

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 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 shows the 'Job Maintenance' window with the following details:

Job Description

- Job Code: EOD_FMGHKGDISITE
- Job Description: EOD_FMGHKGDISITE
- Job Group: INTERFACE
- Job Type: PL SQL
- Max Number Instances: 2
- Scheduler: SchedulerFactory
- Trigger Type: Cron
- Scheduler Type: Quartz
- Priority: High
- Message Queue:

Job Details

- Cron Expression: 0 0/5 *** ?
- Class or Procedure: pkgFmgEODBOD.spFmgEODBODScheduler
- Number Of Submissions:
- Interval In Seconds:
- Trigger Listener:
- Active: ☐
- Ds Name: jdbc/R2DISITE
- Logging Required: ☒
- Veto Blocked Trigger: ☐
- Startup Mode: Manual

Parameter Details

Parameter Name	Data Type	Parameter Value
<input checked="" type="checkbox"/> EODBODFLAG	Varchar	E
<input type="checkbox"/> EVENTCODE	Varchar	BEPREEOD
<input type="checkbox"/> JOBCODE	Varchar	EOD_FMGHKGDISITE
<input type="checkbox"/> MODULEID	Varchar	FMGHKGDISITE
<input type="checkbox"/> USERID	Varchar	222248A03

Input by 407208AA01 DateTime 10/08/2015 11:50:21 Mod No 6 Open Open
Authorized 412130A03 DateTime 10/08/2015 11:51:21 Authorized Authorized **Exit**

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 with two tabs: 'Job Description' and 'Job Details'. The 'Job Description' tab is active, showing the following fields:

- Job Code: BOD_FMGHKGDISTE
- Job Description: BOD_FMGHKGDISTE
- Job Group: INTERFACE
- Job Type: PLSQL
- Max Number Instances: 2
- Scheduler: SchedulerFactory
- Trigger Type: Cron
- Scheduler Type: Quartz
- Priority: High
- Message Queue: (empty)

The 'Job Details' tab is also visible, showing the following fields:

- Cron Expression: 0 0/5 *** ?
- Class or Procedure: pkgfmgEODBOD.spFmgEODBODScheduler
- Number Of Submissions: (empty)
- Interval In Seconds: (empty)
- Trigger Listener: (empty)
- Active: ☐
- Ds Name: jdbc/R2DISTE
- Logging Required: ☒
- Veto Blocked Trigger: ☐
- Startup Mode: Manual

Below the job details is the 'Parameter Details' section, which contains a table with the following data:

Parameter Name	Data Type	Parameter Value
EODBODFLAG	Varchar	B
EVENTCODE	Varchar	BE00003
JOB CODE	Varchar	BOD_FMGHKGDISTE
MODULEID	Varchar	FMGHKGDISTE
USERID	Varchar	222248A03

The bottom status bar shows the following information:

- Input by: 407208AA01
- DateTime: 10/08/2015 11:50:07
- Mod No: 6
- Open Open
- Authorized 412130A03 by
- DateTime: 10/08/2015 11:51:16
- Authorized Authorized
- Exit button



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