Oracle® FLEXCUBE Investor Servicing

EMS Interface User Guide

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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

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

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

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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 derlivery 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 derlivery 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.

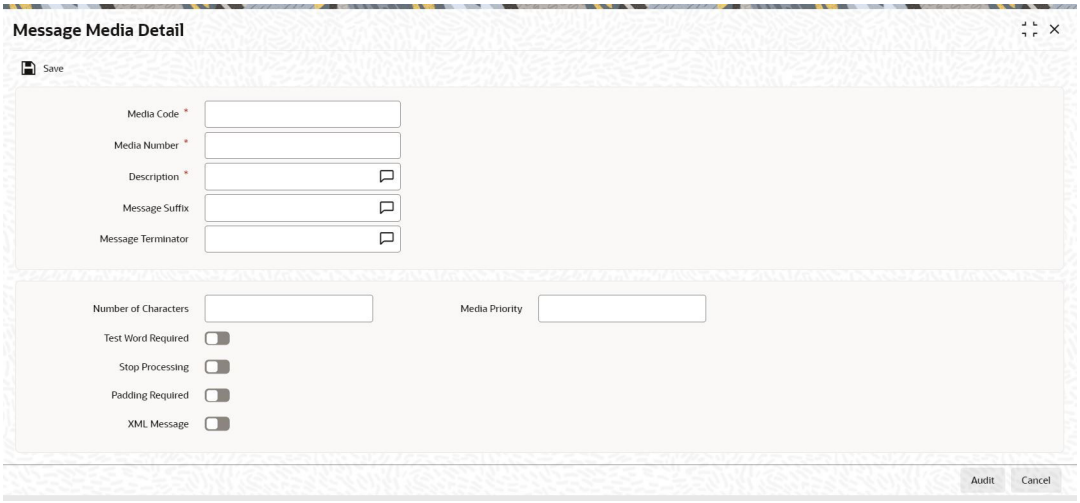
1.2.1 Maintain Message Media

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.

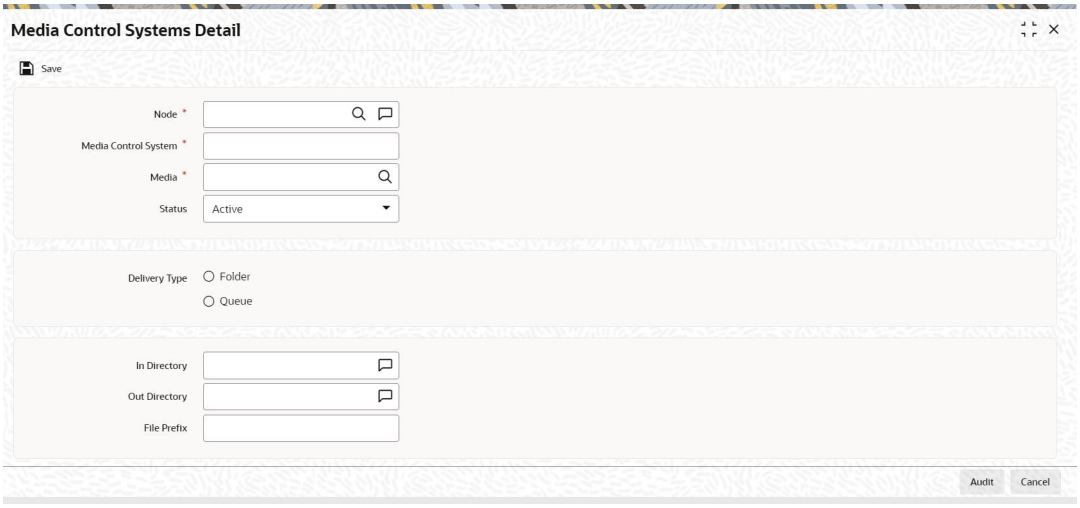
1.2.2 Message Media Control

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



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

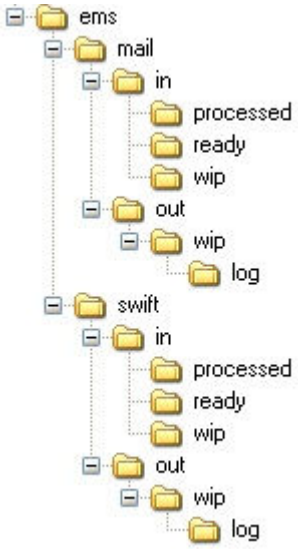
Field	Description
Out Directory	Alphanumeric; 512 Characters; Optional Specify the directory in which the message files are sent to external system (only for **EMS_OUT**.)
File Prefix	Alphanumeric; 1 Character; Optional Specify the file prefix details.
Unix In-Directory	Alphanumeric; 512 Characters; 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

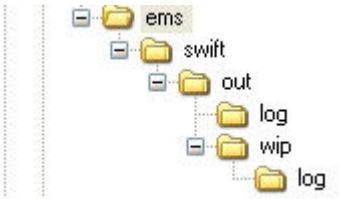


The sub-folders for the media – MAIL and SWIFT – exist under the parent folder EMS.

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

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