Troubleshooting Guide

Oracle Banking Liquidity Management

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Troubleshooting Guide

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1 Preface

1.1 Purpose

This guide provides guidance to users for the issues within the application. It describes various methods to figure out the error and then troubleshoot it.

1.2 Audience

This guide is intended for the software developers and software testers.

1.3 Document 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 Acronyms and Abbreviations

The following acronyms/abbreviations are used in this guide:

Table 1: Acronyms and Abbreviations

Acronyms	Definition
SMS	Security Management System
CMC	Common Core
MOC	Mid office Common Core
ELK	Elasticsearch Logstash Kibana

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1.5 List of Topics

This guide is organized into the following topics. The chapters 1 to 3 are generic and applicable for Oracle Banking Microservice Architecture platform wide troubleshooting and chapter 4 to 7 are specific to Oracle Banking Liquidity Management product

Table 2: List of Topics

Topic	Description
Preface	This chapter provides the information about this guide and intended audience. It also lists the various chapters covered in this User Manual.
Troubleshooting Technical Flows	This chapter describes the platform wide troubleshooting of technical flows and includes UI side checking, and some environment issues of WebLogic.
Troubleshooting Kafka	This chapter describes the information on the troubleshooting kafka.
Health Checks	This chapter describes the health check measures and observability required.
Troubleshooting Application Workflows	This chapter describes the Oracle Banking Liquidity Management specific troubleshooting of flows and specific data stores that can be checked for issues.
Troubleshooting OutOfMemory issues	This chapter describes about the information on troubleshooting OutOfMemory issues.
Business Error Codes	This chapter provides the list of error codes expected out of Oracle Banking Liquidity Management

1.6 Prerequisites

The prerequisites are as follows:

- Basic understanding of Event platform

- Basic understanding application log analysis using tools.

- Basic understanding DB changes.

The following software's should be pre-installed.

- Zipkin

- Kafka

- ELK

- Any SQL Database like SQLDEVELOPER

- WinSCP

1.7 General Prevention

Do not make changes to Flyway scripts manually.

1.8 Best Practices

The best practices are as follows:

- It is ideal to have ELK stack installed on a separate VM outside the product VMs to ensure flow of logs in case of app crash.

- Log levels can be adjusted to INFO and above to enable relevant logs to flow in.

1.9 Related Documents

The related documents are as follows:

- Oracle Banking Common Core User Guide

- Getting Started User Guide

- Oracle Banking Security Management System User Guide

- Oracle Banking Liquidity Management User Guide

- Oracle Banking Liquidity Management EOD Configuration Guide

- Oracle Banking Liquidity Management File Upload User Guide

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2 Troubleshooting Technical Flows

This chapter describes various programming issues, possible causes, and solutions to resolve the issues. This topic contains the following sections:

- *2.1 Where is the problem*

- *2.2 Preliminary checks from UI*

- *2.3 Troubleshooting Environmental Issues*

2.1 Where is the problem

Troubleshooting the problem in distributed system could be bit challenging if not understood fully. Each product has UI application components and service side application components. Each side requires different troubleshooting techniques and various logs that can be used to corroborate the problem.

The below picture shows that on service side, it is important to establish the area of the problem. This can be achieved by complete understanding of UI, Service side flows along with the data architecture of application.

Figure 1: Distributed Flow across Micro Services

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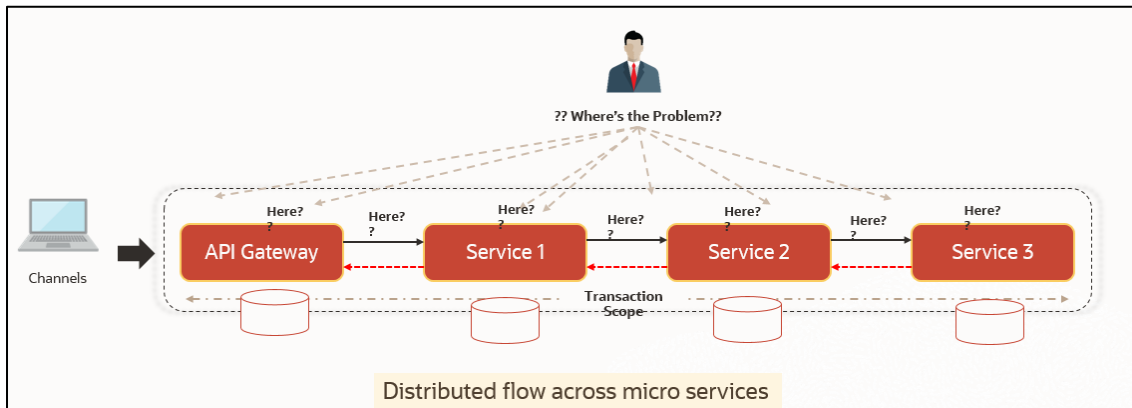
2.2 Preliminary checks from UI

This section describes how to launch the application and check for the basic errors. Perform the following steps:

1. Launch the application with delegated URL.

2. Press **F12** key, and select **Inspect and See network** tab.

3. Verify that all the calls responses are successful. Usually RED color indicates non 2xx HTTP response.

Figure 2: Call Responses
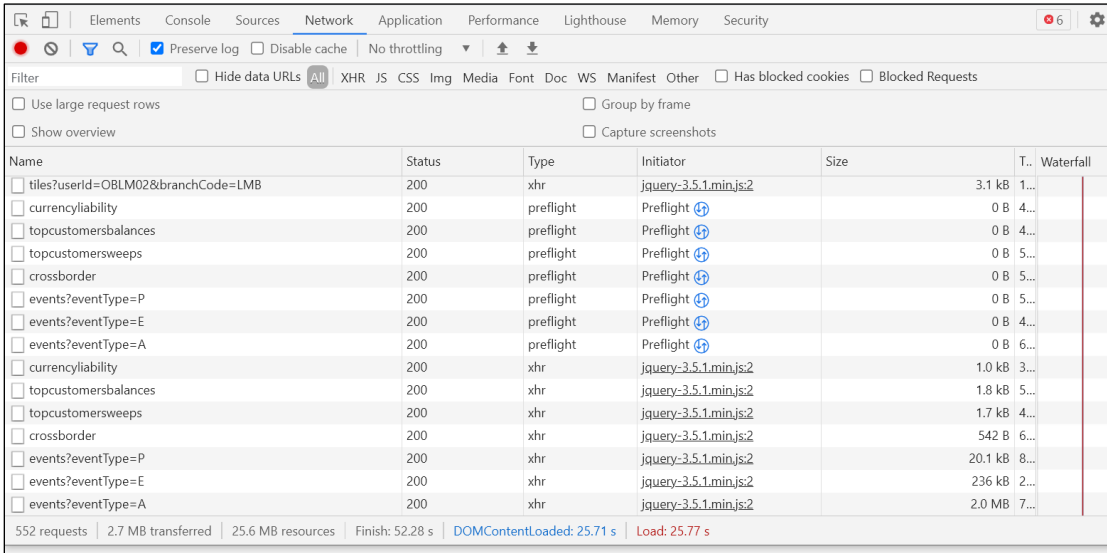
Figure 3: Non 2xx response
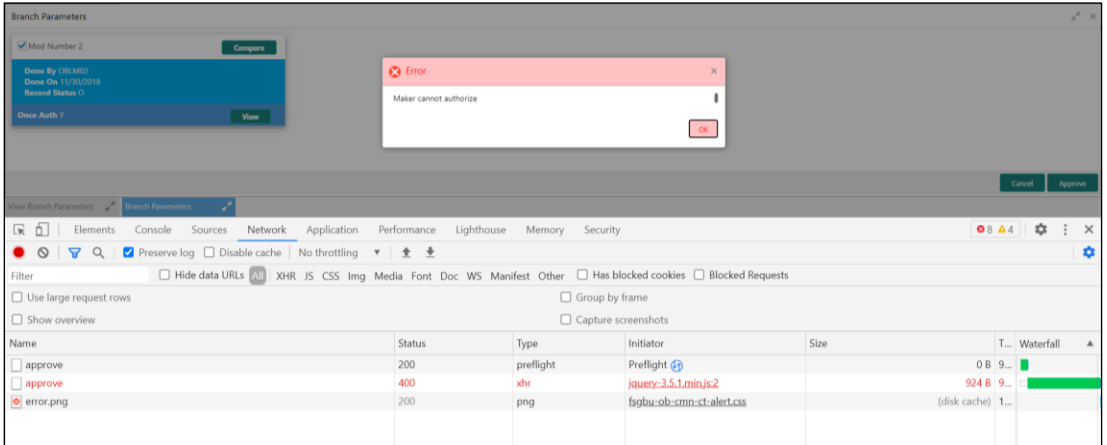
Figure 4: Details of Non 2xx Response
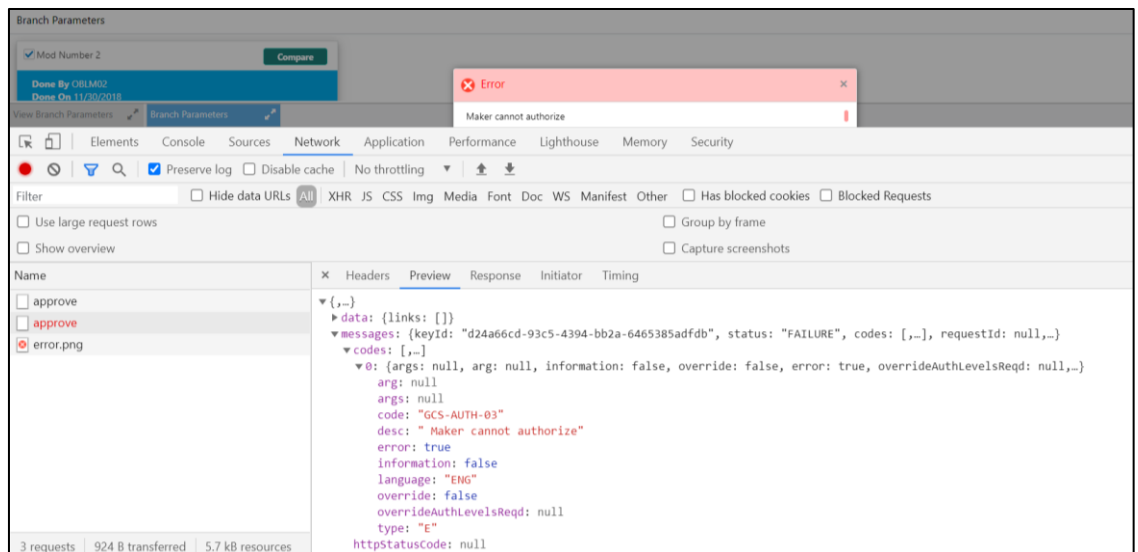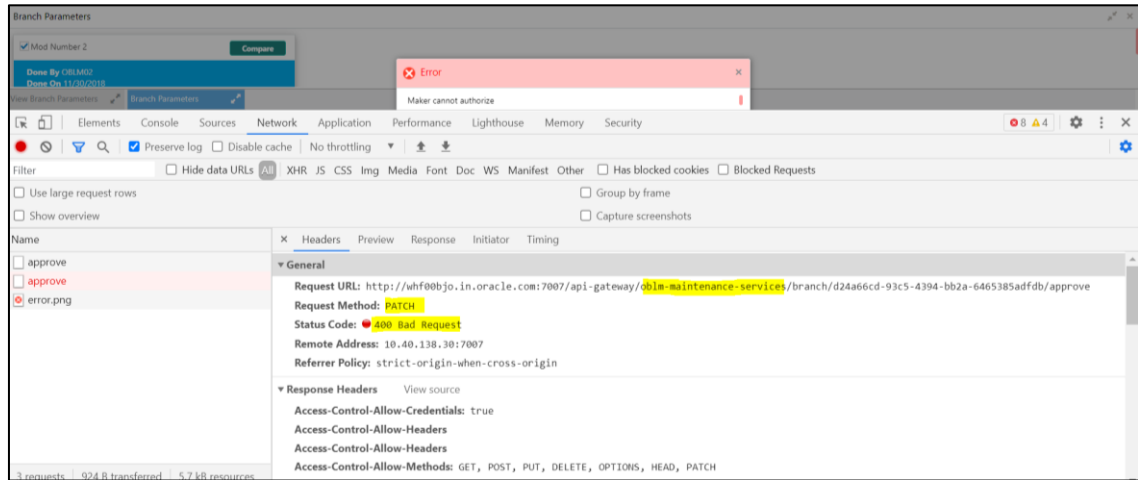
4. You can also export the trace using export option in browsers

    Example in Chrome you would see this option as below

    Figure 5: Export Option
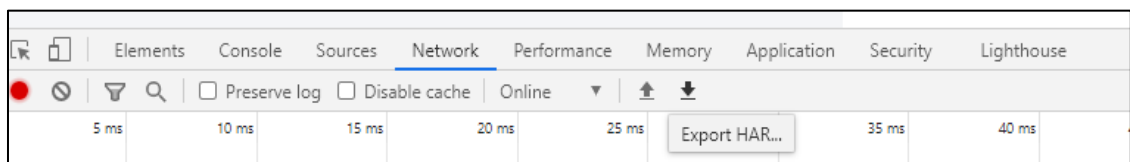
NOTE: The tools such as **fiddler** and **wireshark** to get the browser to API gateway web traffic. This would help to investigate exact request and response payloads exchanged between UI and API Gateway.

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2.3 Troubleshooting Environmental Issues

This section contains the following subsections:

2.3.1 Possible issues while deploying services

This subsection describes the possible issues that may occur in the environment.

2.3.1.1 Service deployment is failing due to flyway

If the service deployment is failing due to flyway, verify that the object or record is already present and make changes in the flyway scripts accordingly.

You may check **flyway_schema_history** table of the respective schema for finding the flyway script entries.

2.3.1.2 Other possible issues

The other possible issue while deploying services could be multiple versions of dependency jars present in the war file. For example, "weblogic.application.naming.EnvironmentException: duplicate persistence units with name PLATO in scope cmc-customer-services-{version}.war."

2.3.2 Possible issues in login and screen launch

This subsection describes the possible issues that may occur while logging in and launching the screens.

2.3.2.1 Login page is not launching

If the login page is not launching, check if the app-shell war file is deployed. If it is deployed, make sure that the war file is up and running in the deployed managed server and try to login. In addition, check if you are logged in with the appshell URL according to the war file deployed.

Also, check if the required component-server wars like cmc-component-server, oblm-component-server etc are also deployed along with the app-shell.

For example, https://<ip-address>:<port>/appshell/index.jsp will load the login page of the application.

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Figure 6: Login Page
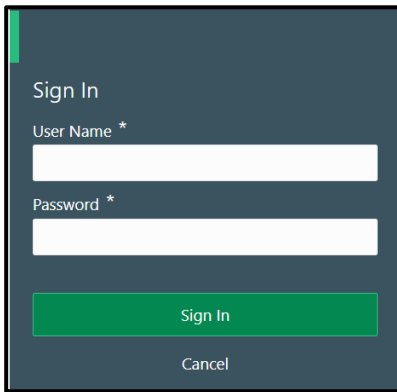
2.3.2.2 Unable to login after launching the application

If you are not able to login after the application is launched, make sure that the plato-api-gateway service, plato-ui-config service, sms-core-service, and common-core-services are up and running.

Figure 7: Services

PLATO-API-GATEWAY	n/a (1)	(1)	UP (1) -
PLATO-BATCH-SERVER	n/a (1)	(1)	UP (1) -
PLATO-DISCOVERY-SERVICE	n/a (1)	(1)	UP (1) -
PLATO-O	n/a (1)	(1)	UP (1) -
PLATO-ORCH-SERVICE	n/a (1)	(1)	UP (1) -
PLATO-UI-CONFIG-SERVICES	n/a (1)	(1)	UP (1) -
SMS-CORE-SERVICES	n/a (1)	(1)	UP (1) -

2.3.2.3 Unable to login after restarting the services

If you are not able to login after restarting the services, make sure that the LDAP server is up and running, and check if the entered credentials are correct.

2.3.2.4 Menus are not displayed after logging in

After you log in, if the menus are not displayed, map the functional activity codes in the table SMS_TM_ROLE_ACTIVITY. Once it is mapped, check if the corresponding role is assigned to your user id.

2.3.2.5 Screens are not launching after logging in

If you are not able to launch the screens after logging in, make sure that the respective services are up and running.

NOTE: Verify the VPN connection while trying to troubleshoot the issues related to page launching, etc.

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3 Troubleshooting Kafka

3.1 Consumer Services

Oracle Banking Liquidity Management does not have any consumer service as of now.

3.2 Producer Services

oblm-integration-services is the sole producer for Oracle Banking Liquidity Management services.

3.3 Debugging Consumer/Producer health and troubleshooting

3.3.1 Logs to analyze

oblm-integration-services logs should be checked.

3.3.2 Tables to analyze

The below table provides the values to be verified to confirm accurate functioning of the consumer/producer service.

Table Name	Column Name	Possible Values
lmx_tb_event_log	is_published	Y -> Published N -> not published E - >Error and won't be published as it reached the max retry set by customer
plato_eventhub_in_log		
plato_eventhub_out_log	status	SENT -> Published successfully

3.4 Configurations

For kafka setup, refer to **Oracle Banking Microservices Platform Foundation Installation Guide** and for the application-level setup, all the properties are declared in the yaml file of integration services.

4 Health Checks

4.1 Eureka Dashboard

Until we get heath check APIs implemented, the health needs to be monitored using weblogic JVM managed server status and Eureka instance.

Figure 8: Health Checks

Instances currently registered with Eureka			
Application	AMIs	Availability Zones	Status
CMC-ACCOUNT-SERVICES	n/a (1)	(1)	UP (1) -
CMC-BASE-SERVICES	n/a (1)	(1)	UP (1) -
CMC-BRANCH-SERVICES	n/a (1)	(1)	UP (1) -
CMC-CURRENCY-SERVICES	n/a (1)	(1)	UP (1) -
CMC-CUSTOMER-SERVICES	n/a (1)	(1)	UP (1) -
CMC-EXTERNAL-CHART-ACCOUNT-SERVICES	n/a (1)	(1)	UP (1) -
CMC-EXTERNAL-SYSTEM-SERVICES	n/a (1)	(1)	UP (1) -
CMC-EXTERNAL-VIRTUAL-ACCOUNT-SERVICES	n/a (1)	(1)	UP (1) -
CMC-OBRH-SERVICES	n/a (1)	(1)	UP (1) -
CMC-REPORT-SERVICES	n/a (1)	(1)	UP (1) -
CMC-SETTLEMENTS-SERVICES	n/a (1)	(1)	UP (1) -
CMC-TXN-CODE-SERVICES	n/a (1)	(1)	UP (1) -
OBLM-BATCH-SERVICES	n/a (1)	(1)	UP (1) -
OBLM-CASH-CONCENTRATION-SERVICES	n/a (1)	(1)	UP (1) -
OBLM-DASHBOARD-SERVICES	n/a (1)	(1)	UP (1) -
OBLM-ICL-SERVICES	n/a (1)	(1)	UP (1) -
OBLM-INTEGRATION-SERVICES	n/a (1)	(1)	UP (1) -
OBLM-MAINTENANCE-SERVICES	n/a (1)	(1)	UP (1) -
OBLM-POOL-SERVICES	n/a (1)	(1)	UP (1) -

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4.2 Application Services

Catalog of services required for Oracle Banking Liquidity Management to run

Table 3: Application Services

Group	Service List	Usage
Oracle Banking Liquidity Management	oblm-cash-concentration-services	Used for various sweeps/cash concentration methods.
Oracle Banking Liquidity Management	oblm-dashboard-services	Used for loading oblm dashboard data
Oracle Banking Liquidity Management	oblm-icl-services	Used for inter-company loan creation
Oracle Banking Liquidity Management	oblm-integration-services	Used for integrating with external systems.
Oracle Banking Liquidity Management	oblm-maintenance-services	Used for LM parameter maintenances.
Oracle Banking Liquidity Management	oblm-messaging-services	Used for payment messaging
Oracle Banking Liquidity Management	oblm-pool-services	Used for pool structures
Oracle Banking Liquidity Management	oblm-report-services	Used for report generation
Oracle Banking Liquidity Management	oblm-rtl-services	Used for RTL structures

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Group	Service List	Usage
Oracle Banking Liquidity Management	oblm-structure-services	Used for account structures
Oracle Banking Liquidity Management	oblm-sweep-services	Used for sweep executions
Oracle Banking Liquidity Management	oblm-component-server	Oracle Banking Liquidity Management UI
Oracle Banking Liquidity Management	obic-bod-batch-services	Used for Interest and Charges
Oracle Banking Liquidity Management	oblm-ic-config-services	Used for Interest and Charges
Oracle Banking Liquidity Management	oblm-ic-charge-calc-services	Used for Interest and Charges
Oracle Banking Liquidity Management	oblm-ic-external-adapter-services	Used for Interest and Charges
Oracle Banking Liquidity Management	obic-intchg-accting-services	Used for Interest and Charges
Oracle Banking Liquidity Management	obic-interest-accrual-services	Used for Interest and Charges
Oracle Banking Liquidity Management	obic-interest-allocate-services	Used for Interest and Charges
Oracle Banking Liquidity Management	obic-interest-batch-services	Used for Interest and Charges

Group	Service List	Usage
Oracle Banking Liquidity Management	obic-interest-calc-services	Used for Interest and Charges
Oracle Banking Liquidity Management	obic-interest-input-services	Used for Interest and Charges
Oracle Banking Liquidity Management	obic-interest-liquidation-services	Used for Interest and Charges
Oracle Banking Liquidity Management	obic-interest-maintqueue-services	Used for Interest and Charges
Oracle Banking Liquidity Management	obic-interest-resolve-services	Used for Interest and Charges
Oracle Banking Liquidity Management	obic-maintenance-services	Used for Interest and Charges
Oracle Banking Liquidity Management	obic-online-liquidation-services	Used for Interest and Charges
Oracle Banking Liquidity Management	vamlm-charge-services	Used for Interest and Charges
PLATO	plato-config-service	Required for PLATO framework
PLATO	plato-api-gateway	Required for PLATO framework
PLATO	plato-ui-config-services	Required for PLATO framework
PLATO	plato-discovery-service	Required for PLATO framework

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Group	Service List	Usage
PLATO	plato-batch-server	Required for PLATO framework
PLATO	plato-orch-service	Required for PLATO framework
PLATO	plato-feed-services	Required for PLATO framework
PLATO	plato-report-services	Required for PLATO framework
PLATO	plato-o	Required for PLATO framework
SMS	sms-core-services	SMS services
SMS	sms-component-server	SMS UI
CMC	cmc-obrh-service	Used for routing via OBRH
CMC	cmc-settlements-services	Common Core Services
CMC	cmc-txn-code-services	Common Core Services
CMC	cmc-account-services	Common Core Services
CMC	cmc-base-services	Common Core Services
CMC	cmc-branch-services	Common Core Services
CMC	cmc-businessoverrides-services	Common Core Services

Group	Service List	Usage
CMC	cmc-charges-calculation-services	Common Core Services
CMC	cmc-currency-services	Common Core Services
CMC	cmc-customer-services	Common Core Services
CMC	cmc-external-chart-account	Common Core Services
CMC	cmc-external-system-services	Common Core Services
CMC	cmc-external-virtual-account-services	VAM services
CMC	cmc-resourceclass-services	Common Core Services
CMC	cmc-resource-segment-orchestrator-service	Common Core Services
CMC	cmc-screenclass-services	Common Core Services
CMC	cmc-component-server	CMC UI
PLATO	app-shell	UI

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5 Troubleshooting Application Workflows

This topic describes the troubleshooting functional workflows applicable to Oracle Banking Liquidity Management. It contains the following sections:

- 5.1 Oracle Banking Liquidity Management – Subdomains List

- 5.2 Micro Frontend Architecture

- 5.3 Payment Service Integration Troubleshooting

5.1 Oracle Banking Liquidity Management – Subdomains List

Figure 9: Subdomains
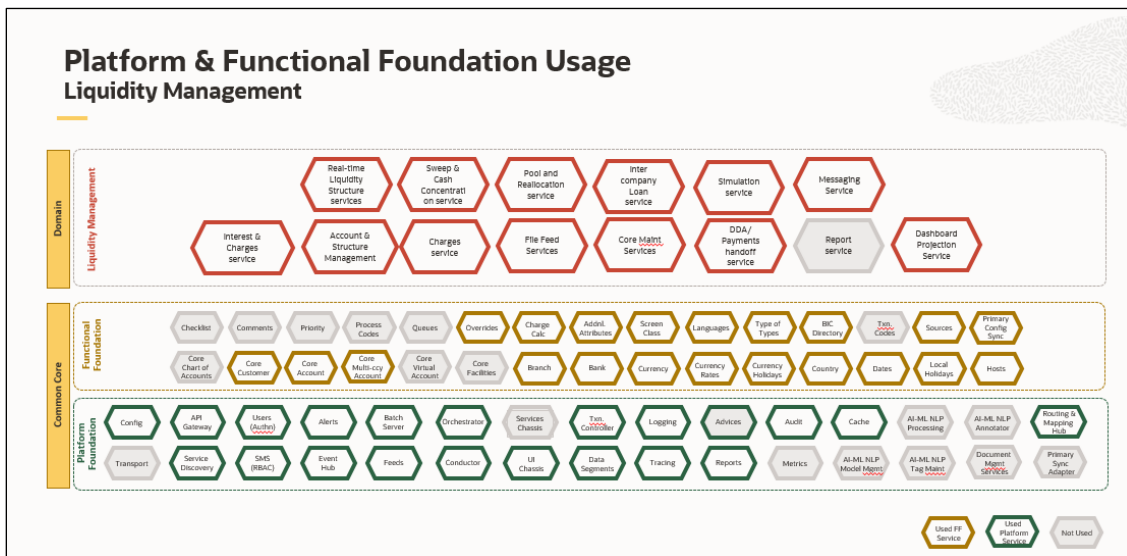
5.2 Micro Frontend Architecture

The Micro Frontend Architectures of Oracle Banking Liquidity Management are shown below:

Figure 10: UI – Micro Frontend Architecture
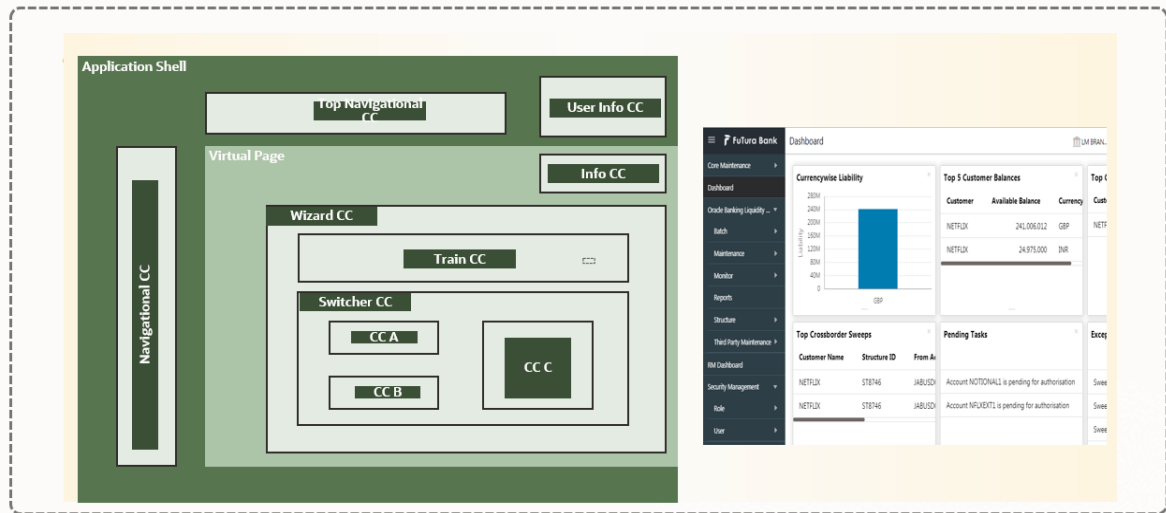
Figure 11: Services – Micro Frontend Architecture
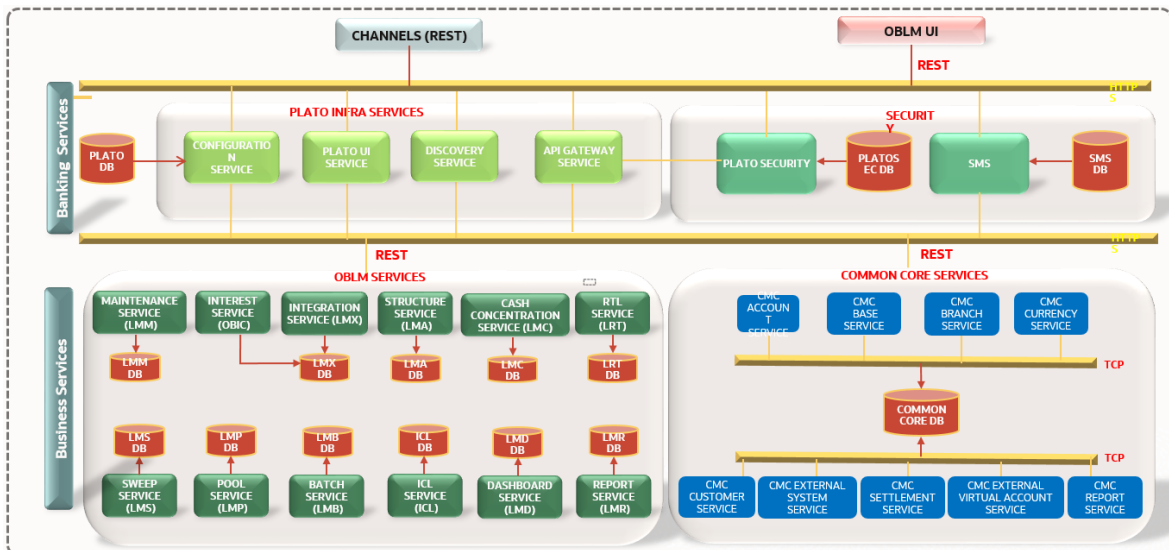
On successful login, the Oracle Banking Liquidity Management dashboard screen appears depending on the user privileges.

Figure 12: Oracle Banking Liquidity Management Dashboard
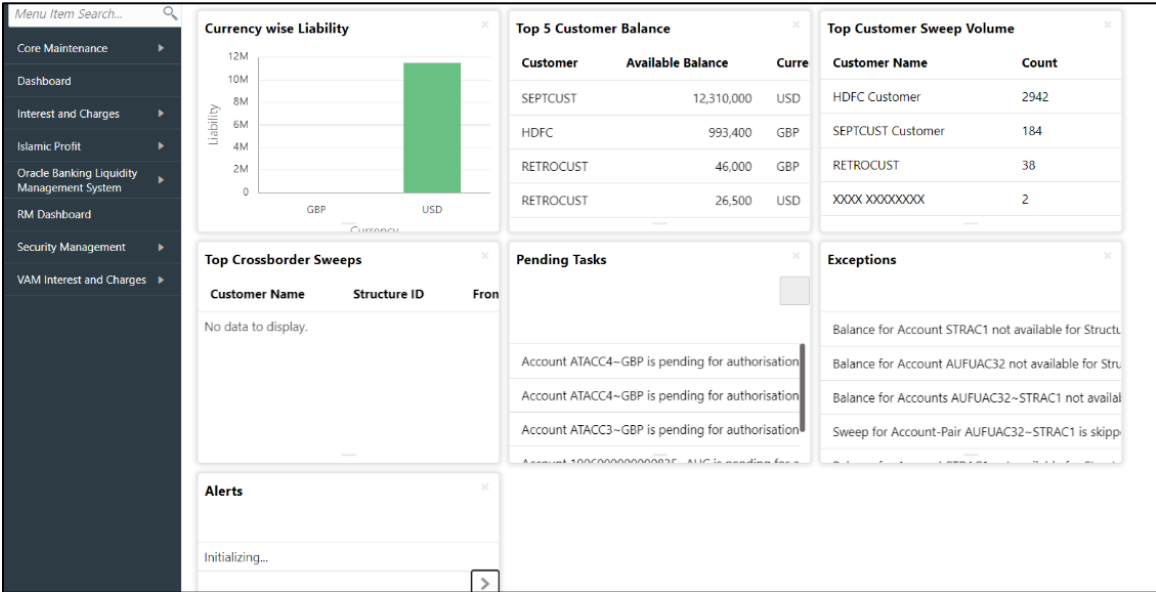
- **User Role Issues**

  Role Profile includes access rights to the functional activities that are common to a group of users. A user can be linked to a Role Profile by which you give the user access rights to all the functional activities in the Role Profile.

  Go to: **Security Management** > **Role** screen.

  Figure 13: Role Maintenance
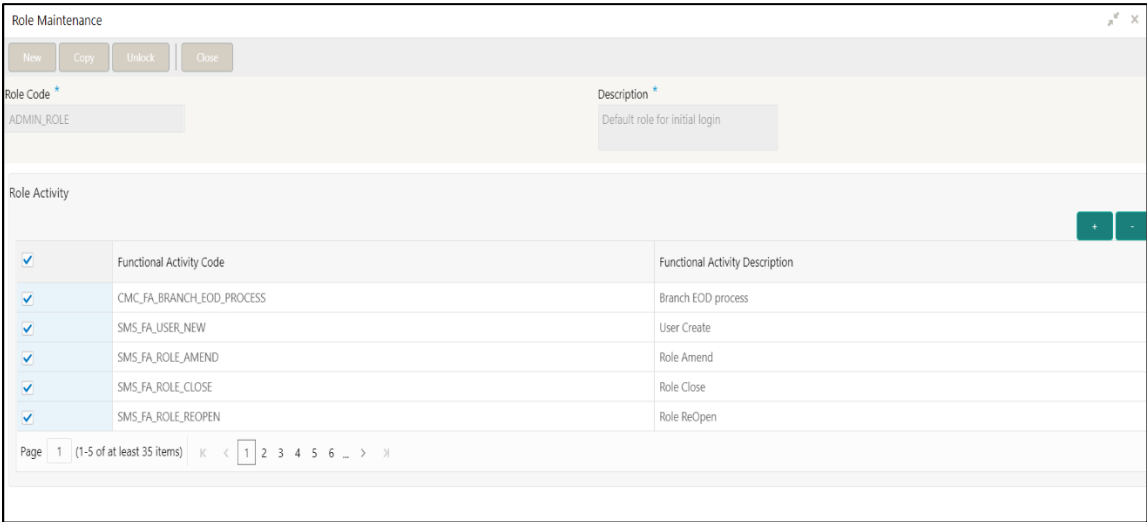
  Only authorized users can access the system with the help of a unique User Login ID and password. The user profile of a user contains the details of the user in four sections - User details, Status, Other details and User role branches.

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Go to: **Security Management** > **User** screen.

Figure 14: Users Maintenance
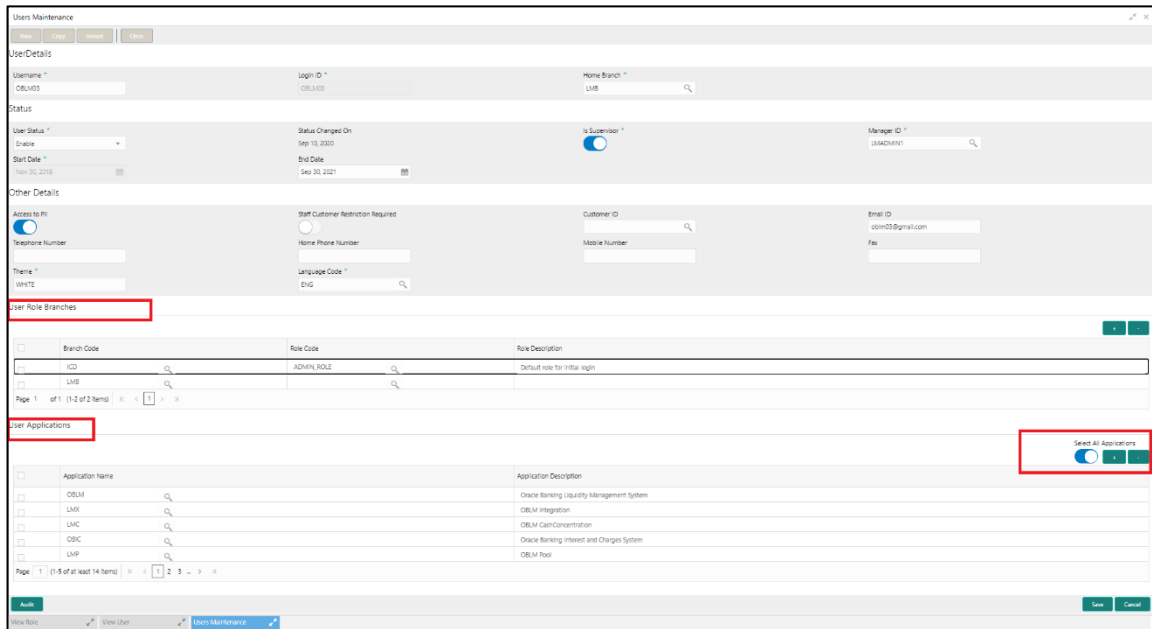
NOTE: Make sure that the required Role and User Applications are mapped to the user.

5.2.1 First level issues

This subsection describes the possible issues that may occur during the basic investigation.

5.2.1.1 Error Message not shown

If there is any improper calls, check ERTB_MSGS table of the respective schema to understand the cause of the error. Open the Networks tab (F12), check the error code in the response.

SELECT * FROM ERTB_MSGS WHERE ERR_CODE='GCS_AUTH-03'

Figure 15: Error Message not shown

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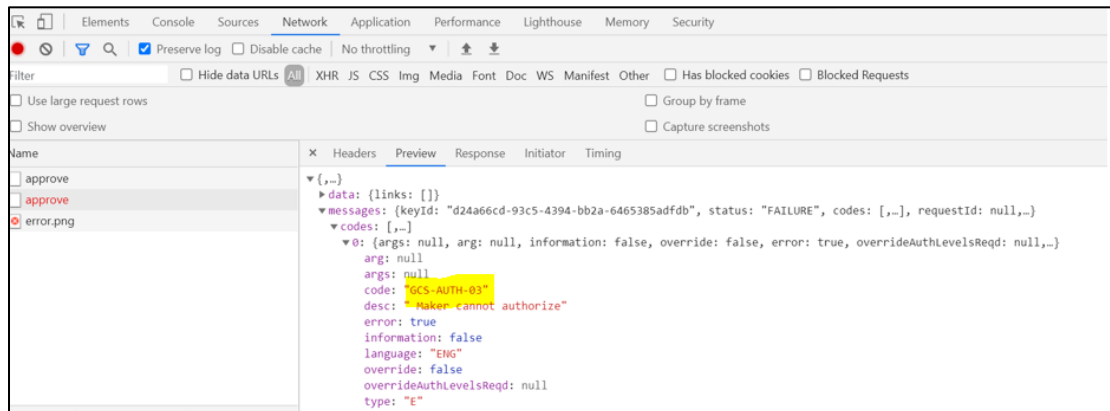
5.2.1.2 Setting Log file path

Log generation path needs to be defined in **PLATO_LOGGER_PARAM_CONFIG** table of PLATO schema.

SELECT * FROM PLATO_LOGGER_PARAM_CONFIG;

Figure 16: Setting Log file path

5.2.1.3 Dynamic log generation issues

For generating dynamic service logs, you need to insert data to **PLATO_DEBUG_USERS** table as shown in below screenshot.

SELECT * FROM PLATO_DEBUG_USERS;

Figure 17: Dynamic log generation issues

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NOTE: Login to WINSCP and check server logs. Log files for each service will be generated based on the user_id, branch_code and date at the path provided in the plato_logger_param_config table.

Figure 18: Server logs

5.2.1.4 Call is failing in Gateway

If any API call is failing in Gateway, hit the same API endpoint without passing through api-gateway via postman.

Figure 19: Call is failing in Gateway

NOTE: Restart the specific services if required.

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5.2.1.5 In case Logs are not generated

If you are not getting logs, put the loggers across API, hit through postman, and test again.

Figure 20: Logs
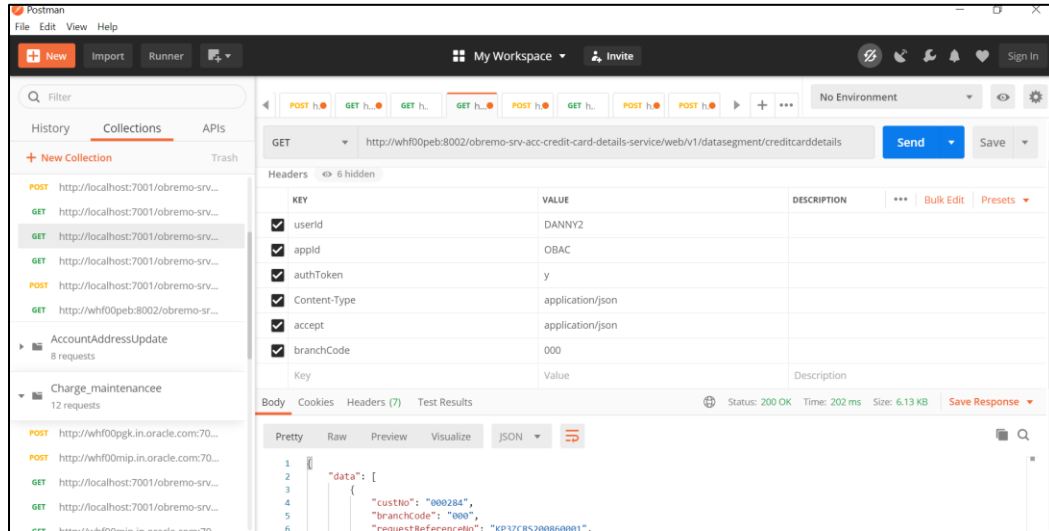
5.2.1.6 Code error in GCS side

If there is any error in GCS side codes, use java de-complier to debug the error.

5.2.1.7 404 error

The possible causes for 404 error are as follows:

- Check service is not running on Eureka

- Check if service is deployed in Weblogic

5.2.1.8 500 internal error

The possible causes for 500 internal error are as follows:

- Issue with Plato entries

- Issue with Eureka

- Service may not be up

- Issue with any peace of code

The server side debugging is needed for the above-mentioned issues, if it is not captured in logs.

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5.2.2 Transaction data verification

Follow the best practices mentioned below to avoid getting any errors:

- In the **IN** request and **OUT** response, verify that all the field data is going to service side.

- If there is any error related to SMS, check for the availability of SMS entries.

- Validate the endpoints and data.

- Validate the request headers passed during the API call.

- Verify that the data entered in the screen is accurate. For example, **Account Number** should be valid.

Figure 21: Account Number

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5.3 Payment Service Integration Troubleshooting

The section describes the possible issues that may occur in payment service integration. The possible issues and causes are described in the following subsections:

- 5.3.1 Balance Fetch (FCUBS) is failing
- 5.3.2 Accounting call (FCUBS) is failing
- 5.3.3 OBPM call is failing

5.3.1 Balance Fetch (FCUBS) is failing

If Balance Fetch call (FCUBS) is failing, check the lmx_tb_messageLlog table for the request and response xml. Execute the following query to verify results:

SELECT * FROM LMX_TB_MESSAGE_LOG WHERE EXTSYSLOG_ID IN (SELECT ID FROM LMX_TB_EXTERNAL_SYSTEM_LOG WHERE STRUCTURE_ID = 'ST2021218141725' and METHOD_NAME='BALANCEREQ') AND MSG_LOGDATE='23-FEB-21'

Figure 22: Balance Fetch (FCUBS) is failing

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5.3.2 Accounting call (FCUBS) is failing

If accounting call (FCUBS) is failing, check the LMX_TB_MESSAGE_LOG table for the request and response xml. Execute the following query to verify results:

SELECT * FROM LMX_TB_MESSAGE_LOG WHERE EXTSYSLOG_ID IN (SELECT ID FROM LMX_TB_EXTERNAL_SYSTEM_LOG WHERE STRUCTURE_ID = 'ST2021218141725' and METHOD_NAME=' FCUBSIFSERVICEFSFS') AND MSG_LOGDATE='23-FEB-21'

Figure 23: Account calling (FCUBS) is failing

5.3.3 OBPM call is failing

If OBPM call is failing, check the LMX_TB_MESSAGE_LOG table for the request and response xml. Execute the following query to verify results:

SELECT * FROM LMX_TB_MESSAGE_LOG WHERE EXTSYSLOG_ID IN (SELECT ID FROM LMX_TB_EXTERNAL_SYSTEM_LOG WHERE STRUCTURE_ID = 'ST2021218141725' AND MET

5.4 Troubleshooting SMS Errors

The possible issues occur in Security Management System are mentioned below.

- Unable to login after launching the application

- Menus are not displayed after logging in

5.5 Oracle Banking Routing Hub configuration

Refer to **Routing Hub Configuration User Guide** for the detailed explanation.

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6   Troubleshooting OutOfMemory issues

6.1   Extracting Heapdump

If there is an error like GC Overhead limit exceeded or OutOfMemoryException is thrown while starting the services, the following details need to be shared.

6.1.1   Heap Dump

A heap dump is a snapshot of objects that are in memory in the JVM at a certain timestamp in a transaction. Heap dumps help to troubleshoot memory-leak problems and optimize memory usage in microservices. Heap dumps are usually stored in binary format hprof files.

The HeapDumpOnOutOfMemoryError command-line option that generates a heap dump when a java.lang.OutOfMemoryError is thrown can be used to generate heap dumps:

java -XX:+HeapDumpOnOutOfMemoryError -XX:HeapDumpPath=<file-or-dir-path>

6.1.1.1   Remote Heap Monitor setup

Alternatively, one can setup remote heap monitor to observe the memory leaks in the product. Perform the following steps:

1. To enable jmx, set the following environment variable to start jmx:

    - *-Dcom.sun.management.jmxremote*

    - *-Dcom.sun.management.jmxremote.port=8888*

    - *-Dcom.sun.management.jmxremote.authenticate=false*

    - *-Dcom.sun.management.jmxremote.ssl=false*

        NOTE: If the above variable are set, a jmx service will start on specified port.

2. Setup JVisualVM as follows, to collect heap dumps:

    a)   Start *JVisualVM.*

    b)   Under "Remote" option, add a host.

    c)   Under new host, add new *jmx* connection.

        NOTE: With this setup, the JAVA process can be monitored remotely.

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3. Specify the memory (which needs to be increased) according to requirement in 512, 1024, 2048 etc., and restart the managed server to fix the issue.

Figure 26: Memory Requirements

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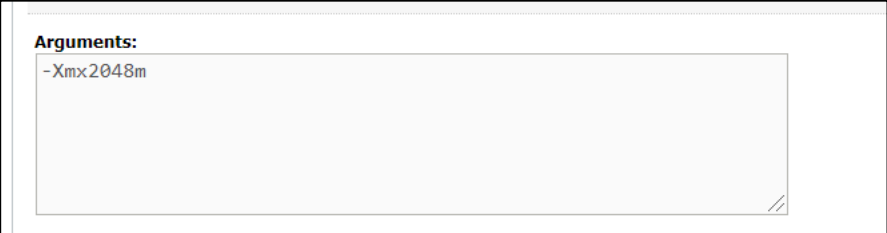
7 Business Error Codes

This section lists the possible error codes that you might receive and possible solutions.

Table 4: Error codes and Descriptions

Error code	Description	Type [E-Error, W-Warning, I-Information]
GCS-AUTH-01	Record Successfully Authorized	I
GCS-AUTH-02	Valid modifications for approval were not sent. Failed to match	E
GCS-AUTH-03	Maker cannot authorize	E
GCS-AUTH-04	No valid unauthorized modifications found for approval.	E
GCS-CLOS-002	Record Successfully Closed	I
GCS-CLOS-01	Record Already Closed	E
GCS-CLOS-02	Record Successfully Closed	I
GCS-CLOS-03	Unauthorized record cannot be closed, it can be deleted before first authorization	E
GCS-COM-001	Record does not exist	E
GCS-COM-002	Invalid version sent, operation can be performed only on latest version	E
GCS-COM-003	Please Send Proper ModNo	E
GCS-COM-004	Please send makerId in the request	E
GCS-COM-005	Request is Null. Please Resend with Proper Values	E
GCS-COM-006	Unable to parse JSON	E
GCS-COM-007	Request Successfully Processed	I
GCS-COM-008	Modifications should be consecutive.	E
GCS-COM-009	Resource ID cannot be blank or "null".	E
GCS-COM-010	You have successfully cancelled $1.	I
GCS-COM-011	Argghhh, $1 failed to update.	E
GCS-DEL-001	Record deleted successfully	I

GCS-DEL-002	Record(s) deleted successfully	I
GCS-DEL-003	Modifications didnt match valid unauthorized modifications that can be deleted for this record	E
GCS-DEL-004	Send all unauthorized modifications to be deleted for record that is not authorized even once.	E
GCS-DEL-005	Only Maker of first version of record can delete modifications of record that is not once authorized.	E
GCS-DEL-006	No valid unauthorized modifications found for deleting	E
GCS-DEL-007	Failed to delete. Only maker of the modification(s) can delete.	E
GCS-MOD-001	Closed Record cannot be modified	E
GCS-MOD-002	Record Successfully Modified	I
GCS-MOD-003	Record marked for close, cannot modify.	E
GCS-MOD-004	Only maker of the record can modify before once auth	E
GCS-MOD-005	Not amendable field, cannot modify	E
GCS-MOD-006	Natural Key cannot be modified	E
GCS-MOD-007	only the maker can modify the pending records.	E
GCS-OPEN-01	Teller Batch Record Already Opened	E
GCS-OPEN-01	Record Already Opened	E
GCS-REOP-003	Successfully Reopened	I
GCS-REOP-004	Unauthorized record cannot be reopened, record should be closed and authorized	E
GCS-REOP-01	Unauthorized Record cannot be Reopened	E
GCS-REOP-02	Failed to Reopen the Record, cannot reopen Open records	E
GCS-REOP-03	Successfully Reopened	I
GCS-SAV-001	Record already exists	E
GCS-SAV-002	Record Saved Successfully.	I
GCS-SAV-003	Congratulations!! The record is saved and validated successfully.	I

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GCS-SAV-004	Currency Code should be unique	E
GCS-SAV-005	Min cash holding should be lesser than Max cash holding	E
GCS-VAL-001	Congratulations!! Your record is successfully validated.	I
ST-SAVE-027	Request Successfully Processed	I
CC-HST-001	Active $1 exist for the Host Code	E
CC-MOD-001	$1 cannot be modified	E
CC-MOD-INV	$1 is invalid	E
CMC-LOV-007	Invalid Limit Currency	E
CMC-LOV-011	Invalid Version	E
CC-ACC-002	Currency should be null for Multi-Currency Account	E
CC-ACC-102	Record already exist for Source Branch and Source Account No combination	E
CC-ACC-169	Reopen not allowed for a closed Customer No	E
CC-EC-002	Record already exist for Account IBAN	E
CC-NUL-001	$1 cannot be null	E
CMC-ACC-FOR01	Cannot reopen forgotten account	E
CMC-ACC-PII01	User doesnt have access to PII data, cannot perform create or modify operations	E
CC-01015	Default BIC Is Checked For More Than One BIC	E
CC-01016	Swift Address is Mandatory	E
CC-01017	Default BIC Is Not Checked For any BIC	E
CC-01018	Same Swift Address is present more than once	E
CC-01019	Mismatch in bank code	E
CC-BNK-001	Branch code is in Open status. Close not allowed.	E
CC-BNK-002	Reopen not allowed for a closed Branch Code	E
CC-BNK-003	Only one Bank Code is allowed.	E
CC-BRN-101	Active account/accounts exist for the branch code. Close not allowed.	E

CC-BRN-102	This is HO branch. Close not allowed.	E
CC-CUS-17	Kindly Enter a Valid Walkin Customer	E
CMC-BRN-100	Branch Status retrieved Successfully	I
CMC-BRN-101	Branch does not exist	E
CMC-BRN-CD01	Date changed successfully	I
CMC-BRN-CD02	Failed to change date, holiday list not maintained properly	E
CMC-BRN-EOD01	Branch Status not in TI, cannot initiate EOD	E
CMC-BRN-EOD02	EOD invoked for the branch	I
CMC-BRN-EOD03	Invalid Branch Code	E
CMC-BRN-EOD04	Eod Requested on Date is not Branch's Today	E
CMC-BRN-EOD05	EOD cannot be invoked on a holiday	E
CMC-BRN-EOD06	Date changed successfully	I
CMC-BRN-EOD07	EOD not invoked, cannot initiate change date	E
CMC-BRN-EOD08	EOFI job not completed, cannot initiate change date	E
CMC-BRN-EOD09	EOD not invoked, cannot initiate mark TI	E
CMC-BRN-EOD10	Date Change job not completed, cannot initiate TI for next day	E
CMC-BRN-EOD11	Mark TI successful	I
CMC-BRN-EOD12	Branch status not in TI, cannot initiate MarkEOFI	E
CMC-BRN-EOD13	Branch status not in EOFI, cannot change Date	E
CMC-BRN-EOD14	Branch status for next working date update to BOD	I
CMC-BRN-EOD15	Branch status not in BOD, cannot mark TI	E
CMC-BRN-EOD16	Branch status for next working date update to TI	I
CMC-BRN-EOD17	Branch Status Changed to EOFI	I
CMC-BRN-EOD18	Invoke Mark TI failed	E
CMC-BRN-EOD19	Date change completed cannot retrigger	E
CMC-BRN-EOD20	Mark TI completed cannot retrigger	E

CMC-BRN-EOD21	Date changed failed	E
CMC-BRN-EOD30	Invalid requested date, failed to parse	E
CMC-BRN-EOD31	Mark Eoti retry initiated	I
CMC-BRN-EOD32	Cannot retry Mark EOFI which has not failed	E
CMC-BRN-EOD33	Date Changed successfully. $1	E
CMC-BRN-EOD34	BOD Batches completed successfully.	I
CMC-BRN-EOD35	BOD Batches retriggered successfully. $1	E
CMC-BRN-EOD36	$1. Hence EOFI Failed.	E
CC-CUS-167	Record already exist for customer no and source_system_cust_no combination	E
CC-CUS-169	Active account/accounts exist for the customer no	E
CMC-CUS-FOR01	Record successfully deleted	I
CMC-CUS-PII01	User doesnt have access to PII data, cannot perform create or modify operations	E
CMC-FORC-001	Request is null, not valid.	E
CMC-FORC-002	Forget customers request created successfully.	I
CMC-FORC-003	Failed to create forget entities request.	E
CMC-FORC-004	Invalid id sent, id null	E
CMC-FORC-005	Already authorized	E
CMC-FORC-006	Authorized successfully	I
CMC-FORC-007	Record not found, invalid id.	E
CMC-FORC-008	Cannot delete authorized record	E
CMC-FORC-009	Record successfully deleted	I
CMC-FORC-010	Invalid Customer $1 added, customer should be valid and in closed and authorized state without pending maintenance	E
CMC-FORC-011	Invalid request. Duplicate requests for customer number $1	E
ST-CUS-167	Record already exist for customer no and source_system_cust_no combination	E
CMC-CCY-001	Duplicate records exists in Amount word currency Mapping	E

CMC-CCY-002	Duplicate records exists in Amount Text Mapping	E
CMC-CCY-003	Cannot change Currency Decimal for once authorized currencies	E
CMC-CCY-004	Cannot Change round unit if the round rule is Truncate (T)	E
CMC-CCY-005	Mandatory field Interest Method is not entered	E
CMC-CCY-006	Mandatory field Spot Days is not entered	E
CMC-CCY-007	Mandatory field Settlement Days is not entered	E
CMC-CCY-008	Mandatory field Country is not entered	E
CMC-CCY-009	Mandatory field Rule is not entered	E
CMC-CCY-010	Value should be in range of 0 and 999 for Settlement Days	E
CMC-CCY-011	Mandatory field Unit is not entered	E
CMC-CCY-012	Decimals/ Rounding Unit Mismatch	E
CMC-CCY-013	Numerator of Interest Method is not Actual	E
CMC-CCY-014	Duplicate Alternate Currency Code	E
CMC-CCY-015	Duplicate ISO Numeric Currency Code	E
CMC-CCY-016	Duplicate Euro currency	E
CMC-CCY-017	Euro Conversion required cannot be changed for the currency types out, Euro and Euro closed	E
CMC-CCY-018	Spot days is less than x netting days	E
CMC-CCY-019	Currency Cut Off days cannot be greater than spot days for currency	E
CMC-CCY-020	Spot Days for currency cannot be lesser than cut off days for currency	E
CMC-CCY-021	Value should be in range of 1 and 99 for Cut Off Days	E
CMC-CCY-022	Value should be in range of 1 and 23 for Cut Off Hour	E
CMC-CCY-023	Value should be in range of 1 and 59 for Cut Off Min	E
CMC-CCY-024	Value cannot be less than .00000 for Currency Total limit	E

CMC-CCY-025	Value should be in range of 0 and 3 for Currency Decimal	E
CMC-CCY-026	Country Code is Mandatory	E
CMC-CCY-027	Duplicate records exists in Currency Country Mapping	E
CMC-CCY-028	Mandatory field Country is not entered in Currency Country Mapping	E
CMC-CCY-029	Currency Code is NULL	E
CMC-CCY-030	Date is NULL	E
CMC-CCY-031	Date is Invalid (should be in yyyy-mm-dd format)	E
CMC-CCY-032	No record found	E
CMC-CCY-033	Next/Previous indicator is NULL (should be either N or P)	E
CMC-CCY-034	Next/Previous indicator is Invalid (should be either N or P)	E
CMC-CCY-035	Lower Limit Date is Invalid (should be in yyyy-mm-dd format)	E
CMC-CCY-036	Upper Limit Date is Invalid (should be in yyyy-mm-dd format)	E
CMC-CCY-037	Offset is NULL	E
CMC-CCY-038	Offset is Invalid (should be > 0)	E
CMC-CCY-039	Input date should be between Upper limit date and Lower limit date	E
CMC-CCY-040	Duplicate records exists in CurrencyHolidays	E
CMC-CCY-041	Mandatory Through Currency Code is not entered	E
CMC-CCY-042	Cannot change spread definition option for through currency pair	E
CMC-CCY-043	Through currency should be blank if the through currency is unchecked	E
CMC-CCY-044	Through currency has to be of type Euro	E
CMC-CCY-045	Through Currency is not allowed for Euro In Currency Pair	E
CMC-CCY-046	Points multiplier should be in the range 0 - 1	E

CMC-CCY-047	MidRate is invalid	E
CMC-CCY-048	BuySpread is invalid	E
CMC-CCY-049	SaleSpread is invalid	E
CMC-CCY-050	Atleast one Currency Rate Should be Maintained	E
CMC-CCY-051	Duplicate records exists in Rate	E
CMC-CCY-052	Currency Code is NULL	E
CMC-CCY-053	Currency Code is Empty	E
CMC-CCY-054	Amount is NULL	E
CMC-CCY-055	Option is NULL	E
CMC-CCY-056	Option is Empty	E
CMC-CCY-057	Method is NULL	E
CMC-CCY-058	Method is Empty	E
CMC-CCY-059	Decimal is NULL	E
CMC-CCY-060	Units is NULL	E
CMC-CCY-061	Maintenance Country is NULL	E
CMC-CCY-062	Maintenance Country is Empty	E
CMC-CCY-063	Currency1/Currency2/branch Code is NULL	E
CMC-CCY-065	Error in conversion	E
CMC-CCY-066	Rate is not handled for currency1 and currency2	E
CMC-CCY-067	Rate is not handled for currency2 and currency1	E
CMC-CCY-068	Error in Amount rounding	E
CMC-CCY-069	Currency definition is not maintained for given currency and maintenance country	E
CMC-CCY-070	Error in getting branch currency and country	E
CMC-CCY-071	Error in getting currency pair for currency1 and currency2	E
CMC-CCY-072	Error in getting Premium points for currency1 and currency2	E
CMC-CCY-073	Error in getting rate with through currency	E
CMC-CCY-074	Error in getting Rate	E

CMC-CCY-075	Rate History is not handled for currency1 and currency2	E
CMC-CCY-076	Rate History is not handled for currency2 and currency1	E
CMC-CCY-077	Currency Pair is not maintained	E
CMC-CCY-078	Error in purging	E
CMC-CCY-079	Data inadequate in currency Pair Definition	E
CMC-LOV-002	Invalid Currency	E
CMC-LOV-003	Cannot Close the record for which rates are maintained	E
CMC-LOV-004	Invalid Language Code	E
CMC-LOV-005	Invalid Country	E
CMC-LOV-006	Invalid GLCode	E
CMC-LOV-008	Invalid Year	E
CMC-LOV-009	Invalid Month	E
CMC-LOV-010	Amount Limit Exceeds	E
CMC-LOV-012	Rate Type $1 is invalid	E
CC-ECA-001	Active $1 exist for the Source System	E
CMC-LOV-001	Invalid Source Code	E
CC-BIC-010	Bic code is being used in branch maintenance. Close not allowed.	E
CC-BIC02	The BIC code does not conform to SWIFT standards	E
CC-BIC05	Record already maintained for the customer no	E
CC-C00100	Relationship cannot be No for a Customer Linked BIC Code	E
SW-ERR-001	Sweep not allowed at System level	I
SW-ERR-002	Structure is not active or paused	I
SW-ERR-003	Header account is not active	I
SW-ERR-004	Sweep already pending for structure	I
SMS-LOV-001	Invalid Home Branch	E

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CMC-VAM-001	Rolled Back Due to Exception	E
ACCPROD-ERR-01	Unhandled Exception occurred	E
ACCPROD-ERR-02	Invalid Product Accounting entry setup	E
IC-ACCERR-01	Branch Dates could not be resolved	E
IC-ACCERR-02	Failed while fetching user globals	E
IC-ACCERR-03	Could not get account	E
IC-ACCERR-04	Failed during Lookup	E
IC-ACCERR-05	Unhandled exception occurred during Lookup	E
IC-ACCERR-06	Bombed while converting the amount	E
IC-ACCERR-11	Unhandled Exception occurred	E
IC-CHGERR-01	Failed while fetching user globals	E
IC-CHGERR-02	Branch Dates could not be resolved	E
IC-CHGERR-03	Could not get account	E
IC-CHGERR-04	Could not get account	E
IC-CHGERR-05	Error Occurred during Initialization	E
IC-CHGERR-06	Bombed while converting the amount	E
IC-CHGERR-07	Failed while deriving charge amount	E
IC-CHGERR-08	Failed while deriving min/max amount	E
IC-CHGERR-09	Failed during LCY Conversion	E
IC-CHGERR-10	Failed While Caching Details for Charge Slab	E
IC-CHGERR-11	Problem as both discount amt and discount percentage maintained	E
IC-CHGERR-12	Failed while fetching Slab Details	E
IC-CHGERR-13	Failed while fetching Tier Details	E
IC-CHGERR-14	Failed during amount round	E
IC-CHGERR-17	Failed while fetching product details	E
IC-CHGERR-19	Failed during currency conversion	E
IC-CHGERR-23	Failed while fetching Charge Entries	E
IC-CHGERR-24	Failed while Processing Charge	E

IC-CHGERR-25	Failed while updating liqd dates	E
IC-CHGERR-28	Could not get the book type	E
CS-PRD002	Product code cannot be null	E
MM-10051	Product Code should be 4 characters	E
BC-00234	Product End Date cannot be less than today	E
IC-PRD061	Frequency is blank in product preferences	E
IC-PRD054	Value of Accrual Day should be less than or equal to 31	E
IC-PRCBT002	To Period should be greater than From Period	E
IC-PRD201	Interest liquidation frequency has to be monthly and Liquidation at Month End flag has to be checked if the Split Interest Adj for Prev Year is required	E
IC-PRD062	IC Branch Date not available for the current branch	E
IC-BRNC-01	Invalid Branch Parameter	E
IC-RLM069	Length of Rule Id should be equal to 4 characters	E
IC-RL0007	Rule Id has invalid characters	E
IC-RL0008	Blank characters are not allowed in Rule Id	E
IC-RL0009	Rule Id - First character should be an alphabet or underscore	E
IC-RLM061	Accruals Required should be Unchecked when Book FLag is "Non-Booked" and periodicity is "Daily/Periodic"	E
IC-RLM060	Rounding Required should be checked when Book FLag is "Booked" and periodicity is "Daily/Periodic"	E
IC-RL0056	Required atleast one booked formula to save the rule	E
IC-RL0048	Requires atleast one formula with a valid expression for a rule	E
IC-RLM044	Result cannot have logical operator	E
IC-RLM016	SDE Id and UDE Id should be different	E

CMC-ACC-SUBAC01	No SubAccounts available for Multi-Currency Account	E
CMC-ACC-SUBAC02	Exactly one account should be primary account	E
CMC-ACC-SUBAC03	Sub Accounts should have unique currency code	E
ACC_PRD-01	Unhandled Exception occurred	E
ACC_PRD-02	Invalid Product Accounting entry setup	E
ACC_PRD-03	Product code cannot be null	E
ACC_PRD-04	IC Branch Date not available for the current branch	E
GC-CLS-02	Record Successfully Closed	I
GC-REOP-03	Successfully Reopened	I
IC-ACC-01	Branch Dates could not be resolved	E
IC-ACC-02	Failed while fetching user globals	E
IC-ACC-03	Could not get account	E
IC-ACC-04	Failed during Lookup	E
IC-ACC-05	Unhandled exception occurred during Lookup	E
IC-ACC-06	Bombed while converting the amount	E
IC-ACC-07	Unhandled Exception occurred	E
IC-CHGERR01	Failed while fetching user globals	E
IC-CHGERR02	Branch Dates could not be resolved	E
IC-CHGERR03	Could not get account	E
IC-CHGERR04	Could not get account	E
IC-CHGERR05	Error Occurred during Initialization	E
IC-CHGERR06	Bombed while converting the amount	E
IC-CHGERR07	Failed while deriving charge amount	E
IC-CHGERR08	Failed while deriving min/max amount	E
IC-CHGERR09	Failed during LCY Conversion	E
IC-CHGERR10	Failed While Caching Details for Charge Slab	E
IC-CHGERR11	Problem as both discount amt and discount percentage maintained	E

IC-CHGERR12	Failed while fetching Slab Details	E
IC-CHGERR13	Failed while fetching Tier Details	E
IC-CHGERR14	Failed during amount round	E
IC-CHGERR17	Failed while fetching product details	E
IC-CHGERR19	Failed during currency conversion	E
IC-CHGERR23	Failed while fetching Charge Entries	E
IC-CHGERR24	Failed while Processing Charge	E
IC-CHGERR25	Failed while updating liqd dates	E
IC-CHGERR28	Could not get the book type	E
IC-RULE-01	SDE Id and UDE Id should be different	E
IC-RULE-02	Result cannot have logical operator	E
LMB-ACC-001	Account $1 uploaded successfully.	I
LMB-ACC-002	Error while authorizing Core Account	E
LMB-ACC-003	Error while saving core Account	E
LMB-ACC-004	Uploaded File $1 moved successfully to Archival directory	I
LMB-ACC-005	Account Name is null	E
LMB-ACC-006	Account authorized and uploaded successfully	I
LMB-ACC-007	Error while authorizing LM Account	E
LMB-ACC-008	Error while saving LM Account	E
LMB-ACC-009	Account Number is null	E
LMB-ACC-010	Balance saved successfully for $1 ~ $2 ~ $3	I
LMB-ACC-011	Host Code is null	E
LMB-BAT-001	Failed to update status of batch.	E
LMB-BAT-002	No content in the uploaded file.	E
LMB-BAT-003	Batch Data Next Run date failed.	E
LMB-BAT-004	No file present in the given path.	E
LMB-BAT-005	Uploaded File $1 moved successfully to Archival directory.	I
LMB-BAT-006	Error while moving file $1 to Archival directory.	E

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LMB-BAT-007	File Not found in the folder.	E
LMB-BAT-008	ValueDate is null.	E
LMB-BAT-009	ValueDate should be in yyyy-MM-dd format.	E
LMB-BAT-010	File Upload failed.	I
LMB-BAT-011	File Uploaded successfully.	I
LMB-BAT-012	Batch Data Next Run date updated.	I
LMB-BIC-001	Bank Record Authorized successfully in Core bank and Oracle Banking Liquidity Management for $1.	I
LMB-BIC-002	Error in Bank record saving.	E
LMB-BIC-003	Bic Code $1 uploaded successfully	I
LMB-BIC-004	Error while authorizing BicDirectory.	E
LMB-BIC-005	Error while saving BicDirectory.	E
LMB-BIC-006	Bic Code $1 Modified successfully.	E
LMB-BIC-007	Error while modify, authorizing BicDirectory.	E
LMB-BIC-008	Error while modifying BicDirectory	E
LMB-BIC-009	Bic Code $1 Closed successfully.	E
LMB-BIC-010	Error while close authorizing BicDirectory $1	E
LMB-BIC-011	Error while Closing BicDirectory.	E
LMB-BIC-012	Bic Code $1 Unchanged successfully	E
LMB-BOD-001	BOD initiated for branch:- $1	I
LMB-BOD-002	Failed to initiated BOD - BOD for branch is already in progress.	E
LMB-BOD-003	Failed to initiated BOD - BOD for branch is already executed for day.	I
LMB-BOD-004	Failed to initiated BOD - DATEFLIP for branch is not executed.	E
LMB-BOD-005	Failed to initiated BOD - EOD for branch is in progress.	E
LMB-BOD-006	Failed to initiated BOD - Not a valid Branch.	E
LMB-BOD-007	Failed to initiated BOD	E

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LMB-BRAN-001	Branch Record Authorized successfully in Core Branch and Oracle Banking Liquidity Management for $1	E
LMB-BRAN-002	Error in Branch core record saving	E
LMB-BRAN-003	Please mention date in the format - MM/dd/yyyy	I
LMB-BRAN-004	Error in Branch record saving	E
LMB-BRAN-005	Branch Holiday uploaded successfully	E
LMB-BRAN-006	Error while authorizing Branch Holiday.	E
LMB-BRAN-007	Error while saving Branch Holiday	E
LMB-BRAN-008	Year is null	E
LMB-BRAN-009	Holidays is nul1	E
LMB-BRAN-010	Branch Code does not exist.	E
LMB-BRAN-011	Branch Code is null	E
LMB-CTRY-001	Country uploaded successfully.	I
LMB-CTRY-002	Error while authorizing LM Country	E
LMB-CTRY-003	Error while saving LM Country	E
LMB-CTRY-004	Error while authorizing Core Country.	E
LMB-CTRY-005	Error while saving Core Country	E
LMB-CTRY-006	Country Code is null	E
LMB-CTRY-007	Description is null	E
LMB-CTRY-008	IBAN Check is null	E
LMB-CUR-001	Currency CutOff record authorized Successfully in Oracle Banking Liquidity Management	I
LMB-CUR-002	Error in Currency cutoff saving	E
LMB-CUR-003	Currency record authorized Successfully in Oracle Banking Liquidity Management and Common Core for $1	I
LMB-CUR-004	Error in Currency Definition saving	E
LMB-CUR-005	Error in Currency Core record saving.	E
LMB-CUR-006	Error in Currency saving	E

LMB-CUR-007	Currency Holiday uploaded successfully	I
LMB-CUR-008	Error while authorizing Currency Holiday	E
LMB-CUR-009	Error while saving Currency Holiday	E
LMB-CUR-010	Currency Exchange Rate uploaded successfully	E
LMB-CUR-011	Error while authorizing Currency Exchange Rate	E
LMB-CUR-012	Error while saving Currency Exchange Rate	E
LMB-CUR-0013	Currency 1 is null	E
LMB-CUR-014	Currency 2 is null	E
LMB-CUR-015	Currency Code is null	E
LMB-CUST-001	Customer uploaded successfully	I
LMB-CUST-002	Error while authorizing LM Customer	E
LMB-CUST-003	Error while saving LM Customer	E
LMB-CUST-004	Error while authorizing Core Customer	E
LMB-CUST-005	Error while saving Core Customer	E
LMB-CUST-006	Customer Number is null	E
LMB-CUST-007	Customer Name is null	E
LMB-CUST-008	Source System is null	E
LMB-CUST-009	Customer Id does not exist	E
LMB-CUST-010	Parent Customer $1 does not exist	E
LMB-CUST-011	Customer authorized and uploaded successfully	I
LMB-EOD-001	Failed to initiated EOD - There are Pending Maintenances for Authorization.	E
LMB-EOD-002	Failed to initiated EOD - Branch Contains Sweeps with Pending status.	E
LMB-EOD-003	Failed to initiated EOD - EOD for branch is already completed.	E
LMB-EOD-004	Failed to initiated EOD - EOD for branch is already in progress.	E
LMB-EOD-005	Failed to initiated EOD - Not a valid Branch.	E
LMB-EOD-006	User does not have necessary role.	E

LMB-EOD-007	Failed to initiated EOD.	E
LMB-EOD-008	EOD Post IC initiated for branch:- $1.	I
LMB-EOD-009	Failed to initiated EOD Post IC - EOD Post IC for branch is already completed.	E
LMB-EOD-010	Failed to initiated EOD Post IC - EOD Post IC for branch is already in progress.	E
LMB-EOD-011	Failed to initiated EOD Post IC - EOD Pre IC for branch is not completed.	E
LMB-EOD-012	Failed to initiated EOD Post IC.	E
LMB-EOD-013	Date Flip for branch completed:- $1	I
LMB-EOD-014	Failed to initiated Date Flip.	E
LMB-EOD-015	Failed to initiated Date Flip - EOD Post IC for branch is not completed.	E
LMB-EOD-016	Failed to initiated Date Flip - Not a valid Branch.	E
LMB-INT-001	Interface record Authorized Successfully for $1.	I
LMB-INT-002	External System Id not found for $1	E
LMB-INT-003	Error in Interface saving.	E
LMB-SWP-001	Sweep Instruction saved and uploaded successfully.	E
LMB-SWP-002	Sweep Instruction Record authorized successfully.	E
LMB-EOD-017	EOD initiated for branch :- $1.	I
LMB-EOD-018	Failed to initiated EOD - BOD for branch not completed.	E
LMX-INGT-001	Account Pair Record Already Exists.	E
LMX-INGT-002	Message already procesed for external reference $1.	E
LMX-INGT-003	Account Updated Successfully.	E
LMM-ACC-001	Account Status is Mandatory!!!	E
LMM-ACC-002	Account Category is Mandatory!!!	E
LMM-ACC-003	Account Record Created in IC and Authorized successfully	I

LMM-ACC-004	Account Record Authorized successfully but failed to create in IC	E
LMM-ACC-005	Account Record Authorized successfully	I
LMM-ACC-006	Account Category validation Failed	E
LMM-ACC-007	Account Status validation Failed	E
LMM-ACC-008	Branch Validation Failed	E
LMM-ACC-009	Account Group Code Not available	E
LMM-ACC-010	Account Number already exists	E
LMM-ACC-011	Customer Id not mapped with User	E
LMM-ACC-012	Customer Id not available	E
LMM-ACC-013	Account authorized in LM but Failure creating account in IC	E
LMM-ACC-014	Record Successfully Modified and Authorized	I
LMM-ACC-015	Failure Authorizing account	E
LMM-ACC-016	Account Updated Successfully	I
LMM-ACC-017	Account Balances Updated Successfully	I
RMLINK-COM-001	User cannot create/modify own records.	E
LMP-POOL-001	Pool not allowed at System level	I
LMP-POOL-002	No Structure exists with given Structure Id	E
LMP-POOL-003	Pool Initiated for structure	I
LMP-POOL-004	Pool Initiated for Branch	I
LMP-POOL-005	Reallocation Initiated for structure	I
LMP-POOL-006	Reallocation executed for Structures	I
RTL-ERR-001	RTL Structure for account does not exist.	E
LMA-STR-001	Structure Validation Successful!!!	I
LMA-STR-002	Error in Structure Validation!!!	E
LMA-STR-003	Record Successfully Submitted and Authorized	I
LMA-STR-004	Failed to Auto Authorize Record	E
LMA-STR-005	Record Successfully Submitted	I
LMA-STR-006	Failed to Submit Record	E

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LMA-STR-007	Empty input data	E
LMA-STR-008	Account Category is mandatory $1	E
LMA-STR-009	No Header account exists for the structure	E
LMA-STR-010	No Child account exists for the structure	E
LMA-STR-011	Pool Structure Type cannot have Account Type as Sweep	E
LMA-STR-012	Sweep Structure Type cannot have Account Type as Pool	E
LMA-STR-013	Hybrid Structure Type should have both Account Type Pool and Sweep	E
LMA-STR-014	All Selected Accounts must be used in Structure!!!	E
LMA-STR-015	No Linked Account data	E
LMA-STR-016	Structure Status is Incomplete	E
LMA-STR-017	No account exists for the structure	E
LMA-STR-018	Interest Method should be I for sweep and hybrid structure	E
LMA-STR-019	Effective Date should be before than end date	E
LMA-STR-020	Central Account Details should be specified for structure having reallocation method as Central Distribution	E
LMA-STR-021	Central Account is not active	E
LMA-STR-022	Central Account does not exist in Oracle Banking Liquidity Management $1	E
LMA-STR-023	Structure Id or version no is null $1	E
LMA-STR-024	Structure Type is null	E
LMA-STR-025	Structure Status is null	E
LMA-STR-026	Structure Description is null	E
LMA-STR-027	Structure Effective Date is null	E
LMA-STR-028	Structure End Date is null	E
LMA-STR-029	Structure Priority is null	E
LMA-STR-030	Structure Source is null	E
LMA-STR-031	Structure Post Sweep Balance is null	E

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LMA-STR-032	Structure Interest Method is null	E
LMA-STR-033	Structure Balance Type is null	E
LMA-STR-034	Structure FX Rate Pick up is null	E
LMA-STR-035	Account is not active $1	E
LMA-STR-036	Account is not active or does not exist in Oracle Banking Liquidity Management $1	E
LMA-STR-037	Child Account $1 customer $2 is not child of Parent Customer	E
LMA-STR-038	Child account cannot be a Notional Account $1	E
LMA-STR-039	Parent Account cannot be an External Account $1	E
LMA-STR-040	Child of a Notional Account cannot be Sweep Type $1	E
LMA-STR-041	Pool type account cannot have instruction attached	E
LMA-STR-042	Pool type account cannot have payment instruction attached $1	E
LMA-STR-043	Sweep type account should have payment instruction attached $1	E
LMA-STR-044	Sweep Priority should be defined for Account Ref $1	E
LMA-STR-045	Reverse sweep Frequency should be assigned is reverse sweep is allowed $1	E
LMA-STR-046	Child Branch not available	E
LMA-STR-047	Parent Branch not available	E
LMA-STR-048	Child Bank not available	E
LMA-STR-049	Parent Bank not available	E
LMA-STR-050	Cross Border sweep is not allowed for account pair	E
LMA-STR-051	Domestic not allowed for account pair	E
LMA-STR-052	Cross Currency not allowed for account pair	E
LMA-STR-053	Parent Account Currency is null: $1	E
LMA-STR-054	Child Account Currency is null: $1	E
LMA-STR-055	Multi Bank $1 not allowed for account pair	E

LMA-STR-056	Multi Bank Pool is not allowed	E
LMA-STR-057	Frequency does not exist in system: $1	E
LMA-STR-058	MBCC cut off getting failed for account pair $1 for the frequency $1	E
LMA-STR-059	Header Account of a Pool or Hybrid Structure should be Notional Account $1	E
LMA-STR-060	Header Account of a Pool or Hybrid Structure should have reallocation method defined $1	E
LMA-STR-061	Acc Level is not correct for account number $1	E
LMA-STR-062	Account Sweep priority is same for account number $1	E
LMA-STR-063	Multiple Instruction frequency should be different $1	E
LMA-STR-064	System Branch does not exist in Oracle Banking Liquidity Management	E
LMA-STR-065	Error in Account Create/Auth	E
LMA-STR-066	Structure Created and Authorized Successfully $1	I
LMA-STR-067	Failed to authorize Structure $1	E
LMA-STR-068	Structure Created Successfully $1	I
LMA-STR-069	Failed to Create Structure $1	E
LMA-STR-070	Failed to Create Structure Id:- $1	E
LMA-STR-071	Customer not mapped with the user	E
LMA-STR-072	No Customer is mapped with the user	E
LMA-STR-073	data[0] may not be null	E
LMA-STR-074	No User Customer Linkage is available	E
LMA-STR-075	Error in Structure creation	E
LMA-STR-076	Failed to validate Structure Id $1 as customer mapping is not correct	E
LMA-STR-077	Structure Modified and Authorized Successfully - $1	I
LMA-STR-078	Structure Modified Successfully: $1	I
LMA-STR-079	Failed to Modify Structure: $1	E

LMA-STR-080	Failed to Modify Structure Id $1	E
LMA-STR-081	Failed to Modify Structure Id $1 as Previous Version of Structure is not available	E
LMA-STR-082	Error in Structure modify	E
LMA-STR-083	Next Run Date Updated..	I
LMA-STR-084	Account Record Authorized successfully.	I
LMA-STR-085	Account Record Not Authorized.	E
SW-ERR-005	Structure $1 does not exist or not active.	E
SW-ERR-006	No Structure selected.	E
SW-ERR-007	No Acc pair selected.	E
SW-ERR-008	Structure is not active:- $1	E
SW-ERR-009	Sweep Failed for Structures:- $1	E
SW-ERR-010	Sweep executed for Structures.	I
SW-ERR-011	Account Pair Record Already Exists.	E
SW-ERR-012	Structure Sweep Record Already Exists.	E
SW-ERR-013	User does not have necessary roles/activity assigned.	E
SW-ERR-014	Previous handoff is not completed for account pair $1	E
IC-PRCBT003	Liquidation Start Date cannot be null	E
SW-ERR-015	Sweep Failed- Account(s) in Structure is on Hold	E
LMC-ERR-001	Fixed amount should be maintained between the range of defined minimum and maximum amount	E
LMC-ERR-002	Instruction is assigned to structure(s). Failed to close	E
LMM-ACC-018	Account Record Modified in IC and Authorized successfully	I
LMM-ACC-019	Account Record Authorized successfully but failed to modify in IC	E
IC-ACC-04	Failed during Lookup	E
IC-ACC-05	Unhandled exception occurred during Lookup	E
IC-ACC-06	Bombed while converting the amount	E

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IC-ACC-07	Unhandled Exception occurred	E
IC-CHGERR01	Failed while fetching user globals	E
IC-CHGERR02	Branch Dates could not be resolved	E
IC-CHGERR03	Could not get account	E
IC-CHGERR04	Could not get account	E
IC-CHGERR05	Error Occurred during Initialization	E
IC-CHGERR06	Bombed while converting the amount	E
IC-CHGERR07	Failed while deriving charge amount	E
IC-CHGERR08	Failed while deriving min/max amount	E
IC-CHGERR09	Failed during LCY Conversion	E
IC-CHGERR10	Failed While Caching Details for Charge Slab	E
IC-CHGERR11	Problem as both discount amt and discount percentage maintained	E
IC-CHGERR12	Failed while fetching Slab Details	E
IC-CHGERR13	Failed while fetching Tier Details	E
IC-CHGERR14	Failed during amount round	E
IC-CHGERR17	Failed while fetching product details	E
IC-CHGERR19	Failed during currency conversion	E
IC-CHGERR23	Failed while fetching Charge Entries	E
IC-CHGERR24	Failed while Processing Charge	E
IC-CHGERR25	Failed while updating liqd dates	E
IC-CHGERR28	Could not get the book type	E
IC-RULE-01	SDE Id and UDE Id should be different	E
IC-RULE-02	Result cannot have logical operator	E
LMB-ACC-001	Account $1 uploaded successfully.	I
LMB-ACC-002	Error while authorizing Core Account	E
LMB-ACC-003	Error while saving core Account	E
LMB-ACC-004	Uploaded File $1 moved successfully to Archival directory	I
LMB-ACC-005	Account Name is null	E

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LMB-ACC-006	Account authorized and uploaded successfully	I
LMB-ACC-007	Error while authorizing LM Account	E
LMB-ACC-008	Error while saving LM Account	E
LMB-ACC-009	Account Number is null	E
LMB-ACC-010	Balance saved successfully for $1 ~ $2 ~ $3	I
LMB-ACC-011	Host Code is null	E
LMB-BAT-001	Failed to update status of batch.	E
LMB-BAT-002	No content in the uploaded file.	E
LMB-BAT-003	Batch Data Next Run date failed.	E
LMB-BAT-004	No file present in the given path.	E
LMB-BAT-005	Uploaded File $1 moved successfully to Archival directory.	I
LMB-BAT-006	Error while moving file $1 to Archival directory.	E
LMB-BAT-007	File Not found in the folder.	E
LMB-BAT-008	ValueDate is null.	E
LMB-BAT-009	ValueDate should be in yyyy-MM-dd format.	E
LMB-BAT-010	File Upload failed.	I
LMB-BAT-011	File Uploaded successfully.	I
LMB-BAT-012	Batch Data Next Run date updated.	I
LMB-BIC-001	Bank Record Authorized successfully in Core bank and Oracle Banking Liquidity Management for $1.	I
LMB-BIC-002	Error in Bank record saving.	E
LMB-BIC-003	Bic Code $1 uploaded successfully	I
LMB-BIC-004	Error while authorizing BicDirectory.	E
LMB-BIC-005	Error while saving BicDirectory.	E
LMB-BIC-006	Bic Code $1 Modified successfully.	E
LMB-BIC-007	Error while modify, authorizing BicDirectory.	E
LMB-BIC-008	Error while modifying BicDirectory	E
LMB-BIC-009	Bic Code $1 Closed successfully.	E

LMB-BIC-010	Error while close authorizing BicDirectory $1	E
LMB-BIC-011	Error while Closing BicDirectory.	E
LMB-BIC-012	Bic Code $1 Unchanged successfully	E
LMB-BOD-001	BOD initiated for branch:- $1	I
LMB-BOD-002	Failed to initiated BOD - BOD for branch is already in progress.	E
LMB-BOD-003	Failed to initiated BOD - BOD for branch is already executed for day.	I
LMB-BOD-004	Failed to initiated BOD - DATEFLIP for branch is not executed.	E
LMB-BOD-005	Failed to initiated BOD - EOD for branch is in progress.	E
LMB-BOD-006	Failed to initiated BOD - Not a valid Branch.	E
LMB-BOD-007	Failed to initiated BOD	E
LMB-BRAN-001	Branch Record Authorized successfully in Core Branch and Oracle Banking Liquidity Management for $1	E
LMB-BRAN-002	Error in Branch core record saving	E
LMB-BRAN-003	Please mention date in the format - MM/dd/yyyy	I
LMB-BRAN-004	Error in Branch record saving	E
LMB-BRAN-005	Branch Holiday uploaded successfully	E
LMB-BRAN-006	Error while authorizing Branch Holiday.	E
LMB-BRAN-007	Error while saving Branch Holiday	E
LMB-BRAN-008	Year is null	E
LMB-BRAN-009	Holidays is nul1	E
LMB-BRAN-010	Branch Code does not exist.	E
LMB-BRAN-011	Branch Code is null	E
LMB-CTRY-001	Country uploaded successfully.	I
LMB-CTRY-002	Error while authorizing LM Country	E
LMB-CTRY-003	Error while saving LM Country	E
LMB-CTRY-004	Error while authorizing Core Country.	E

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LMB-CTRY-005	Error while saving Core Country	E
LMB-CTRY-006	Country Code is null	E
LMB-CTRY-007	Description is null	E
LMB-CTRY-008	IBAN Check is null	E
LMB-CUR-001	Currency CutOff record authorized Successfully in Oracle Banking Liquidity Management	I
LMB-CUR-002	Error in Currency cutoff saving	E
LMB-CUR-003	Currency record authorized Successfully in Oracle Banking Liquidity Management and Common Core for $1	I
LMB-CUR-004	Error in Currency Definition saving	E
LMB-CUR-005	Error in Currency Core record saving.	E
LMB-CUR-006	Error in Currency saving	E
LMB-CUR-007	Currency Holiday uploaded successfully	I
LMB-CUR-008	Error while authorizing Currency Holiday	E
LMB-CUR-009	Error while saving Currency Holiday	E
LMB-CUR-010	Currency Exchange Rate uploaded successfully	E
LMB-CUR-011	Error while authorizing Currency Exchange Rate	E
LMB-CUR-012	Error while saving Currency Exchange Rate	E
LMB-CUR-0013	Currency 1 is null	E
LMB-CUR-014	Currency 2 is null	E
LMB-CUR-015	Currency Code is null	E
LMB-CUST-001	Customer uploaded successfully	I
LMB-CUST-002	Error while authorizing LM Customer	E
LMB-CUST-003	Error while saving LM Customer	E
LMB-CUST-004	Error while authorizing Core Customer	E
LMB-CUST-005	Error while saving Core Customer	E
LMB-CUST-006	Customer Number is null	E
LMB-CUST-007	Customer Name is null	E
LMB-CUST-008	Source System is null	E

LMB-CUST-009	Customer Id does not exist	E
LMB-CUST-010	Parent Customer $1 does not exist	E
LMB-CUST-011	Customer authorized and uploaded successfully	I
LMB-EOD-001	Failed to initiated EOD - There are Pending Maintenances for Authorization.	E
LMB-EOD-002	Failed to initiated EOD - Branch Contains Sweeps with Pending status.	E
LMB-EOD-003	Failed to initiated EOD - EOD for branch is already completed.	E
LMB-EOD-004	Failed to initiated EOD - EOD for branch is already in progress.	E
LMB-EOD-005	Failed to initiated EOD - Not a valid Branch.	E
LMB-EOD-006	User does not have necessary role.	E
LMB-EOD-007	Failed to initiated EOD.	E
LMB-EOD-008	EOD Post IC initiated for branch:- $1.	I
LMB-EOD-009	Failed to initiated EOD Post IC - EOD Post IC for branch is already completed.	E
LMB-EOD-010	Failed to initiated EOD Post IC - EOD Post IC for branch is already in progress.	E
LMB-EOD-011	Failed to initiated EOD Post IC - EOD Pre IC for branch is not completed.	E
LMB-EOD-012	Failed to initiated EOD Post IC.	E
LMB-EOD-013	Date Flip for branch completed:- $1	I
LMB-EOD-014	Failed to initiated Date Flip.	E
LMB-EOD-015	Failed to initiated Date Flip - EOD Post IC for branch is not completed.	E
LMB-EOD-016	Failed to initiated Date Flip - Not a valid Branch.	E
LMB-INT-001	Interface record Authorized Successfully for $1.	I
LMB-INT-002	External System Id not found for $1	E
LMB-INT-003	Error in Interface saving.	E
LMB-SWP-001	Sweep Instruction saved and uploaded successfully.	E

LMB-SWP-002	Sweep Instruction Record authorized successfully.	E
LMB-EOD-017	EOD initiated for branch :- $1.	I
LMB-EOD-018	Failed to initiated EOD - BOD for branch not completed.	E
LMX-INGT-001	Account Pair Record Already Exists.	E
LMX-INGT-002	Message already processed for external reference $1.	E
LMX-INGT-003	Account Updated Successfully.	E
LMM-ACC-001	Account Status is Mandatory!!!	E
LMM-ACC-002	Account Category is Mandatory!!!	E
LMM-ACC-003	Account Record Created in IC and Authorized successfully	I
LMM-ACC-004	Account Record Authorized successfully but failed to create in IC	E
LMM-ACC-005	Account Record Authorized successfully	I
LMM-ACC-006	Account Category validation Failed	E
LMM-ACC-007	Account Status validation Failed	E
LMM-ACC-008	Branch Validation Failed	E
LMM-ACC-009	Account Group Code Not available	E
LMM-ACC-010	Account Number already exists	E
LMM-ACC-011	Customer Id not mapped with User	E
LMM-ACC-012	Customer Id not available	E
LMM-ACC-013	Account authorized in LM but Failure creating account in IC	E
LMM-ACC-014	Record Successfully Modified and Authorized	I
LMM-ACC-015	Failure Authorizing account	E
LMM-ACC-016	Account Updated Successfully	I
LMM-ACC-017	Account Balances Updated Successfully	I
RMLINK-COM-001	User cannot create/modify own records.	E
LMP-POOL-001	Pool not allowed at System level	I

LMP-POOL-002	No Structure exists with given Structure Id	E
LMP-POOL-003	Pool Initiated for structure	I
LMP-POOL-004	Pool Initiated for Branch	I
LMP-POOL-005	Reallocation Initiated for structure	I
LMP-POOL-006	Reallocation executed for Structures	I
RTL-ERR-001	RTL Structure for account does not exist.	E
LMA-STR-001	Structure Validation Successful!!!	I
LMA-STR-002	Error in Structure Validation!!!	E
LMA-STR-003	Record Successfully Submitted and Authorized	I
LMA-STR-004	Failed to Auto Authorize Record	E
LMA-STR-005	Record Successfully Submitted	I
LMA-STR-006	Failed to Submit Record	E
LMA-STR-007	Empty input data	E
LMA-STR-008	Account Category is mandatory $1	E
LMA-STR-009	No Header account exists for the structure	E
LMA-STR-010	No Child account exists for the structure	E
LMA-STR-011	Pool Structure Type cannot have Account Type as Sweep	E
LMA-STR-012	Sweep Structure Type cannot have Account Type as Pool	E
LMA-STR-013	Hybrid Structure Type should have both Account Type Pool and Sweep	E
LMA-STR-014	All Selected Accounts must be used in Structure!!!	E
LMA-STR-015	No Linked Account data	E
LMA-STR-016	Structure Status is Incomplete	E
LMA-STR-017	No account exists for the structure	E
LMA-STR-018	Interest Method should be I for sweep and hybrid structure	E
LMA-STR-019	Effective Date should be before than end date	E

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LMA-STR-020	Central Account Details should be specified for structure having reallocation method as Central Distribution	E
LMA-STR-021	Central Account is not active	E
LMA-STR-022	Central Account does not exist in Oracle Banking Liquidity Management $1	E
LMA-STR-023	Structure Id or version no is null $1	E
LMA-STR-024	Structure Type is null	E
LMA-STR-025	Structure Status is null	E
LMA-STR-026	Structure Description is null	E
LMA-STR-027	Structure Effective Date is null	E
LMA-STR-028	Structure End Date is null	E
LMA-STR-029	Structure Priority is null	E
LMA-STR-030	Structure Source is null	E
LMA-STR-031	Structure Post Sweep Balance is null	E
LMA-STR-032	Structure Interest Method is null	E
LMA-STR-033	Structure Balance Type is null	E
LMA-STR-034	Structure FX Rate Pick up is null	E
LMA-STR-035	Account is not active $1	E
LMA-STR-036	Account is not active or does not exist in Oracle Banking Liquidity Management $1	E
LMA-STR-037	Child Account $1 customer $2 is not child of Parent Customer	E
LMA-STR-038	Child account cannot be a Notional Account $1	E
LMA-STR-039	Parent Account cannot be an External Account $1	E
LMA-STR-040	Child of a Notional Account cannot be Sweep Type $1	E
LMA-STR-041	Pool type account cannot have instruction attached	E
LMA-STR-042	Pool type account cannot have payment instruction attached $1	E

LMA-STR-043	Sweep type account should have payment instruction attached $1	E
LMA-STR-044	Sweep Priority should be defined for Account Ref $1	E
LMA-STR-045	Reverse sweep Frequency should be assigned is reverse sweep is allowed $1	E
LMA-STR-046	Child Branch not available	E
LMA-STR-047	Parent Branch not available	E
LMA-STR-048	Child Bank not available	E
LMA-STR-049	Parent Bank not available	E
LMA-STR-050	Cross Border sweep is not allowed for account pair	E
LMA-STR-051	Domestic not allowed for account pair	E
LMA-STR-052	Cross Currency not allowed for account pair	E
LMA-STR-053	Parent Account Currency is null: $1	E
LMA-STR-054	Child Account Currency is null: $1	E
LMA-STR-055	Multi Bank $1 not allowed for account pair	E
LMA-STR-056	Multi Bank Pool is not allowed	E
LMA-STR-057	Frequency does not exist in system: $1	E
LMA-STR-058	MBCC cut off getting failed for account pair $1 for the frequency $1	E
LMA-STR-059	Header Account of a Pool or Hybrid Structure should be Notional Account $1	E
LMA-STR-060	Header Account of a Pool or Hybrid Structure should have reallocation method defined $1	E
LMA-STR-061	Acc Level is not correct for account number $1	E
LMA-STR-062	Account Sweep priority is same for account number $1	E
LMA-STR-063	Multiple Instruction frequency should be different $1	E
LMA-STR-064	System Branch does not exist in Oracle Banking Liquidity Management	E
LMA-STR-065	Error in Account Create/Auth	E

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LMA-STR-066	Structure Created and Authorized Successfully $1	I
LMA-STR-067	Failed to authorize Structure $1	E
LMA-STR-068	Structure Created Successfully $1	I
LMA-STR-069	Failed to Create Structure $1	E
LMA-STR-070	Failed to Create Structure Id:- $1	E
LMA-STR-071	Customer not mapped with the user	E
LMA-STR-072	No Customer is mapped with the user	E
LMA-STR-073	data[0] may not be null	E
LMA-STR-074	No User Customer Linkage is available	E
LMA-STR-075	Error in Structure creation	E
LMA-STR-076	Failed to validate Structure Id $1 as customer mapping is not correct	E
LMA-STR-077	Structure Modified and Authorized Successfully - $1	I
LMA-STR-078	Structure Modified Successfully: $1	I
LMA-STR-079	Failed to Modify Structure: $1	E
LMA-STR-080	Failed to Modify Structure Id $1	E
LMA-STR-081	Failed to Modify Structure Id $1 as Previous Version of Structure is not available	E
LMA-STR-082	Error in Structure modify	E
LMA-STR-083	Next Run Date Updated..	I
LMA-STR-084	Account Record Authorized successfully.	I
LMA-STR-085	Account Record Not Authorized.	E
SW-ERR-005	Structure $1 does not exist or not active.	E
SW-ERR-006	No Structure selected.	E
SW-ERR-007	No Acc pair selected.	E
SW-ERR-008	Structure is not active:- $1	E
SW-ERR-009	Sweep Failed for Structures:- $1	E
SW-ERR-010	Sweep executed for Structures.	I
SW-ERR-011	Account Pair Record Already Exists.	E

SW-ERR-012	Structure Sweep Record Already Exists.	E
SW-ERR-013	User does not have necessary roles/activity assigned.	E
SW-ERR-014	Previous handoff is not completed for account pair $1	E
IC-PRCBT003	Liquidation Start Date cannot be null	E
SW-ERR-015	Sweep Failed- Account(s) in Structure is on Hold	E
LMC-ERR-001	Fixed amount should be maintained between the range of defined minimum and maximum amount	E
LMC-ERR-002	Instruction is assigned to structure(s). Failed to close	E
LMM-ACC-018	Account Record Modified in IC and Authorized successfully	I
LMM-ACC-019	Account Record Authorized successfully but failed to modify in IC	E