# EMS Interface User Guide Oracle FLEXCUBE Investor Servicing

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### 1. Preface

### 1.1 Introduction

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.

### 1.2 <u>Audience</u>

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

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

### 1.3 **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.

### 1.4 Organization

This manual is organized as follows:

Chapter	Description	
Chapter 1	About this Manual gives information on the intended audience. It also lists the various chapters covered in this User Manual.	
Chapter 2	<i>The Oracle FLEXCUBE EMS Interface</i> explains about the EMS (Electronic Messaging Service) interface between external systems and Oracle FLEXCUBE.	
Chapter 3	<i>Function ID Glossary</i> has alphabetical listing of Function/Screen ID's used in the module with page references for quick navigation.	



### 1.5 Acronyms and Abbreviations

Abbreviation	Description
System	Unless and otherwise specified, it shall always refer to Oracle FLEX- CUBE system

### 1.6 Related Documents

- XML Interface document outlines the details of the interface mechanism between Oracle FLEXCUBE and a system external to it
- The Procedure User Manual

### 1.7 Glossary of Icons

This User Manual may refer to all or some of the following icons:

lcons	Function
×	Exit
+	Add row
	Delete row
×1	Option List



### 2. 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 chapter contains the following sections:

- Section 2.1, "Brief Description of the Process"
- Section 2.2, "EMS Details Maintenance "

### 2.1 Brief Description of the Process

This section contains the following topics:

- Section 2.1.1, "For Incoming Messages"
- Section 2.1.2, "For Outgoing Messages"

#### 2.1.1 For Incoming Messages

#### 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.

#### 2.1.2 For Outgoing Messages

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.



### 2.2 EMS Details Maintenance

The following maintenances are required for the EMS:

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

This section contains the following topics:

- Section 2.2.1, "Maintaining Message Media"
- Section 2.2.2, "Message Media Control "
- Section 2.2.3, "Maintaining Folder Structure"
- Section 2.2.4, "Specifying Parameters and Values for fcubs.properties File"

#### 2.2.1 Maintaining Message Media

You can invoke the 'Message Media Maintenance' screen by typing 'UTDMEDIA' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button. The below given screen displays:

Message Media Detail					- ×
Save					
Media Code	*				
Media Number	*				
Description	*	P			
Message Suffix		P			
Message Terminator		P			
Number of Characters				Media Priority	
	<ul> <li>Test Word Required</li> <li>Stop Processing</li> <li>Padding Required</li> <li>XML Message</li> </ul>				
Input by Authorized by	DateTime DateTime		Mod No	Open Authorized	Cancel

Specify the following details:



#### Media Code

Alphanumeric; 60 Characters; Mandatory

Specify the media used for message propagation. For instance, SWIFT, MAIL etc

Media Number Alphanumeric; 1 Characters; Mandatory

Specify the media number.

Media Description Alphanumeric; 420 Characters; Mandatory

Describe 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 of 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 will be added at the end of each message.

#### XML Message

Optional

Check this option if XML message is required.



#### 2.2.2 Message Media Control

You can invoke the 'Message Media Control Maintenance' screen by typing 'UTDMCS' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button. The below given screen displays:

Media Control Systems Detail				- ×
Save				
Node * Media Control System *		P		<u>^</u>
Media <sup>a</sup> Status		Q		
Delivery Type	O Folder O Queue			
In Directory		P		B
Out Directory		P		
File Prefix				
Unix In-Directory		P	Unix Swift Server	
Unix Out-Directory		P	Microsoft Message Queue WebSphere Messaging	
In Queue		P		
Out Queue		D		-
Input by	DateTime	Mod No	Open	Cancel
Authorized by	DateTime		Authorized	Concer

Specify the following details:

#### 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 adjoining option list. The option list displays all the valid media maintained in the system.

#### Status

Optional

Select the status. The following are the options available:

- Active
- Passive

#### **Delivery Type**

#### Optional

Indicate the Mode of delivery. The following are the options available:



- Folder
- Queue

#### In Directory

Alphanumeric; 512 Characters; Optional

Specify the directory in which the message files are to be placed by external system (Only for EMS\_IN if delivery type is 'Folder').

#### **Out Directory**

Alphanumeric; 512 Characters; Optional

Specify the directory in which the message files are sends 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 external system (Only for EMS\_IN if Delivery type is 'Queue').

#### **Out Queue**

Alphanumeric; 1020 Characters; Optional

Specify the queue in which the message files are sends 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.

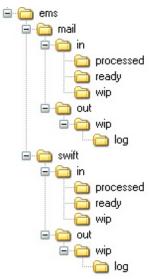
#### 2.2.3 Maintaining Folder Structure

Maintain the following folder structure:



#### 2.2.3.1 Folder Structure for Delivery Mode Folder

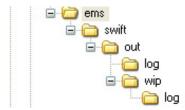
You should maintain the following folder structure on the Application server machine:



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

#### 2.2.3.2 Folder Structure for Delivery Mode Queue

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



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

#### 2.2.4 Specifying Parameters and Values for fcubs.properties File

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



### 2.2.4.1 For Delivery Mode Folder

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



### 2.2.4.2 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 (NOTI- FY_QUEUE_DLQ)			
EMS_IN_JMS_DLQ	in messages dead letter queue Examples (NOTI- FY_QUEUE_DLQ)			
EMS_INIT_CTX_FACT	Application server context factory class in which server external queue create examples (web- logic.jndi.WLInitialContextFactory)			
EMS_PRVDR_URL	Application server ip address in which server exter- nal 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			



# 3. Function ID Glossary

U

UTDMCS ......2-3 UTDMEDIA .....2-2

