

Scheduler PLSQL JOB Creation  
Oracle Banking ELCM  
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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.

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## 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.

The screenshot shows the 'Job Maintenance' window with the following fields and values:

Field	Value
Job Code *	ITSPNDARC
Job Description	Spend Batch Archival
Job Group	PLSQL
Job Type	Pl sql
Max Number Instances *	1
Scheduler	SchedulerFactory
Trigger Type	Simple
Scheduler Type	Quartz
Priority	Normal
Message Queue	
Cron Expression	
Class Or Procedure	tpks_spend_batch.pr
No of Submissions	-1
Interval In Seconds	864000
Trigger Listener	
Active	<input type="checkbox"/>
Ds Name	
Logging Required	<input type="checkbox"/>
Veto Blocked Trigger	<input type="checkbox"/>
Startup Mode	Manual

**Parameter Details**

Parameter Name	Data Type	Parameter Value
NAME	Varchar	OFSS

At the bottom of the window, there are fields for 'Maker', 'Checker', 'Mod No', 'Date Time', 'Record Status', and 'Authorization Status'. A 'Cancel' button is located in the bottom right corner.

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 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 .

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.

**Job Maintenance**

Save

**Job Description**

Job Code \* ITSPNDARC  
 Job Description Spend Batch Archival  
 Job Group PLSQL  
 Job Type Pl sql  
 Max Number Instances \* 1  
 Scheduler SchedulerFactory  
 Trigger Type Simple  
 Scheduler Type Quartz  
 Priority Normal  
 Message Queue  
 Validate

**Job Details**

Cron Expression  
 Class Or Procedure tpks\_spend\_batch.pr\_  
 No of Submissions -1  
 Interval In Seconds 864000  
 Trigger Listener  
 Active  
 Ds Name  
 Logging Required  
 Veto Blocked Trigger  
 Startup Mode Manual

**Parameter Details**

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Parameter Name	Data Type	Parameter Value
NAME	Varchar	OFSS

Maker Date Time:  
 Checker Date Time:  
 Mod No Record Status  
 Authorization Status

Cancel



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