Scheduler PLSQL Job Creation Oracle FLEXCUBE Universal Banking Release 14.7.2.0.0 Part No. F87755-01 [November] [2023]



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## 1. Introduction

This document introduces the reader to the procedure to be followed for Scheduler PLSQL.JOB Creation for FLEXCUBE Universal Banking Solutions.



# 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.

New 🟳 Enter Query				
Job Description		Job Details		
Job Code *		Cron Expression	P	
Job Description		Class Or Procedure		
Job Group	Q	No of Submissions		
Job Type		Interval in Seconds		
Max Number Instances *		Trigger Listener		
Scheduler	SchedulerFactory	Active		
Trigger Type		Ds Name		
Scheduler Type		Logging Required		
Priority		Veto Blocked Trigger		
Marcage Ouene		Startup Mode		

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 proceure.

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

- @PersistJobDataAfterExecution
- @DisallowConcurrentExecution

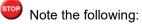
### **Stateless Job**

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 willdenote 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.





- 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 .

#### Example

Suppose we have created a new ITSPNDARC PLSQL job for Spend Batch Archival. Here it is a PLSQL job, where the procedure to be executed is itpks\_spend\_batch.pr\_spend\_archival.

New 🟳 Enter Query			
Job Description		Job Details	
Job Code *		Cron Expression	
Job Description		Class Or Procedure	
Job Group	Q	No of Submissions	
Job Type		Interval In Seconds	
Max Number Instances *		Trigger Listener	
Scheduler	SchedulerFactory	Active	
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