

# Oracle® Banking Treasury Management

## EMS Interface User Guide



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# Preface

This topic contains the following sub-topics:

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## Purpose

This manual is designed to help acquaint the user with the EMS Interface User Guide of Oracle Banking Treasury Management.

## Audience

This manual is intended for the following audience:

- Back office data entry Clerks
- Back office Managers/Officers
- Product Managers
- End of day operators
- Financial Controller/Product Managers

## 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**

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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 make sure 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.

## Related Resources

For more information, see these Oracle resources:

- *Oracle Banking Treasury Management Installation Manuals*
- *Procedures User Guide*

## Conventions

The following text conventions are used in this document:

Convention	Meaning
<b>boldface</b>	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 acronyms and abbreviations are listed in this below table:

Table Abbreviations and Acronyms

Abbreviations or Acronyms	Definition
EMS	Electronic Messaging Service
DB	Database
ASCII	American Standard Code for Information Interchange
FTP	File Transfer Protocol

## Basic Actions

Table List of Basic Actions

Action	Description
<b>Approve</b>	Click <b>Approve</b> to approve the initiated report. This button is displayed, once the user click <b>Authorize</b> .
<b>Audit</b>	Click <b>Audit</b> to view the maker details, checker details of the particular record, and record status. This button is displayed only for the records that are already created.
<b>Authorize</b>	Click <b>Authorize</b> to authorize the record created. A maker of the screen is not allowed to authorize the report. Only a checker can authorize a record. This button is displayed only for the already created records.
<b>Close</b>	Click <b>Close</b> to close a record. This action is available only when a record is created.
<b>Confirm</b>	Click <b>Confirm</b> to confirm the performed action.
<b>Cancel</b>	Click <b>Cancel</b> to cancel the performed action.
<b>Compare</b>	Click <b>Compare</b> to view the comparison through the field values of old record and the current record. This button is displayed in the widget, once the user click <b>Authorize</b> .
<b>Collapse All</b>	Click <b>Collapse All</b> to hide the details in the sections. This button is displayed, once the user click <b>Compare</b> .
<b>Expand All</b>	Click <b>Expand All</b> to expand and view all the details in the sections. This button is displayed, once the user click <b>Compare</b> .
<b>New</b>	Click <b>New</b> to add a new record. The system displays a new record to specify the required data. <b>Note:</b> The fields which are marked in asterisk red are mandatory fields.
<b>OK</b>	Click <b>OK</b> to confirm the details in the screen.
<b>Save</b>	Click <b>Save</b> to save the details entered or selected in the screen.
<b>View</b>	Click <b>View</b> to view the report details in a particular modification stage. This button is displayed in the widget, once the user click <b>Authorize</b> .
<b>View Difference only</b>	Click <b>View Difference only</b> to view a comparison through the field element values of old record and the current record, which has undergone changes. This button is displayed, once the user click <b>Compare</b> .

## Symbols and Icons

The list of symbols and icons available on the screens are as follows:

Table Symbols and Icons - Common




















Symbol/Icon	Function
	Minimize
	Maximize
	Close
	Perform Search
	Open a list
	Navigate to the first record
	Navigate to the last record
	Navigate to the previous record
	Navigate to the next record
	Grid view
	List view
	Refresh
	Click this icon to add a new row.
	Click this icon to delete a row, which is already added.
	Calendar
	Alerts
	Unlock Option
	View Option
	New

Table (Cont.) Symbols and Icons - Common














Symbol/Icon	Function
	Enter query
	Execute query
	Copy
	Delete
	Save
	Search
	Advanced search
	Clear all
	Reset
	Export
	Print
	View Details
	Sorting

Table Symbols and Icons - Widget









Symbol/Icon	Function
	Open status
	Unauthorized status
	Rejected status
	Closed status



Table (Cont.) Symbols and Icons - Widget

Symbol/Icon	Function
	Authorized status
	Modification Number
	Hold
	Reverse

# 1

## The OBTR EMS Interface

The EMS or the Electronic Messaging Service is a messaging interface between external systems and Oracle Banking Treasury Management. 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 Banking Treasury Management 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 Banking Treasury Management.

The out-service polls on an Oracle Banking Treasury Management 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:

- [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 subtopics:

- [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 describe sthe outgoing messages for delivery modes and queue delivery mode

#### For delivery modes NT and FTP

The messages are selected from the Oracle Banking Treasury Management 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 instruction to maintain message media is explained in this topic.
- [Message Media Control](#)  
The systematic instruction 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 OBTR Properties File](#)  
This topic describes how to specify the parameters and values for OBTR properties file.

### 1.2.1 Maintain Message Media

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

1. On the Home page, enter **MSDMEDMT** in the text field and then click the next arrow.  
The **Media Maintenance** screen is displayed.

Figure 1-1 Media Maintenance

Media Maintenance

New

Enter Query

Media Code \*

Description \*

Media Number

Message Suffix

Message Terminator

Number of Characters

Test Word Required

Stop Processing

Padding Required

Media Priority \*

Compatible Media

Compatible Media \*

No data to display.

Page 1 (0 of 0 items) |< 1 >|

Fields

Audit

Exit

2. On the **Media Maintenance** screen, specify the fields.

Table 1-1 Media Maintenance- Field Description

Field	Description
Media Code	Specify the media used for message propagation. For example: SWIFT, MAIL, etc.
Media Description	Specify the Media Code.
Message Suffix	Specify the Suffix to be added in the message.
Message Terminator	Specify the Terminator to be added in the message
Number Characters	Specify the total length of the message.
Media Priority	Specify the media priority. Based on the priority, the messages are processed with the media concerned.
Padding Required	Check this option if padding is required. Padding letters are added at the end of the each message.

1.2.2 Message Media Control

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

(Optional) Enter contextual information here, including the purpose of the task.

1. On the Home page, enter **MSDMGMCS** in the text field and then click the next arrow.
- The **Message Media Control Systems** screen is displayed.

**Figure 1-2 Message Media Control Systems**

**Message Media Control Maintenance**

New Enter Query

Node \*  
Media Control System \*  
Media \*  
Status Active

**Delivery Preference**

Delivery Type  
☒ Folder  
☐ Queue  
☐ Message over Rest

In Directory  
Out Directory  
File Prefix

Unix In-Directory  
Unix Out-Directory  
In Queue  
Out Queue  
Out Queue

Header Profile  
LBL\_RS\_URL  
LBL\_SERVICE\_PROFILE

**MX Preference**

Unix SWIFT Server  
☐ Microsoft Message Queue  
☒ WebSphere Messaging Queue  
☒ WebSphere Messaging Queue

Wrap Outbound Message

Fields Audit Exit

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

**Table 1-2 Message Control Systems- Field Description**

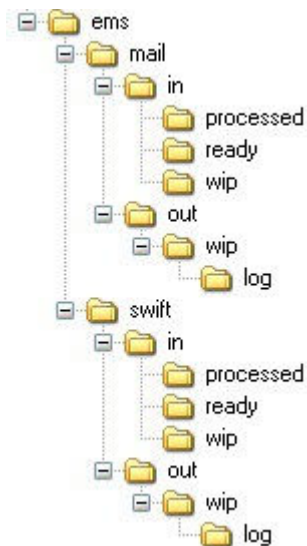
Field	Description
<b>Node</b>	Specify the DB instance name.
<b>Media</b>	Select the Media type from the drop-down list. The valid media maintained in the system are displayed in the drop-down list.
<b>Status</b>	Select the status. The available options are <ul style="list-style-type: none"> <li><b>Active</b></li> <li><b>Passive</b></li> </ul>
<b>Delivery Type</b>	Indicate the mode of the delivery. The available options are: <ul style="list-style-type: none"> <li><b>Folder</b></li> <li><b>Queue</b></li> </ul>
<b>In Directory</b>	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').
<b>Out Directory</b>	Specify the directory in which the message files are sent to external system (only for EMS_OUT )
<b>In Queue</b>	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'
<b>Out Queue</b>	Specify the queue in which the message files are sent to external system (only for EMS_OUT).
<b>Message Queue</b>	Select the queuing software used in the bank.

### 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 Delivery Mode Folder**

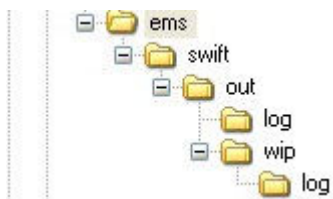


The sub-folders for the media – MAIL and SWIFT – exist under the parent folder EMS.

#### **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 OBTR Properties File**

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

You should be specify the following parameter values in OBTR 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)
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 (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 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

# 2

## Maintaining Interface Specific Details

Oracle Banking Treasury Management is an international universal banking solution catering to the treasury back office functions among other modules.

The details of all customer account transactions can be handed off to the external systems existing within your bank, through an interface. This document outlines the specifications of the interface between Oracle Banking Treasury Management and the external systems.

The interface handles (hands off) data pertaining to the following functions:

- Account Statement hand off – the account statement hand off is performed based on the account statement cycle, maintained in the customer account maintenance, whereby the details of all account statements are generated.

The salient features of the interface are as follows:

- Data is transferred to the external system (s) through ASCII files in predefined file formats.
- Data is handed off at the end of the business day as a Batch file to the external system.



### Note:

If Handoff fails you will need to trigger it once again.



# Index

## M

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MSDMEDMT- Media Maintenance, [1-2](#)

MSDMGMCS- Message Media Control Systems,  
[1-3](#)