

EMS Interface User Guide

# **Oracle FLEXCUBE Investor Servicing**

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EMS Interface User Guide  
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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 Audience

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                                                                                                                                            |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chapter 1</b> | <i>About this Manual</i> gives information on the intended audience. It also lists the various chapters covered in this User Manual.                   |
| <b>Chapter 2</b> | <i>The Oracle FLEXCUBE EMS Interface</i> explains about the EMS (Electronic Messaging Service) interface between external systems and Oracle FLEXCUBE. |
| <b>Chapter 3</b> | <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:

| Icons                                                                               | Function    |
|-------------------------------------------------------------------------------------|-------------|
|    | Exit        |
|    | Add row     |
|  | Delete row  |
|  | 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 \*

Message Suffix

Message Terminator

Number of Characters

Media Priority

☐ Test Word Required

☐ Stop Processing

☐ Padding Required

☐ XML Message

Input by      DateTime      Mod No      Open

Authorized by      DateTime      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 \*

Media \*

Status Active

Delivery Type ☐ Folder ☐ Queue

In Directory

Out Directory

File Prefix

Unix In-Directory

Unix Out-Directory

In Queue

Out Queue

☐ Unix Swift Server  
☐ Microsoft Message Queue  
☐ WebSphere Messaging

| Input by      | DateTime | Mod No | Open       |
|---------------|----------|--------|------------|
| Authorized by | DateTime |        | Authorized |

Cancel

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*

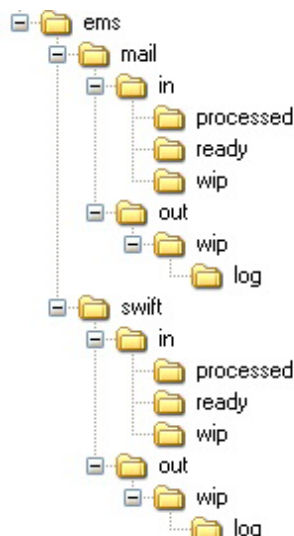
Check this box for Unix swift server.

### **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                                                                       |
|------------------------|-----------------------------------------------------------------------------------|
| EMS_INT_QCF            | Internal Queue Connection Factory. Example: (EmsQcf)                              |
| EMS_OUT_JMS_DLQ        | Out messages dead letter queue. Example: (NOTIFY_QUEUE_DLQ)                       |
| EMS_IN_JMS_DLQ         | In messages dead letter queue. Example: (NOTIFY_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 (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<br>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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## 3. Function ID Glossary

### U

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