

Scheduler PLSQL JOB Creation  
Oracle FLEXCUBE Universal Banking  
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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:

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

Parameter Details:

Parameter Name	Data Type	Parameter Value
NAME	Varchar	OFSS

Footer fields: Maker, Checker, Mod No, Date Time, Record Status, Authorization Status, and a Cancel button.

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 .

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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