

Oracle® FLEXCUBE Investor Servicing Scheduler JAVA JOB Creation



Release 14.7.6.0.0
G30403-01
April 2025

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Preface

Oracle FLEXCUBE Investor Servicing is a comprehensive mutual funds automation software from Oracle® Financial Servicing Software Ltd.©.

You can use the system to achieve optimum automation of all your mutual fund investor servicing processes, as it provides guidelines for specific tasks, descriptions of various features and processes, and general information.

This topic contains the following sub-topics:

- [Purpose](#)
- [Audience](#)
- [Documentation Accessibility](#)
- [Critical Patches](#)
- [Diversity and Inclusion](#)
- [Conventions](#)
- [Screenshot Disclaimer](#)
- [Acronyms and Abbreviations](#)

Purpose

This manual is designed to help acquaint you with the installation of **Oracle FLEXCUBE Investor Servicing** application.

Audience

This manual is intended for the following User/User Roles:

Table 1 Users and Roles

Users	Roles
Implementation team	Implementation of Oracle FLEXCUBE Investor Servicing
Presales team	Install Oracle FLEXCUBE Investor Servicing for demo purpose
Bank personnel	Who installs Oracle FLEXCUBE Investor Servicing

Documentation Accessibility

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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.

Conventions

The following text conventions are used in this document:

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

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.

Acronyms and Abbreviations

The list of the acronyms and abbreviations used are as follows:

Table 2 Acronyms and Abbreviations

Abbreviation	Description
FCIS	Oracle FLEXCUBE Investor Servicing
OEM	Oracle Enterprise Manager

Table 2 (Cont.) Acronyms and Abbreviations

Abbreviation	Description
EMS	Electronic Messaging Service
EJB	Enterprise Java Bean
MDB	Message Driven Beans

1

Scheduler JAVA Job Creation

This topic provides the instructions to create Scheduler JAVA Job.

This topic explains the procedure to be followed for Scheduler JAVA Job creation for **Oracle FLEXCUBE Investor Servicing**.

2

Background

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

This topic describes the procedure to be followed to accomplish the Scheduler JAVA JOB creation.

3

Example

This topic provides the instructions to create a job maintenance.

To create a job, user need to start the STDJOBMT and user can maintain Interface, Reports and PL SQL jobs.

This topic consists the following sub-topics:

- [Interface Job definition](#)
This topic provides the instructions for interface job definition.
- [Report Job Maintenance](#)
This topic provides information on report job maintenance.
- [Task Maintenance Detail](#)
This topic provides information on task maintenance detail.

3.1 Interface Job definition

This topic provides the instructions for interface job definition.

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

Figure 3-1 Job Maintenance

The screenshot displays the 'Job Maintenance' application window. The window is divided into two main sections: 'Job Description' and 'Job Details'. The 'Job Description' section includes fields for 'Job Code *', 'Job Description', 'Job Group', 'Job Type' (a dropdown menu), 'Max Number Instances *', 'Scheduler' (set to 'SchedulerFactory'), 'Trigger Type' (a dropdown menu), 'Scheduler Type' (a dropdown menu), 'Priority' (a dropdown menu), and 'Message Queue'. A 'Validate' button is located below these fields. The 'Job Details' section includes fields for 'Cron Expression', 'Class Or Procedure', 'No of Submissions', 'Interval In Seconds', 'Trigger Listener' (with an 'Active' checkbox), 'Ds Name', 'Logging Required' (checkbox), 'Veto Blocked Trigger' (checkbox), and 'Startup Mode' (a dropdown menu). Below these sections is a 'Parameter Details' table with columns for 'Parameter Name', 'Data Type', and 'Parameter Value'. The table is currently empty. At the bottom of the window, there is a status bar with fields for 'Maker', 'Checker', 'Date Time:', 'Mod No', 'Record Status', 'Authorization Status', and a 'Cancel' button.

- **Event Based**
For Event based job scheduling, EVENTCODE need to be maintained in Parameters. Valid Event Codes are available in Eventstbl.
- **Time Based**
To maintain Time based job, we have to maintain cron expression.
- **Timezone Based**
For Timezone based job scheduling, valid timezone need to be maintained in parameters. Timezone parameter should have standard Quartz supported timezone value.

3.2 Report Job Maintenance

This topic provides information on report job maintenance.

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

3.3 Task Maintenance Detail

This topic provides information on task maintenance detail.

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

Figure 3-2 Task Maintenance Detail

Task Maintenance Detail

Execute Query

Task Details

Task ID *

Description

Report Burst Details

Table Name

Condition

Condition

Burst Field

Burst Parameter

Parameters

Input by	DateTime	Mod No	Open
Authorized by	DateTime		Authorized

Ok Cancel

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.

 Note:

Job params can be added to a particular java job in **Task Maintenance Detail** screen.