

Scheduler PLSQL JOB Creation
Oracle FLEXCUBE Investor Servicing
Release 14.5.3.0.0
[February] [2022]



Table of Contents

1. INTRODUCTION 1-1

2. BACKGROUND..... 2-1

3. PROCEDURE..... 3-1

4. EXAMPLE2

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.

- Save**: A button at the top left.
- Job Description**: Fields for Job Code (marked with a red asterisk), Job Description, Job Group, Job Type (dropdown), Max Number Instances (marked with a red asterisk), Scheduler, SchedulerFactory, Trigger Type (dropdown), Scheduler Type (dropdown), Priority (dropdown), and Message Queue. A 'Validate' button is located below these fields.
- Job Details**: Fields for Cron Expression, Class Or Procedure, No of Submissions, Interval In Seconds, Trigger Listener, Active checkbox, Ds Name, Logging Required checkbox, Veto Blocked Trigger checkbox, and Startup Mode (dropdown).
- Parameter Details**: A table with columns for Parameter Name, Data Type, and Parameter Value. The table is currently empty.
- Footer**: Fields for Maker, Checker, Date Time, Mod No, Record Status, Authorization, and Status. A 'Cancel' button is on the right.

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

Job Details:

- Cron Expression**: A text input field.
- Class Or Procedure**: A text input field.
- No of Submissions**: A text input field.
- Interval In Seconds**: A text input field.
- Trigger Listener**: A text input field.
- Active**: A checkbox.
- Ds Name**: A text input 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, and Parameter Value. The table is currently empty.

Footer:

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



Scheduler PLSQL Job Creation
[February] [2022]
Version 14.5.3.0.0

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/

Copyright © [2007], [2022], Oracle and/or its affiliates.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

U.S. GOVERNMENT END USERS: Oracle programs (including any operating system, integrated software, any programs embedded, installed or activated on delivered hardware, and modifications of such programs) and Oracle computer documentation or other Oracle data delivered to or accessed by U.S. Government end users are "commercial computer software" or "commercial computer software documentation" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, reproduction, duplication, release, display, disclosure, modification, preparation of derivative works, and/or adaptation of i) Oracle programs (including any operating system, integrated software, any programs embedded, installed or activated on delivered hardware, and modifications of such programs), ii) Oracle computer documentation and/or iii) other Oracle data, is subject to the rights and limitations specified in the license contained in the applicable contract. The terms governing the U.S. Government's use of Oracle cloud services are defined by the applicable contract for such services. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate failsafe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

This software or hardware and documentation may provide access to or information on content, products and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services.

