

Oracle® FLEXCUBE Investor Servicing Scheduler JAVA JOB Creation



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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.
monospace	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' window, which is divided into several sections. At the top, there is a 'Save' button. Below this, the window is split into two main columns: 'Job Description' on the left and 'Job Details' on the right. The 'Job Description' column contains 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 the 'Message Queue' field. The 'Job Details' column contains fields for 'Cron Expression', 'Class Or Procedure', 'No of Submissions', 'Interval In Seconds', 'Trigger Listener', 'Ds Name', 'Logging Required' (a checkbox), 'Veto Blocked Trigger' (a checkbox), and 'Startup Mode' (a dropdown menu). Below these columns is a 'Parameter Details' section, which includes a 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', and 'Status'. A 'Cancel' button is located on the far right of the status bar.

- **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

The screenshot shows a web-based form titled "Task Maintenance Detail". It has a tab labeled "Execute Query". The form is divided into three main sections:

- Task Details:** Contains a "Task ID *" field with a search icon and a "Description" field.
- Report Burst Details:** Contains "Table Name", "Condition" (with a "Condition" button), "Burst Field", and "Burst Parameter" fields.
- Parameters:** A table with columns: "Input by", "DateTime", "Mod No", "Open", "Authorized by", "DateTime", "Authorized", and "Open".

At the bottom right of the form are "Ok" and "Cancel" buttons.

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.