initiate End of Day.

The screenshot displays the 'Job Maintenance' form, which is divided into three main sections: 'Job Description', 'Job Details', and 'Parameter Details'.

Job Description: This section includes fields for 'Job Code *', 'Job Description', 'Job Group', 'Job Type' (a dropdown menu), 'Max Number Instances *', 'Scheduler', 'SchedulerFactory', 'Trigger Type' (a dropdown menu), 'Scheduler Type' (a dropdown menu), 'Priority' (a dropdown menu), and 'Message Queue'. A 'Validate' button is located at the bottom of this section.

Job Details: This section includes fields for 'Cron Expression', 'Class Or Procedure', 'No of Submissions', 'Interval In Seconds', 'Trigger Listener', 'Active' (a checkbox), 'Ds Name', 'Logging Required' (a checkbox), 'Veto Blocked Trigger' (a checkbox), and 'Startup Mode' (a dropdown menu).

Parameter Details: This section is a table with columns for 'Parameter Name', 'Data Type', and 'Parameter Value'. It currently shows one row with a checkbox in the first column. The table has a 'Go' button and a '1 Of 1' indicator.

Footer: The footer contains fields for 'Maker', 'Checker', 'Date Time:', 'Mod No', 'Record Status', 'Authorization', and 'Status'. A 'Cancel' button is located on the right side.

2. Scheduling BOD (Beginning of Day)

Suppose we have created a new PLSQL job for BOD activity of FMG. Here it is a PLSQL job, where the procedure to be executed is pkgfmgEODBOD.spFmgEODBODScheduler.

Parameters for this procedure need to be maintained in Parameter Details.

Example shows End of Day event [BE00003] to initiate Beginning Of Day.

The screenshot displays the 'Job Maintenance' window, which is divided into two main sections: 'Job Details' and 'Parameter Details'.

Job Details Section:

- Job Description:** Includes fields for Job Code (marked with a red asterisk), Job Description, Job Group, Job Type (dropdown), Max Number Instances (marked with a red asterisk), Scheduler, SchedulerFactory, Trigger Type (dropdown), Scheduler Type (dropdown), Priority (dropdown), and Message Queue. A 'Validate' button is located below these fields.
- Job Details:** Includes fields for Cron Expression, Class Or Procedure, No of Submissions, Interval In Seconds, Trigger Listener, Active checkbox, Ds Name, Logging Required checkbox, Veto Blocked Trigger checkbox, and Startup Mode (dropdown).

Parameter Details Section:

This section features a table with the following columns: Parameter Name, Data Type, and Parameter Value. The table is currently empty. Above the table, there are navigation controls including '1 Of 1', 'Go', and expand/collapse icons.

Footer:

The footer contains fields for Maker, Checker, Date Time, Mod No, Record Status, Authorization, and Status. A 'Cancel' button is located on the right side of the footer.



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