

# Oracle® Database

## Java Job Creation Scheduler



Release 14.7.5.0.0

G24972-01

September 2024

ORACLE®

Oracle Database Java Job Creation Scheduler, Release 14.7.5.0.0

G24972-01

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## Preface

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### 1.1 Purpose

This guide is designed to help the user to quickly get acquainted with the Customer Standard Instructions maintenance process.

### 1.2 Audience

This guide is intended for the central administrator of the Bank who controls the system and application parameters and ensures smooth functionality and flexibility of the banking application.

### 1.3 Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <https://www.oracle.com/corporate/accessibility/>.

#### Access to Oracle Support

Oracle customer access to and use of Oracle support services will be pursuant to the terms and conditions specified in their Oracle order for the applicable services.

### 1.4 Conventions

The following text conventions are used in this document:

**Table 1-1 Conventions**

Convention	Meaning
<b>boldface</b>	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.

Table 1-1 (Cont.) Conventions

Convention	Meaning
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
<code>monospace</code>	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

## 1.5 Critical Patches

Oracle advises customers to get all their security vulnerability information from the Oracle Critical Patch Update Advisory, which is available at [Critical Patches](#), [Security Alerts and Bulletins](#). All critical patches should be applied in a timely manner to ensure effective security, as strongly recommended by [Oracle Software Security Assurance](#).

## 1.6 Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

## 1.7 Basic Actions

Table 1-2 Basic Actions

Action	Description
<b>Approve</b>	Used to approve the initiated report. This button is displayed, once the user click <b>Authorize</b> .
<b>Audit</b>	Used to view the maker details, checker details, and report status.
<b>Authorize</b>	Used to authorize the report created. A maker of the screen is not allowed to authorize the report. Only a checker can authorize a report, created by a maker.
<b>Close</b>	Used to close a record. This action is available only when a record is created.
<b>Confirm</b>	Used to confirm the performed action.
<b>Cancel</b>	Used to cancel the performed action.
<b>Compare</b>	Used to view the comparison through the field values of old record and the current record. This button is displayed in the widget, once the user click <b>Authorize</b> .
<b>Collapse All</b>	Used to hide the details in the sections. This button is displayed, once the user click <b>Compare</b> .
<b>Expand All</b>	Used to expand and view all the details in the sections. This button is displayed, once the user click <b>Compare</b> .

Table 1-2 (Cont.) Basic Actions

Action	Description
<b>New</b>	Used to add a new record. When the user click <b>New</b> , the system displays a new record enabling to specify the required data.
<b>OK</b>	Used to confirm the details in the screen.
<b>Save</b>	Used to save the details entered or selected in the screen.
<b>View</b>	Used to view the report details in a particular modification stage. This button is displayed in the widget, once the user click <b>Authorize</b> .
<b>View Difference only</b>	Used to view a comparison through the field element values of old record and the current record, which has undergone changes. This button is displayed, once the user click <b>Compare</b> .
<b>Unlock</b>	Used to update the details of an existing record. System displays an existing record in editable mode.

## 1.8 Prerequisite

Specify the **User ID** and **Password**, and login to **Home** screen.

## 1.9 Screenshot Disclaimer

Personal information used in the interface or documents is dummy and does not exist in the real world. It is only for reference purposes.

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## Introduction

This document describes the procedure to be followed for Scheduler JAVA JOB creation for Oracle FLEXCUBE Universal Banking solutions.

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## 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 creation of the JAVA jobs.



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## Procedure

This topic explains systematic instructions to create JAVA jobs by Quartz Scheduler.

Specify **User ID** and **Password** and login to the **Homescreen**.

1. On **Homescreen**, type **STDJOBMT** in the text box, and click **Next**.

The **Job Maintenance** screen displays.

### Figure 4-1 Job Maintenance

2. On the **Job Maintenance** screen, specify the fields.

For information on fields and their description, refer to installation documents.

A Java job can be **Stateful Job** or **Stateless Job**.

The following table describes the Java jobs -

**Table 4-1 Java Jobs**

Java Jobs	Description
<b>Stateful Job</b>	If the job is configured to be Stateful then missed instances will be queued up so that the 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 Stateful, add two annotations to the job class. <ul style="list-style-type: none"><li>• @PersistJobDataAfterExecution</li><li>• @DisallowConcurrentExecution</li></ul>
<b>Stateless Job</b>	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 field <b>Max Number Instances</b> denotes the number of threads that can be executed in parallel. If the job is configured as Stateful, then the above value denotes the number of missed instances that will be queued up so that the quartz scheduler would start executing them once a long-running job ends. This field specifies the number of such job instances that need to be queued up.

The class defined in the class field has to be provided with a fully qualified name.

#### **Note:**

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

For example,

Suppose you have created a new FTP\_COPY job, to copy ftp files from one location to another. It is a java job, where the class to be executed is **FtpCopy.java**. You have provided the fully qualified class name as **com.ofss.scheduler.quartz.ftp. FtpCopy**.

The physical location of the java file is

INFRA\FCJNeoWeb\Javasource\com\ofss\scheduler\quartz\ftp\FtpCopy.java.

In this class, you have to override the execute method of the Job class to provide the implementation logic, which is executed when the quartz scheduler executes the class. The execute method format is as below.

Public void execute (JobExecutionContext context) throws JobExecutionException {}

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## Example

This topic provides the information of examples.

Suppose you have created a new FTP\_COPY job, to copy ftp files from one location to another. It is a java job, where the class to be executed is FtpCopy.java.

You have provided the fully qualified class name as com.ofss.scheduler.quartz.ftp. FtpCopy.

The physical location of the java file is  
INFRA\FCJNeoWeb\Javasource\com\ofss\scheduler\quartz\ftp\FtpCopy.java.

In this class, you have to override the execute method of Job class to provide the implementation logic, which is executed when the quartz scheduler executes the class. The execute method format is as below.

```
public void execute (JobExecutionContext context) throws JobExecutionException {}
```

The sample java file is attached: