

Oracle® FLEXCUBE Investor Servicing EMS Interface User Guide



Release 14.7.6.0.0
G30717-01
April 2025

ORACLE®

Copyright © 2007, 2025, Oracle and/or its affiliates.

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.

If this is software, software documentation, data (as defined in the Federal Acquisition Regulation), or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

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," "commercial computer software documentation," or "limited rights data" 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 fail-safe, 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.

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

Intel and Intel Inside are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Epyc, and the AMD logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about 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 unless otherwise set forth in an applicable agreement between you and Oracle. 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, except as set forth in an applicable agreement between you and Oracle.

Contents

Preface

Purpose	iv
Audience	iv
Documentation Accessibility	iv
Critical Patches	v
Diversity and Inclusion	v
Conventions	v
Screenshot Disclaimer	v
Acronyms and Abbreviations	v

1 The Oracle FLEXCUBE EMS Interface

1.1	Brief Description of the Process	1-1
1.1.1	For Incoming Messages	1-1
1.1.2	For Outgoing Messages	1-2
1.2	EMS Details Maintenance	1-2
1.2.1	Maintain Message Media	1-2
1.2.2	Message Media Control	1-4
1.2.3	Maintain Folder Structure for Delivery Mode Folder and Delivery Mode Queue	1-5
1.2.4	Specify Parameters and Values for fcubs.properties File	1-6

Index

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 interface between Oracle FLEXCUBE and the other systems within your bank.

This manual provides you extensive explanations about the various maintenances required for the smooth exchange of data between Oracle FLEXCUBE and the applicable systems through the interface. It also gives you an insight into the processes involved in the actual exchange of data.

Audience

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

Table 1 Users and Roles

Users	Roles
Back office data entry Clerks	Input functions for maintenance related to the interface.
Back office Managers/Officers	Authorization functions.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

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.

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](#).

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

1

The Oracle FLEXCUBE EMS Interface

The EMS or the Electronic Messaging Service is a messaging interface between external systems and Oracle FLEXCUBE. This interface is implemented with the help of two windows services, one each for In and Out processing. This interface enables a connection to be established between Oracle FLEXCUBE and the external systems network resource for sending and receiving information.

The in-service connects to the external system resource (Windows machine, UNIX machine or MSMQ server) and transfers the data to the local windows machine, where the message is processed and uploaded to Oracle FLEXCUBE.

The out-service polls on an Oracle FLEXCUBE out table. As soon as a message is generated in the out table, it is picked up, formatted if required (for example, as a MS-Word document) and delivered to the external system through one of the delivery modes (FTP, MSMQ etc.).

This topic contains the following sub-topics:

- [Brief Description of the Process](#)
This topic describes the incoming messages and outgoing messages.
- [EMS Details Maintenance](#)
This topic describes the EMS details maintenance such as message media maintenance, message media control maintenance, and folder structure maintenance.

1.1 Brief Description of the Process

This topic describes the incoming messages and outgoing messages.

This topic contains the following sub-topics:

- [For Incoming Messages](#)
This topic describes the incoming message for delivery modes and queue delivery mode.
- [For Outgoing Messages](#)
This topic describes the outgoing messages for delivery modes and queue delivery mode.

1.1.1 For Incoming Messages

This topic describes the incoming message for delivery modes and queue delivery mode.

For the delivery modes NT and FTP

The message files are to be placed in the EMS\SWIFT\In\Ready, in the EMS server. The incoming message service (In-service) copies the file to the folder EMS\SWIFT\IN\WIP and performs further processes like formatting etc. Once the processes are completed, the file is moved to the folder EMS\SWIFT\IN\PROCESSED.

Though all the folders are maintained in the EMS server, they can be mapped to any system.

For the queue delivery mode

The messages are placed by the external system in the in-queue. They are moved from there to the backup queue and sent for processing. Once processing is successful, the message is moved to the final queue.

1.1.2 For Outgoing Messages

This topic describes the outgoing messages for delivery modes and queue delivery mode.

For delivery modes NT and FTP

The messages are selected from the Oracle FLEXCUBE out table, formatted if required and moved to the folder EMS\SWIFT\OUT\WIP. From here, the file is picked up and moved to EMS\SWIFT\OUT.

For the queue delivery mode

The messages are sent to the out-queue.

1.2 EMS Details Maintenance

This topic describes the EMS details maintenance such as message media maintenance, message media control maintenance, and folder structure maintenance.

The following maintenance are required for the EMS:

- Message Media Maintenance
- Message Media Control Maintenance
- Maintaining Folder structure
- Specifying Parameters and Values

This topics has the following sub-topics:

- [Maintain Message Media](#)
The systematic instructions to maintain message media is explained in this topic.
- [Message Media Control](#)
The systematic instructions to message media control is explained in this topic.
- [Maintain Folder Structure for Delivery Mode Folder and Delivery Mode Queue](#)
This topic describes the folder structure maintenance for delivery mode.
- [Specify Parameters and Values for fcubs.properties File](#)
This topic describes how to specify the parameters and values for fcubs.properties file.

1.2.1 Maintain Message Media

The systematic instructions to maintain message media is explained in this topic.

1. On **Home** screen, type **UTDMEDIA** in the text box, and click **Next**.
The **Message Media Detail** screen is displayed.

Figure 1-1 Message Media Detail

2. On the **Message Media Detail** screen, specify the fields.

Table 1-1 Message Media Detail - Field Description

Field	Description
Media Code	Alphanumeric; 60 Characters; Mandatory Specify the media used for message propagation. For instance, SWIFT, MAIL etc.,
Media Number	Alphanumeric; 1 Character; Mandatory Specify the Media Number.
Media Description	Alphanumeric; 420 Characters; Mandatory Specify the Media Code.
Message Suffix	Alphanumeric; 400 Characters; Optional Specify the Suffix to be added in the message.
Message Terminator	Alphanumeric; 400 Characters; Optional Specify the Terminator to be used for terminating the message.
Number Characters	Alphanumeric; 3 Characters; Optional Specify the total length of the message.
Media Priority	Numeric; 99 Characters; Optional Specify the media priority. Based on the priority, the messages are processed with the media concerned.
Test Word Required	Optional Check this option if test word is required.
Stop Processing	Optional Check this option to stop processing.
Padding Required	Optional Check this option if padding is required. Padding letters are added at the end of the each message.
XML Message	Optional Check this option if XML message is required.

1.2.2 Message Media Control

The systematic instructions to message media control is explained in this topic.

1. On **Home** screen, type **UTDMCS** in the text box, and click **Next**.

The **Media Control Systems Detail** screen is displayed.

Figure 1-2 Media Control Systems Detail

Media Control Systems Detail

Save

Node *

Media Control System *

Media *

Status

Delivery Type ☐ Folder ☐ Queue

In Directory

Out Directory

File Prefix

Audit Cancel

2. On the **Message Control Systems** screen, specify the fields.

Table 1-2 Message Control Systems - Field Description

Field	Description
Node	Alphanumeric; 420 Characters; Mandatory Specify the DB instance name.
Media Control System	Alphanumeric; 60 Characters; Mandatory Specify the media control systems details.
Media	Alphanumeric; 60 Characters; Mandatory Select the Media from the drop-down list. The valid media maintained in the system are displayed in the drop-down list.
Status	Optional Select the status. The available options are • Active • Passive
Delivery Type	Optional Indicate the mode of the delivery. The available options are: • Folder • Queue
In Directory	Alphanumeric; 512 Characters; Optional Specify the directory in which the message files are to be placed by the external system (only for EMS_IN if delivery type is Folder .

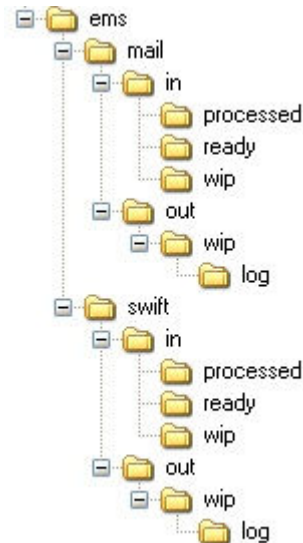
Table 1-2 (Cont.) Message Control Systems - Field Description

Field	Description
Out Directory	Alphanumeric; 512 Characters; Optional Specify the directory in which the message files are sent to external system (only for EMS_OUT .)
File Prefix	Alphanumeric; 1 Character; Optional Specify the file prefix details.
Unix In-Directory	Alphanumeric; 512 Characters; Optional Specify the directory in which the message files are to be placed by external system.
Unix Out Directory	Alphanumeric; 512 Characters; Optional Specify the directory in which the message files are sends to external system.
In Queue	Alphanumeric; 1020 Characters; Optional Specify the queue in which the message files are to be placed by the external system (only for EMS_IN if delivery type is Folder . If delivery type is Queue .
Out Queue	Alphanumeric; 1020 Characters; Optional Specify the queue in which the message files are sent to external system (only for EMS_OUT).
Message Queue	Optional Select the queuing software being used in bank as follows: • Microsoft Message Queue • WebSphere Messaging
Unix Swift Server	Optional Check this box for Unix swift server.

1.2.3 Maintain Folder Structure for Delivery Mode Folder and Delivery Mode Queue

This topic describes the folder structure maintenance for delivery mode.

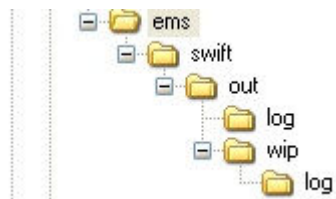
You should maintain the following folder structure on the Application server machine:

Figure 1-3 Folder Structure for Delivery Mode

The sub-folders for the media – MAIL and SWIFT – exist under the parent folder EMS.

Folder Structure for Delivery Mode Queue

You should maintain the following folder structure on the Application server machine:

Figure 1-4 Folder Structure for Delivery Mode Queue

The sub-folders for the media – SWIFT – exist under the parent folder EMS.

1.2.4 Specify Parameters and Values for fcubs.properties File

This topic describes how to specify the parameters and values for fcubs.properties file.

You should be specify the following parameter values in fcubs.properties file.

For Delivery Mode Folder

Table 1-3 For Delivery Mode Folder

Parameter	Description
EMS_INT_QCF	Internal Queue Connection Factory. Example: (EmsQcf)
EMS_OUT_JMS_DLQ	Out messages dead letter queue. Example: (NOTI- FY_QUEUE_DLQ)

Table 1-3 (Cont.) For Delivery Mode Folder

Parameter	Description
EMS_IN_JMS_DLQ	In messages dead letter queue. Example: (NOTI- FY_QUEUE_DLQ)
EMS_FILE_TRANSFER_MODE	Mode of file transfer. Example: FTP etc.
FTP_SRVR	FTP Server IP Address. Example: 169.165.98.11(if file Transfer Mode is ftp)
FTP_ID	FTP Server user Id (if file Transfer Mode is ftp)
FTP_PWD	FTP Server Password. Example: 2fb0x66QSug=(FTP Server Password in encrypt format)
FILE_TYPE	file type. Example: .txt, .xlsx etc
SWIFT_FORMAT	1
MSG_DELIMITER	YES
MSG_TERMINATOR	YES
MEDIA	SWIFT

For Delivery Mode Queue**Table 1-4 For Delivery Mode Queue**

Parameter	Description
EMS_EXT_QCF	Out Queue Connection Factory - External System
EMS_INT_QCF	Internal Queue Connection Factory Examples (EmsQcf)
EMS_OUT_JMS_DLQ	Out messages dead letter queue Examples (NOTIFY_QUEUE_DLQ)
EMS_IN_JMS_DLQ	in messages dead letter queue Examples (NOTIFY_QUEUE_DLQ)
EMS_INIT_CTX_FACT	Application server context factory class in which server external queue create examples (weblogic.jndi.WLInitialContextFactory)
EMS_PRVDR_URL	Application server ip address in which server external queue create example weblogic server t3:// 127.0.0.1:7001
EMS_QUEUE_PRINCIPAL	Application server User Id in which external queue create.
EMS_QUEUE_CREDENTIALS	Application server Password in which external queue create.
EMS_FILE_TRANSFER_MODE	Mode of file transfer. Examples: FTP etc.,
FTP_SRVR	FTP Server IP Address. Examples: 169.165.98.11(if file Transfer Mode is ftp)
FTP_ID	FTP Server userId. (if file Transfer Mode is ftp)
FTP_PWD	FTP Server Password. Examples: 2fb0x66QSug=(FTP Server Password in encrypt format)
FILE_TYPE	file type. Examples: .txt,.xlsx etc ..
SWIFT_FORMAT	1
MSG_DELIMITER	YES
MSG_TERMINATOR	YES
MEDIA	SWIFT

Index

U

UTDMCS, [1-4](#)

UTDMEDIA, [1-2](#)