

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' window, which is divided into several sections for configuring a job.

Job Description:

- Job Code *
- Job Description
- Job Group
- Job Type
- Max Number Instances *
- Scheduler
- SchedulerFactory
- Trigger Type
- Scheduler Type
- Priority
- Message Queue
- Validate button

Job Details:

- Cron Expression
- Class Or Procedure
- No of Submissions
- Interval In Seconds
- Trigger Listener
- Active checkbox
- Da Name
- Logging Required checkbox
- Veto Blocked Trigger checkbox
- Startup Mode

Parameter Details:

A table with the following columns: Parameter Name, Data Type, Parameter Value. The table is currently empty.

Footer:

- Maker
- Checker
- Date Time:
- Date Time:
- Mod No
- Record Status
- Authorization Status
- Cancel button

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 Description' and 'Job Details'.

Job Description:

- Job Code ***: A text field.
- Job Description**: A text field.
- Job Group**: A text field.
- Job Type**: A dropdown menu.
- Max Number Instances ***: A text field.
- Scheduler**: A dropdown menu.
- SchedulerFactory**: A text field.
- Trigger Type**: A dropdown menu.
- Scheduler Type**: A dropdown menu.
- Priority**: A dropdown menu.
- Message Queue**: A text field.
- Validate**: A button.

Job Details:

- Cron Expression**: A text field.
- Class Or Procedure**: A text field.
- No of Submissions**: A text field.
- Interval In Seconds**: A text field.
- Trigger Listener**: A text field.
- Active**: A checkbox.
- Da Name**: A text field.
- Logging Required**: A checkbox.
- Veto Blocked Trigger**: A checkbox.
- Startup Mode**: A dropdown menu.

Parameter Details:

A table with the following columns: Parameter Name, Data Type, Parameter Value.

Parameter Name	Data Type	Parameter Value
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Footer:

- Maker**: A text field.
- Checker**: A text field.
- Date Time:**: A text field.
- Mod No**: A text field.
- Record Status**: A text field.
- Authorization Status**: A text field.
- Cancel**: A button.



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Oracle Financial Services Software Limited
Oracle Park
Off Western Express Highway
Goregaon (East)
Mumbai, Maharashtra 400 063
India

Worldwide Inquiries:
Phone: +91 22 6718 3000
Fax: +91 22 6718 3001
www.oracle.com/financialservices/

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