

Scheduler JAVA JOB Creation
Oracle FLEXCUBE Investor Servicing
Release 12.1.0.0.0
[October] [2015]



Table of Contents

1.	INTRODUCTION	1-3
2.	BACKGROUND.....	2-1
3.	EXAMPLE	3-1

1. Introduction

This document introduces the reader to the procedure to be followed for Scheduler JAVA JOB Creation for Oracle FLEXCUBE Investor Servicing.

2. Background

This document is based on the requirement of creating JAVA Jobs to be executed by Quartz Scheduler.

This document describes the procedure to be followed to accomplish the above.

3. Example

This section describes job creation:

1. Launch the job maintenance screen STDJOBMT for creation of a Job. User can maintain Interface, Reports and PL SQL Jobs.

Interface Job definition

Event Based:

For Interface Job maintenance, user has to maintain `com.ofss.scheduler.quartz.fcis.FCISImpExpSchExecutor` class.

For Event Based Job Scheduling, EVENTCODE need to be maintained in Parameters. Valid Event Codes are available in Eventstbl.

The screenshot displays the 'Job Maintenance' window with the following details:

Job Description

- Job Code: IF20142200000210
- Job Description: GoConfExtract
- Job Group: INTERFACE
- Job Type: Java
- Max Number Instances: 1
- Scheduler: SchedulerFactory
- Trigger Type: Cron
- Scheduler Type: Quartz
- Priority: Normal
- Message Queue:

Job Details

- Cron Expression: 20 **** ?
- Class or Procedure: com.ofss.scheduler.quartz.fcis.FCISImpExpSchExecutor
- Number Of Submissions:
- Interval In Seconds:
- Trigger Listener: ☒ Active
- Ds Name: jdbc/R
- Logging Required: ☒
- Veto Blocked Trigger: ☐
- Startup Mode: Auto

Parameter Details

Parameter Name	Data Type	Parameter Value
<input checked="" type="checkbox"/> ACTION	Varchar	N
<input type="checkbox"/> EVENTCODE	Varchar	BE00008
<input type="checkbox"/> EXECUTIONID	Varchar	
<input type="checkbox"/> INTERFACEID	Varchar	IF20142200000210
<input type="checkbox"/> KEYSTRING	Varchar	
<input type="checkbox"/> MODULEID	Varchar	FMGHKGDISTE

Input by 412130A03 DateTime 08/04/2015 17:55:48 Mod No 6 Open Open
Authorized 412130A04 by DateTime 08/04/2015 18:05:16 Authorized Authorized Exit

Time Based :

To maintain time based job, we have to maintain cron expression.

Job Maintenance

New

Copy

Close

Unlock

Print

Enter Query

Job Description

Job Details

Job Code *

SI_UPLOAD_DISTE

Cron Expression

40 **** ?

Job Description

SI Upload Diste TimeBased

Class or Procedure

com.ofss.scheduler.quartz.fcis.FCISImpExpSchExecutor

Job Group

INTERFACE

Number Of Submissions

Job Type

Java

Interval In Seconds

Max Number Instances *

2

Trigger Listener

Scheduler

SchedulerFactory

Trigger Type

Cron

Scheduler Type

Quartz

Priority

High

Message Queue

Active

☒

Ds Name

jdbc/R2DISTE

Logging Required

☒

Veto Blocked Trigger

☐

Startup Mode

Auto

Parameter Details

1 of 1

Go

<input type="checkbox"/>	Parameter Name	Data Type	Parameter Value
<input checked="" type="checkbox"/>	ACTION	Varchar	N
<input type="checkbox"/>	EXECUTIONID	Varchar	
<input type="checkbox"/>	INTERFACEID	Varchar	IF20150020000005
<input type="checkbox"/>	KEYSTRING	Varchar	
<input type="checkbox"/>	MODULEID	Varchar	FMGHKGDISTE

Input by 412130A03

DateTime 08/04/2015 17:58:46

Mod No 5

Open Open

Authorized 407204A02

DateTime 08/04/2015 18:06:36

Authorized Authorized

Exit

TimeZone Based

For Timezone based job scheduling, valid timezone need to be maintained in parameters. Timezone parameter should have standard Quarz supported timezone value.

Job Maintenance

New Copy Close Unlock Print Enter Query

Job Description **Job Details**

Job Code * ENTITYUPLD_DISTE_HKC
 Job Description Entity Upload Dist TimeZone
 Job Group INTERFACE
 Job Type Java
 Max Number Instances * 2
 Scheduler SchedulerFactory
 Trigger Type Cron
 Scheduler Type Quartz
 Priority High
 Message Queue

Cron Expression 0 0/15 11-23 * * ?
 Class or Procedure com.ofss.scheduler.quartz.fcis.FCISImpExpSchExecutor
 Number Of Submissions
 Interval In Seconds
 Trigger Listener
☒ Active
 Ds Name jdbc/R2DISTE
☒ Logging Required
☐ Veto Blocked Trigger
 Startup Mode Auto

Parameter Details

1 of 1 Go

Parameter Name	Data Type	Parameter Value
<input checked="" type="checkbox"/> ACTION	Varchar	N
<input type="checkbox"/> EXECUTIONID	Varchar	
<input type="checkbox"/> INTERFACEID	Varchar	IF20150020000022
<input type="checkbox"/> KEYSTRING	Varchar	
<input type="checkbox"/> MODULEID	Varchar	FMGHKGDISTE
<input type="checkbox"/> TIMEZONE	Varchar	Asia/Hong_Kong

Input by 412130A03 DateTime 08/04/2015 17:59:08 Mod No 3 Open Open
 Authorized 407204A02 DateTime 08/04/2015 18:07:15 Authorized Authorized Exit

REPORT Job definition

To schedule BIP report generation, user has to maintain com.ofss.scheduler.quartz.fcis.FCISReportSpoolExecutor class

Job Maintenance

New Copy Close Unlock Print Enter Query

Job Description **Job Details**

Job Code * EODUHBALSTMTAMC
 Job Description Unitholder Balance Statement AMCB
 Job Group INTERFACE
 Job Type Java
 Max Number Instances * 2
 Scheduler SchedulerFactory
 Trigger Type Cron
 Scheduler Type Quartz
 Priority High
 Message Queue

Cron Expression 0 0/5 * * * ?
 Class or Procedure com.ofss.scheduler.quartz.fcis.FCISReportSpoolExecutor
 Number Of Submissions
 Interval In Seconds
 Trigger Listener
☒ Active
 Ds Name jdbc/R2AMCB
☒ Logging Required
☐ Veto Blocked Trigger
 Startup Mode Auto

Parameter Details

1 of 1 Go

Parameter Name	Data Type	Parameter Value
<input checked="" type="checkbox"/> ACTION	Varchar	N
<input type="checkbox"/> EVENTCODE	Varchar	BE00003
<input type="checkbox"/> EXECUTIONID	Varchar	BE00003
<input type="checkbox"/> KEYSTRING	Varchar	
<input type="checkbox"/> MAKER_ID	Varchar	22248A02
<input type="checkbox"/> MODULEID	Varchar	FMGRSAAMCB
<input type="checkbox"/> TASKID	Varchar	EODUHBALSTMT

Input by 412130A03 DateTime 08/04/2015 18:01:43 Mod No 3 Open Open
 Authorized 412702AA01 DateTime 08/04/2015 18:09:10 Authorized Authorized Exit

User has to maintain TASKID parameter to specify the Report Parameters. UTDTASK is the screen to maintain Report Parameters.

Task Maintenance Detail

Close
Unlock
Print
Enter Query

Task Details

Task ID * EODUHDALSTMT

Description Unitholder Balance Statement

Report Burst Details

Table Name

Condition

Burst Field

Burst Parameter

Condition

Parameters

Input by SUPER

DateTime 02/29/2000

Mod No 0

Open Open

Authorized by SYSTEM

DateTime 12/30/1999

Authorized Authorized

Ok

Exit

Task Parameters

Task Parameters

1 of 1
Go

Parameter Number	Parameter Name	Standard	Parameter Type	Parameter Value	In or Out
<input checked="" type="checkbox"/>	1 SecurityContext	Yes	7		IN
<input checked="" type="checkbox"/>	2 ReportName	No	51	UHAccBalanceStmt	IN
<input checked="" type="checkbox"/>	3 JobID	Yes	17		IN
<input checked="" type="checkbox"/>	4 ExecutionID	Yes	18		IN
<input checked="" type="checkbox"/>	5 LanguageCode	No	51	ENG	IN
<input checked="" type="checkbox"/>	6 FundID	No	51	(ALL)	IN
<input checked="" type="checkbox"/>	7 FundIdentificationNumber	No	51		IN

Ok
Exit

A Java 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 java class.

To make a 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 java class.

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.



Job params can be added to a particular java job in this screen as shown above.



Scheduler JAVA JOB Creation
[October] [2015]
Version 12.1.0.0.0

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], [2015], Oracle and/or its affiliates. All rights reserved.

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 installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. 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.

