Oracle® Banking Liquidity Management
Troubleshooting Guide

Release 14.8.0.0.0
G28882-02
April 2025

ORACLE®

Oracle Banking Liquidity Management Troubleshooting Guide, Release 14.8.0.0.0

G28882-02

Contents

3   Health Checks

4   Troubleshooting Application Workflows

5   Troubleshooting OutOfMemory issues

6   Troubleshooting Deployment Errors/Exceptions

A   Error Code and Messages

Index

Preface

- [Purpose](#)
- [Audience](#)
- [Documentation Accessibility](#)
- [Critical Patches](#)
- [Diversity and Inclusion](#)
- [Related Documents](#)
- [Conventions](#)
- [Acronyms and Abbreviations](#)
- [Prerequisites](#)
- [General Prevention](#)
- [Best Practices](#)

Purpose

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

Audience

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

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

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Critical Patches

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 ensure 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 Documents

The related documents are as follows:

* *Oracle Banking Common Core User Guide*

* *Oracle Banking Security Management System User Guide*

* *Oracle Banking Getting Started User Guide*

* *Oracle Banking Liquidity Management User Guide*

* *Oracle Banking Liquidity Management Configuration Guide*

* *Oracle Banking Liquidity Management File Upload User Guide*

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
`monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Acronyms and Abbreviations

The list of the acronyms and abbreviations used in this guide are as follows:

Table 1   Acronyms and Abbreviations

Abbreviation	Description
SMS	Security Management System
CMC	Common Core Service
MOC	Mid office Common Core
ELK	Elasticsearch Logstash Kibana

Prerequisites

Prerequisites for End Users

The prerequisites are as follows:

- Basic understanding of Eventing platform

- Basic understanding application log analysis using tools

- Basic understanding DB changes

Pre-installed Softwares

The following softwares should be pre-installed:

- Zipkin

- Kafka

- ELK

- Any SQL Database like SQLDEVELOPER

- WinSCP

General Prevention

Do not make any changes to Flyway scripts manually.

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 the flow of logs in case of an app crash.

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

1
Troubleshooting Technical Flows

This topic describes about various programming issues, possible causes, and solutions to resolve the issues.

This topic contains the following subtopics:

- Where is the Problem
  This topic describes about troubleshooting the problem in the distributed system.

- Preliminary Checks from UI
  This topic provides systematic instructions to launch the application and check for the basic errors.

- Troubleshooting Environmental Issues
  This topic describes about the troubleshooting environmental issues.

1.1 Where is the Problem

This topic describes about troubleshooting the problem in the distributed system.

Troubleshooting the problem in the distributed system can be 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.

It is important to establish the area of the problem on the service side. It can be achieved by a complete understanding of UI and service side flows along with the data architecture of an application.

Figure 1-1   Distributed Flow Across Micro Services

Distributed flow across micro services

1.2 Preliminary Checks from UI

This topic provides systematic instructions to launch the application and check for the basic errors.

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**.

3. Verify that all the call responses are successful.

Figure 1-2   Call Responses

> **Note:**
>
> Usually Red color indicates non 2xx HTTP response.

Figure 1-3   Non 2xx Response

4. Export the trace using the **Export** in browsers.

    Example: The user can see the export option as shown below in Chrome.

Figure 1-4   Export Option

> **✎ Note:**
>
> The tools such as **Fiddler** and **Wireshark** can be used to get the browser to API gateway web traffic. This helps to investigate the exact request and response payloads exchanged between UI and API Gateway.

1.3 Troubleshooting Environmental Issues

This topic describes about the troubleshooting environmental issues.

This topic contains the following subtopics:

-   Possible Issues While Deploying Services
    This topic describes the possible issues while deploying services

-   Possible Issues in Login and Screen Launch
    This topic describes the possible issues that may occur while logging in and launching the screens.

1.3.1 Possible Issues While Deploying Services

This topic describes the possible issues while deploying services

This topic contains the following subtopics:

- Service Deployment is failing due to Flyway
  This topic describes the Service Deployment is failing due to Flyway

- Other possible issues
  This topic describes the Other possible issues while deploying the server.

1.3.1.1 Service Deployment is failing due to Flyway

This topic describes the 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.

1.3.1.2 Other possible issues

This topic describes the Other possible issues while deploying the server.

The other possible issue while deploying services could be multiple versions of dependency jars present in the war file.

```
weblogic.application.naming.EnvironmentExceptioncmc-customer-services-
{version}.war
```

1.3.2 Possible Issues in Login and Screen Launch

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

This topic contains the following subtopics:

- Login Page is not Launching
  This topic provides the systematic instructions if login page is not launching.

- Unable to login after launching the application
  This topic describes the possible issues for Unable to login after launching the application.

- Unable to login after restarting the services
  This topic describes the issues to login after restarting the services

- Menus are not displayed after logging in
  This topic describes the issues of Menus are not displayed after logging in.

- Screens are not launching after logging in
  This topic describes the issues of Screens are not launching after logging in

1.3.2.1 Login Page is not Launching

This topic provides the systematic instructions if login page is not launching.

1. Check whether the app-shell war file is deployed.

2. Make sure that the war file is up and running in the deployed managed server and try to login.

3. Check whether the user has logged in with the appshell URL according to the war file deployed.

4. Check whether the required component-server wars like cmc-component-server, obvam-component-server etc are also deployed along with the app-shell.

   Example: `http://<ip-address>:<Port>/app-shell/index.jsp` will load the login page of the application.

   In the above URL, the name `app-shell` is dynamic which depends on the name of war file deployed.

Figure 1-5   Sign In

1.3.2.2 Unable to login after launching the application

This topic describes the possible issues for Unable to login after launching the application.

Perform the following check 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 1-6   Services

1.3.2.3 Unable to login after restarting the services

This topic describes the issues 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.

1.3.2.4 Menus are not displayed after logging in

This topic describes the issues of 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.

1.3.2.5 Screens are not launching after logging in

This topic describes the issues of 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.

2

Troubleshooting Kafka

This topic describes about the troubleshooting Kafka.

This topic contains the following subtopics:

- Consumer Services
  This topic describes about the Consumer Services.

- Producer Services
  This topic describes about the Producer Services.

- Debugging Consumer/Producer health and troubleshooting
  This topic describes about the Debugging Consumer/Producer health and troubleshooting.

- Configurations
  This topic describes about the Configurations.

2.1 Consumer Services

This topic describes about the Consumer Services.

Oracle Banking Liquidity Management consumer service can be referred at **Async Application Program Interface Guide**

2.2 Producer Services

This topic describes about the Producer Services.

Oracle Banking Liquidity Management Producer service can be referred at **Async Application Program Interface Guide**

2.3 Debugging Consumer/Producer health and troubleshooting

This topic describes about the Debugging Consumer/Producer health and troubleshooting.

This topic contains the following subtopics:

- Logs to analyze
  This topic describes about the Logs to analyze.

- Tables to analyze
  This topic describes about the Tables to analyze.

2.3.1 Logs to analyze

This topic describes about the Logs to analyze.

oblm-integration-services logs should be checked.

2.3.2 Tables to analyze

This topic describes about the Tables to analyze.

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

Table 2-1   Tables to analyze

Table Name	Column Name	Possible Values
lmx_tb_event_log	is_published	The available options are: • 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

2.4 Configurations

This topic describes about the 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.

3

Health Checks

This topic describes about Health Checks.

This topic contains the following subtopics:

- Eureka Dashboard
  This topic describes about Eureka Dashboard.

- Application Services
  This topic describes about application services.

3.1 Eureka Dashboard

This topic describes about Eureka Dashboard.

Until the heath check API's implemented, the health must be monitored using WebLogic JVM managed server status and Eureka instance.

Figure 3-1   Eureka Dashboard

3.2 Application Services

This topic describes about application services.

Catalog of services required for Oracle Banking Liquidity Management are as follows:

Table 3-1   Services List

Group	Service List	Usage
OBLM	oblm-cash-concentration-services	Used for various sweeps/cash concentration methods.
OBLM	oblm-dashboard-services	Used for loading oblm dashboard data
OBLM	oblm-icl-services	Used for inter-company loan creation
OBLM	oblm-integration-services	Used for integrating with external systems
OBLM	oblm-maintenance-services	Used for LM parameter maintenances
OBLM	oblm-messaging-services	Used for payment messaging
OBLM	oblm-pool-services	Used for pool structures
OBLM	oblm-report-services	Used for report generation
OBLM	oblm-rtl-services	Used for RTL structure
OBLM	oblm-structure-services	Used for account structures
OBLM	oblm-sweep-services	Used for sweep executions
OBLM	oblm-component-server	Oracle Banking Liquidity Management UI
OBLM	obic-bod-batch-services	Used for Interest and Charges
OBLM	oblm-ic-config-services	Used for Interest and Charges
OBLM	oblm-ic-charge-calc-services	Used for Interest and Charges
OBLM	oblm-ic-external-adapter-services	Used for Interest and Charges
OBLM	obic-intchg-accting-services	Used for Interest and Charges
OBLM	obic-interest-accrual-services	Used for Interest and Charges
OBLM	obic-interest-allocate-services	Used for Interest and Charges
OBLM	obic-interest-batch-services	Used for Interest and Charges
OBLM	obic-interest-calc-services	Used for Interest and Charges
OBLM	obic-interest-input-services	Used for Interest and Charges
OBLM	obic-interest-liquidation-services	Used for Interest and Charges
OBLM	obic-interest-maintqueue-services	Used for Interest and Charges
OBLM	obic-interest-resolve-services	Used for Interest and Charges
OBLM	obic-maintenance-services	Used for Interest and Charges
OBLM	obic-online-liquidation-services	Used for Interest and Charges
OBLM	vamlm-charge-services	Used for Interest and Charges
OBMA	plato-config-service	Required for OBMA framework
OBMA	plato-feed-services	Required for OBMA framework
OBMA	plato-alerts-management-services	Required for OBMA framework
OBMA	plato-api-gateway	Required for OBMA framework
OBMA	plato-discovery-service	Required for OBMA framework
OBMA	plato-orch-service	Required for OBMA framework
OBMA	plato-o	Required for OBMA framework
OBMA	plato-ui-config-services	Required for OBMA framework
OBMA	plato-batch-server	Required for OBMA framework
OBMA	plato-report-services	Required for OBMA framework

Table 3-1   (Cont.) Services List

Group	Service List	Usage
SMS	sms-core-services-{version}.war	SMS services
SMS	sms-component-server-{version}.war	SMS UI
CMC	cmc-obrh-service	Used for routing via OBRH.
CMC	cmc-report-service	Common Core Services
CMC	cmc-resource-segment-orchestrator-service	Used in screens using gcs like maintenance screens.
CMC	cmc-screenclass-services	Common Core Services
CMC	cmc-settlements-services	Common Core Services
CMC	cmc-txn-code-services	Common Core Services
CMC	cmc-account-services	Common Core Services
CMC	cmc-advice-services	Common Core Services
CMC	cmc-base-services	Common Core Services
CMC	cmc-batch-services	Common Core Services
CMC	cmc-branch-services	Common Core Services
CMC	cmc-businessoverrides-services	Common Core Services
CMC	cmc-corebanking-adapter-service	Common Core Services
CMC	cmc-currency-services	Common Core Services
CMC	cmc-customer-services	Common Core Services
CMC	cmc-datasegment-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-obrh-services	Common Core Services
CMC	cmc-resource-segment-orchestrator-service	Common Core Services
CMC	cmc-screenclass-services	Common Core Services
CMC	cmc-settlements-services	Common Core Services
CMC	cmc-transactioncontroller-services	Common Core Services
CMC	cmc-component-server-{version}.war	CMC UI
CMC	cmc-resourceclass-services	Common Core Services
CMC	cmc-charges-calculation-services	Common Core Services
OBMA	app-shell-{version}.war	UI

> **Note:**
>
> Refer to OSDC zip for the exact version number for each service.

4

Troubleshooting Application Workflows

This topic describes the troubleshooting functional workflows applicable to Oracle Banking Liquidity Management.

This topic contains the following subtopics:

- Oracle Banking Liquidity Management – Subdomains List
  This topic describes about the Oracle Banking Liquidity Management Subdomains List.

- Micro Frontend Architecture
  This topic describes about the Micro Frontend Architecture

- Payment Service Integration Troubleshooting
  The topic describes the possible issues that may occur in payment service integration.

- Troubleshooting SMS Errors
  This topic describes about Troubleshooting SMS Errors.

- Oracle Banking Routing Hub Configuration
  This topic describes about Oracle Banking Routing Hub configuration.

4.1 Oracle Banking Liquidity Management – Subdomains List

This topic describes about the Oracle Banking Liquidity Management Subdomains List.

The subdomains of Oracle Banking Liquidity Management are shown below

Figure 4-1   Composition of Oracle Banking Liquidity Management

4.2 Micro Frontend Architecture

This topic describes about the Micro Frontend Architecture

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

Figure 4-2   UI – Micro Frontend Architecture

Figure 4-3   Services – Micro Frontend Architecture

On successful login, the Oracle Banking Liquidity Management dashboard screen appears depending on the user privileges.

Figure 4-4   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.

  From **Home** screen, click **Security Management**. Under **Security Management**, click **Role**.

Figure 4-5   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.

From **Home** screen, click **Security Management**. Under **Security Management**, click **Role**.

Figure 4-6   Users Maintenance

> **Note:**
>
> Make sure that the required Role and User Applications are mapped to the user.

- First level issues
  This topic describes the possible issues that may occur during the basic investigation.

4.2.1 First level issues

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

This topic contains the following subtopics:

*   Error Message not shown
    This topic describes about Error Message not shown.

*   Setting Log file path
    This topic describes about Setting Log file path.

*   Dynamic log generation issues
    This topic describes about Dynamic log generation issues.

*   Call is failing in Gateway
    This topic describes about Call is failing in Gateway.

*   Logs are not generated
    This topic describes about Logs are not generated.

*   Code error in GCS side
    This topic describes about the error code in GCS Side.

*   404 Error
    This topic describes about the 404 Error

*   500 Internal Error
    This topic describes about the 500 Internal Error

4.2.1.1 Error Message not shown

This topic describes about Error Message not shown.

If there are any improper calls, check the ERTB_MSGS table of the respective schema to understand the cause of the error.

1. Press **F12** to open the **Networks**.

2. Check the error code in the response.

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

Figure 4-7   Error Code

4.2.1.2 Setting Log file path

This topic describes about Setting Log file path.

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

Query: Select * from PLATO_LOGGER_PARAM_CONFIG;

Figure 4-8   PLATO_LOGGER_PARAM_CONFIG

4.2.1.3 Dynamic log generation issues

This topic describes about Dynamic log generation issues.

For generating dynamic service logs, insert the data to **PLATO_DEBUG_USERS** table.

Query: Select * from PLATO_DEBUG_USERS;

Figure 4-9   Service Logs

> **✎ 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 4-10   PLATO_DEBUG_USERS

4.2.1.4 Call is failing in Gateway

This topic describes about Call is failing in Gateway.

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

Figure 4-11   API Gateway

> **✎ Note:**
>
> Restart the specific services if required.

4.2.1.5 Logs are not generated

This topic describes about Logs are not generated.

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

Figure 4-12   Postman

4.2.1.6 Code error in GCS side

This topic describes about the error code in GCS Side.

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

4.2.1.7 404 Error

This topic describes about the 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

4.2.1.8 500 Internal Error

This topic describes about the 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.

4.3 Payment Service Integration Troubleshooting

The topic describes the possible issues that may occur in payment service integration.

The possible issues and causes are described in the following subtopics:

- Balance Fetch (FCUBS) is failing
  This topic describes about the Balance Fetch (FCUBS) is failing.

- Accounting call (FCUBS) is failing
  This topic describes about the Accounting call (FCUBS) is failing

- OBPM call is failing
  This topic describes about the OBPM call is failing

4.3.1 Balance Fetch (FCUBS) is failing

This topic describes about the 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 4-13   Balance Fetch (FCUBS) is failing

4.3.2 Accounting call (FCUBS) is failing

This topic describes about the 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 4-14   Account calling (FCUBS) is failing

4.3.3 OBPM call is failing

This topic describes about the 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

4.4 Troubleshooting SMS Errors

This topic describes about 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.

4.5 Oracle Banking Routing Hub Configuration

This topic describes about Oracle Banking Routing Hub configuration.

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

5

Troubleshooting OutOfMemory issues

This topic describes about Troubleshooting OutOfMemory issues

This topic contains the following subtopics:

- **Extracting Heapdump**
  This topic describes about Extracting Heapdump.

- **JFR Tool in Java**
  This topic describes about JFR Tool in Java.

- **Quick Recovery**
  This topic provides the troubleshooting Quick Recovery.

5.1 Extracting Heapdump

This topic describes about 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.

This topic contains the following subtopics:

- **Heap Dump**
  This topic describes about Heap Dump.

5.1.1 Heap Dump

This topic describes about 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>

This topic contains the following subtopics:

- **Remote Heap Monitor setup**
  This topic describes about Remote Heap Monitor setup.

5.1.1.1 Remote Heap Monitor setup

This topic describes about 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:

- • Start JVisualVM.
- • Under "Remote" option, add a host.
- • Under new host, add new jmx connection.

> **Note:**
>
> With this setup, the JAVA process can be monitored remotely.

5.2 JFR Tool in Java

This topic describes about JFR Tool in Java.

Java Flight Recorder (JFR) is a tool for collecting diagnostic and profiling data about a running Java application. It is integrated into the Java Virtual Machine (JVM) and causes almost no performance overhead, so it can be used even in heavily loaded production environments.

The below documentation provides steps to use JFRs to collect performance details and profiling data of services and can be used to report performance issues for OBMA services.

5.3 Quick Recovery

This topic provides the troubleshooting Quick Recovery.

As a quick fix, try to restart the managed server or try to increase the memory allocated to the managed server.

Perform the following steps to increase the memory:

1. Click **Servers**.

Figure 5-1   Domain Structure

2. Select the managed server from which you are getting OutOfMemoryException or GC Overhead Limit exceeded, and click **Server Start** tab.

Figure 5-2   Server Start

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 5-3   Memory Requirements

6

Troubleshooting Deployment Errors/ Exceptions

This topic describes the troubleshooting information for Errors/Exceptions that can occur due to flyway while deployment.

Errors / Exceptions on Flyway Deployment

The error description is given below:

```
org.springframework.beans.factory.UnsatisfiedDependencyException:
Error creating bean with name 'application': Unsatisfied dependency
expressed through field 'flywayApplicationConfig'; nested exception is
org.springframework.beans.factory.BeanCreationException: Error creating
bean with name 'executeDomain' defined in class path resource
[oracle/fsgbu/plato/flyway/FlywayConfig.class]: Bean instantiation via
factory method failed; nested exception...SQL State : 42000
```

In the error, the bean-name can be any of the following:

*   **executeDomain**
*   **executePlato**
*   **executePlatoSec**
*   **executePlatoUI**
*   **executeSms**
*   **executeCmc**
*   **executeMidofcmc**
*   **executePlatofeed**
*   **executePlatobatch**
*   **executePlatoorch**

Solution for Errors/Exceptions

*   At first for each case,, the service through Plato-configuration-service should be checked to see if it is suggesting the correct scheme via the **plato-config-service**.
*   After checking that it is to be ensured for that particular APPLICATION, the following entries are present in the PROPERTIES table in the plato Schema.

Table 6-1   Properties Table

BEAN	PROPERTY_SET NEED TO BE PRESENT
executeDomain	flyway.domain.db.*
executePlato	flyway.plato.db.*
executePlatoSec	flyway.platosec.db.*

ORACLE®

Table 6-1   (Cont.) Properties Table

BEAN	PROPERTY_SET NEED TO BE PRESENT
executePlatoUI	flyway.platoui.db.*
executeSms	flyway.sms.db.*
executeCmc	flyway.cmc.db.*
executeMidofcmc	flyway.domain.db.*
executePlatofeed	flyway.platofeed.db.*
executePlatobatch	flyway.platobatch.db.*
executePlatoorch	flyway.platoorch.db.*

Depending on whether for the flyway db connection, JNDI name is being used or the JDBC URL and other details are used, each property set will look as follows:

CASE 1: USING JDBC

```
flyway.domain.db.username
flyway.domain.db.password
flyway.domain.db.jdbcUrl
flyway.domain.db.driver-class-name
flyway.domain.schemas
flyway.domain.locations
flyway.domain.placeholderReplacement
flyway.domain.ignoreMissingMigrations
flyway.domain.outOfOrder
```

CASE 2: USING JNDI

```
flyway.domain.db.jndi
flyway.domain.schemas
flyway.domain.locations
flyway.domain.placeholderReplacement
flyway.domain.ignoreMissingMigrations
flyway.domain.outOfOrder
flyway.jndi.datasource.enabled
```

In each case, make sure that all the relevant placeholders are available in the scripts in the respective locations.

Error Description:

```
No value provided for placeholder: ${eureka.host}. Check your configuration!
```

In the example above, an error occurred due to the absence of passing the following parameter in the properties table:

```
flyway.domain.placeHolders.eureka.host
```

Solution:

Similarly, any placeholder where the error occurred must pass to the environment through the properties table or the command line arguments (as -D parameters).

A

Error Code and Messages

This topic provides the error code and messages found while using Oracle Banking Liquidity Management.

Table A-1   List of Error Codes and Messages

Error Codes	Error Message
ACC_PRD-01	Unhandled Exception occurred
ACC_PRD-02	Invalid Product Accounting entry setup
ACC_PRD-03	Product code cannot be null
ACC_PRD-04	IC Branch Date not available for the current branch
BAT-POOL-500	Exception occurred during Pool execution- $1
BAT-POOL-501	Exception occurred in Pool Data Reader- $1
BAT-POOL-502	Exception occurred in Pool Data Processor- $1
BAT-REALLOC-500	Exception occurred during Reallocation execution- $1
BAT-REALLOC-501	Exception occurred in Reallocation Data Reader- $1
BAT-REALLOC-502	Exception occurred in Reallocation Data Processor- $1
BAT-SWP-501	Exception occurred during structure cache build - $1
BAT-SWP-502	Exception in BVT Sweep Resolution - $1
BAT-SWP-503	Exception occurred in Sweep Data Reader during EOD Account pair sweep execution - $1
BAT-SWP-504	Exception occurred in Sweep Data Reader during EOD Structure sweep execution - $1
BAT-SWP-505	Exception occurred in Sweep Data Reader during BOD Account pair sweep execution - $1
BAT-SWP-506	Exception occurred in Sweep Data Reader during BOD Structure sweep execution - $1
BAT-SWP-507	Exception occurred in Sweep Data Reader during BOD Account pair Reverse sweep execution - $1
BAT-SWP-508	Exception occurred in Sweep Data Reader during BOD Structure Reverse sweep execution - $1
BAT-SWP-509	Generic exception in Sweep Data Reader - $1
BAT-SWP-510	Exception occurred in Sweep Data Processor during EOD Account pair sweep execution - $1
BAT-SWP-511	Exception occurred in Sweep Data Processor during EOD Structure sweep execution - $1
BAT-SWP-512	Exception occurred in Sweep Data Processor during BOD Account pair sweep execution - $1
BAT-SWP-513	Exception occurred in Sweep Data Processor during BOD Structure sweep execution - $1

Table A-1   (Cont.) List of Error Codes and Messages

Error Codes	Error Message
BAT-SWP-514	Exception occurred in Sweep Data Processor during BOD Account pair Reverse sweep execution - $1
BAT-SWP-515	Exception occurred in Sweep Data Processor during BOD Structure Reverse sweep execution - $1
BAT-SWP-516	Generic exception in Sweep Data Processor - $1
BC-00234	Product End Date cannot be less than today
CC-ACC-002	Currency should be null for Multi-Currency Account
CC-BNK-003	Only one Bank Code is allowed.
CC-BNK-003	Only one Bank Code is allowed.
CMC-ACC-PII01	User doesnt have access to PII data, cannot perform create or modify operations
GCS-REJ-002	A rejected record cannot be reopened. Please delete this modification.
GCS-REJ-003	Invalid modifications sent for reject. Highest modification must also be included.
GCS-REJ-004	Record Rejected successfully
GCS-REJ-005	Maker cannot reject the record.
GCS-REJ-006	Checker remarks are mandatory while rejecting.
GCS-REJ-007	No valid modifications found for reject.
GCS-REJ-008	Invalid modifications sent for reject. Consecutive modifications must be included.
GCS-AUTH-01	Record Successfully Authorized
GCS-AUTH-02	Valid modifications for approval were not sent. Failed to match
GCS-AUTH-03	Maker cannot authorize
GCS-AUTH-04	No Valid unauthroized modifications found for approval.
GCS-CLOS-002	Record Successfully Closed
GCS-CLOS-01	Record Already Closed
GCS-CLOS-02	Record Successfully Closed
GCS-CLOS-03	Unauthorized record cannot be closed, it can be deleted before first authorization
GCS-COM-001	Record does not exist
GCS-COM-002	Invalid version sent, operation can be performed only on latest version
GCS-COM-003	Please Send Proper ModNo
GCS-COM-004	Please send makerId in the request
GCS-COM-005	Request is Null. Please Resend with Proper Values
GCS-COM-006	Unable to parse JSON
GCS-COM-007	Request Successfully Processed
GCS-COM-008	Modifications should be consecutive.
GCS-DEL-001	Record deleted successfully
GCS-DEL-002	Record(s) deleted successfully

Table A-1   (Cont.) List of Error Codes and Messages

Error Codes	Error Message
GCS-DEL-003	Modifications didnt match valid unauthorized modifications that can be deleted for this record
GCS-DEL-004	Send all unauthorized modifications to be deleted for record that is not authorized even once.
GCS-DEL-005	Only Maker of first version of record can delete modifications of record that is not once authorized.
GCS-DEL-006	No valid unauthroized modifications found for deleting
GCS-DEL-007	Failed to delete. Only maker of the modification(s) can delete.
GCS-MOD-001	Closed Record cannot be modified
GCS-MOD-002	Record Successfully Modified
GCS-MOD-003	Record marked for close, cannot modify.
GCS-MOD-004	Only maker of the record can modify before once auth
GCS-MOD-005	Not amendable field, cannot modify
GCS-MOD-006	Natural Key cannot be modified
GCS-REOP-003	Successfully Reopened
GCS-REOP-01	Unauthorized Record cannot be Reopened
GCS-REOP-02	Failed to Reopen the Record, cannot reopen Open records
GCS-REOP-03	Successfully Reopened
GCS-REOP-04	Unauthorized record cannot be reopened, record should be closed and authorized
GCS-SAV-001	Record already exists
GCS-SAV-002	Record Saved Successfully.
GCS-LOCK-01	Remove dirty lock failed
GCS-REJ-001	A rejected record cannot be closed. Please delete this modification.
IC-ACC-01	Branch Dates could not be resolved
IC-ACC-02	Failed while fetching user globals
IC-ACC-03	Could not get account
IC-ACC-04	Failed during Lookup
IC-ACC-05	Unhandled exception occurred during Lookup
IC-ACC-06	Bombed while converting the amount
IC-ACC-07	Unhandled Exception occurred
IC-ACC-08	Required Parameters for Account Class transfer not maintained
IC-ACC-09	Unhandled Exception occurred during Account Class transfer check
IC-ACC-50	Exception Occurred while querying Intraday Table for Product Accrual
IC-ACC-51	Exception Occurred while posting Liquidation Netting
IC-ACC-52	Failed while populating Product Accrual Entries
IC-ACC-53	Failed while updating final status

Table A-1   (Cont.) List of Error Codes and Messages

Error Codes	Error Message
IC-ACC-54	Failed while querying branch parameters
IC-ACC-55	Lookup failed for product code $1
IC-ACC-57	Failed During Currency Conversion for product $1
IC-ACC-58	Failed while marking entry passed for product $1
IC-ACC-59	Exception Occurred while preparing Accounting Entries for Product Accrual for product $1
IC-BAT-121	Failed in verifying pending process for the branch
IC-BAT-131	Error Occurred during Service Call to Allocation
IC-BAT-132	Error Occurred during Service Call to Interest Calc
IC-BAT-133	Error Occurred during Service Call to Interest Accrual
IC-BAT-134	Error Occurred during Service Call to Interest Liquidation
IC-BAT-135	Error Occurred during Service Call to Charge
IC-BAT-136	Error Occurred during Service Call to Accounting
IC-BAT-137	Error Occurred during Service Call to Product Accounting
IC-BAT-138	Error Occurred during Service Call to Resolve Branch
IC-BAT-139	Error Occurred during Service Call to Resolve Account
IC-BAT-140	Error Occurred during Service Call to Mark Cutoff
IC-BAT-141	Error Occurred during Service Call to Release Cutoff
IC-BAT-142	Error Occurred during Service Call to Pre Branch Resolution
IC-BAT-160	Failed while getting pending count for Intraday Batch
IC-BAT-161	Failed during service call for Intraday Batch
IC-BRNC-01	Invalid Branch Parameter
IC-CHGERR01	Failed while fetching user globals
IC-CHGERR02	Branch Dates could not be resolved
IC-CHGERR03	Could not get account
IC-CHGERR04	Could not get account
IC-CHGERR05	Error Occurred during Initialization
IC-CHGERR06	Bombed while converting the amount
IC-CHGERR07	Failed while deriving charge amount
IC-CHGERR08	Failed while deriving min/max amount
IC-CHGERR09	Failed during LCY Conversion
IC-CHGERR10	Failed While Caching Details for Charge Slab
IC-CHGERR11	Problem as both discount amt and discount percentage maintained
IC-CHGERR12	Failed while fetching Slab Details
IC-CHGERR13	Failed while fetching Tier Details
IC-CHGERR14	Failed during amount round

Table A-1 (Cont.) List of Error Codes and Messages

Error Codes	Error Message
IC-CHGERR17	Failed while fetching product details
IC-CHGERR19	Failed during currency conversion
IC-CHGERR23	Failed while fetching Charge Entries
IC-CHGERR24	Failed while Processing Charge
IC-CHGERR25	Failed while updating liqd dates
IC-CHGERR28	Could not get the book type
IC-GETSP-01	No details present for the given Branch and Account
IC-GRC001	Effective Date cannot be Back Dated.
IC-GRC002	Current IC Group and New IC Group cannot be same.
IC-GRC003	Account Branch and currency cannot be *.* for given Account.
IC-GRC004	Pending request is active for an Account, therefore new change request is not allowed to be saved
IC-GRC005	Booking GL details and accounting details are mandatory if Liquidation mode is Liquidate to GL or Liquidate to Different Account respectively
IC-INPER-01	Account is Mandatory
IC-INPER-02	Account Group Code is Mandatory
IC-INPER-03	Account Open Date is Mandatory
IC-INPER-04	Branch is Mandatory
IC-INPER-05	Currency is Mandatory
IC-INPER-06	Customer Number is Mandatory
IC-INPER-07	Source System is Mandatory
IC-INPER-09	No Records to process
IC-INPER-11	Maint Queue Population Failed
IC-INPER-20	Branch Parameter Not maintained
IC-INPT-001	No records present for given branch and account
IC-INPT-002	Exceeded accGrp max size 6
IC-INPT-003	accGrp not sent
IC-INPT-004	Exceeded accGrpDesc max size 2000
IC-INPT-005	accGrpDesc not sent
IC-INPT-006	Exceeded extAccGrp max size 64
IC-INPT-007	extAccGrp not sent
IC-INPT-008	Exceeded extAccGrpDesc max size 2000
IC-INPT-009	extAccGrpDesc not sent
IC-INPT-010	Exceeded extAccGrpType max size 1
IC-INPT-011	extAccGrpType not sent
IC-INPT-012	Exceeded productCode max size 4
IC-INPT-013	productCode not sent
IC-INPT-014	Exceeded ccy max size 3
IC-INPT-015	ccy not sent
IC-INPT-016	Exceeded open max size 1

Table A-1   (Cont.) List of Error Codes and Messages

Error Codes	Error Message
IC-INPT-017	open not sent
IC-IPTAC-01	Record Already Exists, Failed to save.
IC-IPTVD-01	Ref No in the request must be unique
IC-MNRUL-01	System elements not mapped to the Rule
IC-MNTBR-01	Error while validation of branch code using common core branch services
IC-MNTBR-02	Branch code not found in core branches
IC-MNTBR-03	IC Period Code Maintenance is not present
IC-MNTBR-04	Error while fetching system date values from CMC Branch Services
IC-MNTBR-05	Branch code not found in system dates
IC-PRCBT002	To Period Code should be greater than From Period Code
IC-PRCBT003	Profit calculation exclusion batch not executed for the given period
IC-PRD054	Value of Accrual Day should be less than or equal to 31
IC-PRD061	Frequency is blank in product preferences
IC-PRD062	Branch Parameter not maintained
IC-PRD120	Defer liquidation days should not be entered when defer liquidation flag is not selected
IC-PRD121	Defer before month end days should not be entered when defer liquidation flag is not selected
IC-PRD122	Defer liquidation days or defer before month end days should be entered when defer liquidation flag is selected
IC-PRD123	Both start from account opening and defer liquidation days flags cannot be selected at the same time
IC-PRD124	Days before month end should not be entered for frequency days
IC-PRD125	Both defer liquidation days and defer before month end day cannot be entered at the same time
IC-PRD126	Accrual cycle should be None when accrual frequency is Daily
IC-PRD131	Min Effective Value cannot be greater than Max Effective Value
IC-PRD132	Minimum Variance cannot be greater than Maximum Variance
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
IC-RL0007	Rule Id has invalid characters
IC-RL0008	Blank characters are not allowed in Rule Id
IC-RL0009	Rule Id - First character should be an alphabet or underscore

Table A-1   (Cont.) List of Error Codes and Messages

Error Codes	Error Message
IC-RL0048	Requires atleast one formula with a valid expression for a rule
IC-RL0056	Required atleast one booked formula to save the rule
IC-RLM060	Rounding Required should be checked when Book FLag is "Booked" and periodicity is "Daily/Periodic"
IC-RLM061	Accruals Required should be Unchecked when Book FLag is "Non-Booked" and periodicity is "Daily/Periodic"
IC-RLM069	Length of Rule Id should be equal to 4 characters
IC-RULE-01	SDE Id and UDE Id should be different
IC-RULE-02	Result cannot have logical operator
IC-SPRM-001	Service Parameters cannot be empty
IN-HEAR-583	Period Dates should be within Financial Cycle Start and End Date
IN-HEAR-586	The entered characters exceed the maximum length allowed for Financial Cycle
IN-HEAR-587	The entered characters exceed the maximum length allowed for Description
IN-HEAR-590	The entered characters exceed the maximum length allowed for Period Code
INT-MCT-001	Release CutOff is not processed for previous mark CutOff
INT-MCT-002	Branch Code Not Valid
INT-MCT-003	Branch Dates Not Set
INT-MCT-004	Branch Dates Not Maintained
INT-MCT-005	Error Occurred in Mark Cutoff
INT-PRC-001	No data found for this branchCode in BranchDates
INT-PRC-002	Release Cutoff Failed
INT-RCT-001	No data found for this branchCode in CutOff
INT-RCT-002	Release CutOff is already processed
INT-RCT-003	Error occurred while processing Release CutOff
INT-RCT-004	Branch Code Not Valid
ICL-LMT-001	Customer ID is not present.
ICL-LMT-002	Customer ID is not a valid lender.
ICL-LMT-003	Error encountered while converting amount.
ICL-LMT-004	Lending amount cannot exceed the Overall lend limit.
ICL-LMT-005	Lend limit is not defined for specified pair.
ICL-LMT-006	Lending amount cannot exceed the remaining lend limit between accounts.
ICL-LMT-007	Lend limit is available for the customer.
ICL-LMT-008	Exception occurred while fetching lend limit
ICL-LMT-009	Borrower ID is not present.
ICL-MOD-001	No loan exist with given ID
ICL-MOD-002	No loan exist with given sweep log ID

Table A-1 (Cont.) List of Error Codes and Messages

Error Codes	Error Message
ICL-SAV-001	Exception occurred while fetching Loan details
ICL-SAV-002	Error while fetching structure details
ICL-STL-001	Error encountered while initiating reverse sweep
ICL-STLMT-001	Settlement initiated successfully
ICL-STLMT-002	Failed to initiate settlement
ICL-STLMT-003	Error encountered while initiating reverse sweep
ICL-STLMT-004	Structure not found
ICL-STLMT-005	Failed while fetching Structure details. Please check the log
ICL-STLMT-006	Loan is not active
ICL-STLMT-007	No loan exist with given Loan Reference
ICL-GET-001	Exception occured while processing current request
IO-AUT-001	IO Structure is closed. 1. Interest is liquidated and allocated to all the participant accounts till date. 2. IC is disabled and IC group mapping is removed for all structure accounts. 3. To continue normal interest computation at account level, kindly update the 'IC required' flag to 'yes' and update the 'account group' for each LM account.
IO-AUT-002	IO Structure modification is authorized. 1. Interest is liquidated and allocated to all the delinked accounts till date. 2. IC is disabled and IC group mapping is removed for all the delinked accounts. 3. To continue normal interest computation at account level, kindly update the IC required flag to yes and update the account group for all the delinked accounts.
IO-AUT-003	IO structure is reopened. Kindly update the 'IC required' flag to 'yes' and update the 'account group' for all the participant accounts.
IO-AUT-004	System would overwrite the booking account maintained at the account level with Nominated account.
IO-AUT-005	System would overwrite the booking account maintained at the account level with Original account.
IO-AUT-006	System would overwrite the booking account maintained at account level for the delinked accounts with Original account.
IO-ERR-001	Please add Participant Accounts.
IO-ERR-002	Please add the Currency Rates.
IO-ERR-003	Nominated account Currency should be the same as Threshold Currency
IO-ERR-004	Please add only Nomination Rates
IO-ERR-005	Please remove Nomination Rates
IO-ERR-006	Currency in Nomination Rate should be the same the Threshold Currency
IO-ERR-007	Please add Currency Premium Rates

Table A-1   (Cont.) List of Error Codes and Messages

Error Codes	Error Message
IO-ERR-008	Please remove duplicate Participating Account $1
IO-ERR-009	Please remove following Participating accounts which are used in other IO structure $1
IO-ERR-010	Currency Threshold Rates not allowed if Nominated Account is provided
IO-ERR-011	Participant Account $1 is already used in $2 structure
IO-ERR-012	Structure Creation Failed. Currency Pair is not defined in Common Maintenance.
IO-ERR-013	Authorization of structure closure has failed as the liquidation to Participant Account has failed.
IO-ERR-014	Authorization of structure closure has failed as system could not disable IC of participant accounts.
IO-ERR-015	Authorization of IO structure closure has failed as the liquidation of one or more participant accounts has failed.
IO-ERR-016	Authorization of structure closure has failed as system could not disable IC of participant accounts.
IO-ERR-017	Authorization of IO structure modification has failed as the liquidation of one or more delinked accounts has failed.
IO-ERR-018	Authorization of IO structure modification has failed as system could not disable IC of one or more delinked accounts.
LMM-ACC-001	Account Status is Mandatory!!!
LMM-ACC-002	Account Category is Mandatory!!!
LMM-ACC-003	Account Record Created in IC and Authorized successfully
LMM-ACC-004	Account Record Authorized successfully but failed to create in IC
LMM-ACC-005	Account Record Authorized successfully
LMM-ACC-006	Account Category validation Failed
LMM-ACC-007	Account Status validation Failed
LMM-ACC-008	Branch Validation Failed
LMM-ACC-009	Account Group Code Not available
LMM-ACC-010	Account Number already exists
LMM-ACC-011	Customer Id not mapped with User
LMM-ACC-012	Customer Id not available
LMM-ACC-013	Account authorized in LM but Failure creating account in IC
LMM-ACC-014	Record Successfully Modified and Authorized
LMM-ACC-015	Failure Authorizing account
LMM-ACC-016	Account Updated Successfully
LMM-ACC-017	Account Balances Updated Successfully

Table A-1   (Cont.) List of Error Codes and Messages

Error Codes	Error Message
LMM-ACC-018	Third Party Account address line should not exceed 35 characters
LMM-ACC-019	Account Record Modified in IC and Authorized successfully
LMM-ACC-020	Account Record Authorized successfully but failed to modify in IC
LMM-ACC-021	Notional Account Number length cannot have more than 20 characters
LMM-ACC-022	Account creation failed
LMM-ACC-023	Account modification failed
LMM-ACC-024	Pool BVT is enabled for the active Structure. Please disable Structure level BVT pool before disabling Application BVT Parameter.
LMM-ACC-025	BVT is enabled for the active Structure. Please disable Structure level BVT before disabling Application BVT Parameter.
LMM-ACC-027	Account is either participating in Interest/ Advantage Structure or configured as Central Account for an Interest/Advantage Structure. Booking Account Currency should be same as Account Currency.
LMM-ACC-028	Only aplha numeric and approved special characters with max 34 characters allowed for account number
LMM-ACC-029	Account is Dormant.
LMM-CUS-001	Customer can not be closed as there are one or more active structures present.
LMM-ERR-001	Invalid Parent Customer Id, cyclic customer linkage not allowed.
LMM-ACC-030	Account already exists $1-$2-$3.
LMM-BRN-001	Branch details not available.
LMM-BRN-002	Exception occurred while calling IC date flip.
LMG-INF-ACCEPT-MSG	Message Received Successfully.
LMG-INF-SUCCESS-MSG	Balance Updated Successfully.
LMG-INF-STMT-OOO	Message received out of order, Balance update kept on Hold.
LMG-INF-BASEMSG-NOTFND	Base message not received for third party account number. Balance update kept on Hold.
LMG-ERR-INV-MSGFRMT	Message format incorrect.
LMG-ERR-DUP-MSG	Duplicate message.
LMG-ERR-CY-MISMATCH	Currency code mismatch for third party account.
LMG-ERR-ACT-NOTFND	Third party account number does not exist.
LMG-ERR-AVAILBAL-NOTFND	Available Balance not received in message, which is required for sweep execution.
LMG-INF-DATE-ONHOLD	Message received with future Date, Balance update kept on Hold.
LMG-ERR-DATE-MISMATCH	Message received with older date.

Table A-1   (Cont.) List of Error Codes and Messages

Error Codes	Error Message
LMG-INF-SWEEP-ONHOLD	Sweep execution in-progress, Balance update kept on hold.
LMG-INF-UNP-ONHOLD	Previous message in UnProcessed state, Balance update kept on hold.
LMG-INF-MSG-ONHOLD	Previous message on hold, So Balance update kept on hold.
LMG-ERR-INVALID-BIC	Invalid sender BIC Code.
LMG-ERR-MUL-940	MT940 already received for the day.
LMG-ERR-TAG-NOTFND	MT942 message need Tag61 or Tag90 for balance calculation.
LMG-ERR-RUNTIME	Error while processing message.
LMG-INF-SUPRESS-MSG	Message suppressed Successfully.
LMG-ERR-SUPRESS-MSG	Message cannot be Suppressed, message not in hold.
LMG-INF-MT942-CONFIG	MT942 MessageType Configuration Missing in Branch Parameter Screen
LMG-INF-ACT-CLOSED	Account in closed state
LMG-ERR-MT942-DATE	Tag 13D doesnot match with Todays date
LMG-ERR-BASEMSG-RECEIVED	Base Message already received for the day
LMG-ERR-BASEMSG-NOTFND	Base message not received for third party account number
LMG-ERR-SUPRESS-INTR-MSG	Intermediate Message Received, Message Got Supressed
LMG-ERR-LOCK	AccountNumber Lock Not Obtained
LMG-ERR-TAG-NOTFND-CAMT	CAMT052 needs the balance/statement tag for balance calculation.
LMG-ERR-CAMT-AVAILBAL-NOTFND	Available Balance/Transactions not received in message, which is required for sweep execution.
LMG-INF-CAMT-MSG-ONHOLD	Previous message on Hold/UnProcessed State and Current Message is without Base Balance. So message processing is kept on Hold.
LMG-INF-CAMT-MSG-SUPPRESS	Latest message received with Base Balance is processed. Older Hold/UnProcessed messages are moved to Suppressed State.
LMG-ERR-ACT-NOTMATCH	Account Number received not matching allowed length or special characters
LMG-INF-CAMT052-CONFIG	CAMT052 MessageType Configuration Missing in Branch Parameter Screen.
LMG-INF-CAMT053-CONFIG	CAMT053 MessageType Configuration Missing in Branch Parameter Screen.
LMP-POOL-001	Pool not allowed at System level
LMP-POOL-002	No Structure exists with given Structure Id
LMP-POOL-003	Pool Initiated for structure
LMP-POOL-004	Pool Initiated for Branch
LMP-POOL-005	Reallocation Initiated for structure
LMP-POOL-006	Reallocation executed for Structures

Table A-1   (Cont.) List of Error Codes and Messages

Error Codes	Error Message
LMP-POOL-008	Simulation initiated. Advice will be available for download in sometime.
LMP-POOL-009	Simulation failed.
LMP-POOL-010	Simulation not initiated. Advice can be generated only for maximum of 365 days.
LMP-POOL-012	Exception occurred while calculating liquidation
LMP-POOL-013	Error in saving data to Reporting Service
LMP-POOL-014	Exception in parsing Date
LMP-POOL-015	Exception occurred while conversion and insert of fiReallocLogList
LMP-POOL-016	Exception occurred while calculating daily reallocation
LMP-POOL-017	Exception occurred while saving daily reallocation record in database
LMP-POOL-018	Exception occurred as liquidation amount is null
LMP-POOL-019	Exception occurred while fetching structure details
LMP-POOL-020	Exception occurred while fetching contribution
LMP-POOL-021	Failed during reallocation processing
LMP-POOL-022	Daily processing executed for structure
LMA-STR-001	Structure Validation Successful!!!
LMA-STR-002	Error in Structure Validation!!!
LMA-STR-003	Record Successfully Submitted and Authorized
LMA-STR-004	Failed to Auto Authorize Record
LMA-STR-005	Record Successfully Submitted
LMA-STR-006	Failed to Submit Record
LMA-STR-007	Empty input data
LMA-STR-008	Account Category is mandatory $1
LMA-STR-009	No Header account exists for the structure
LMA-STR-010	No Child account exists for the structure
LMA-STR-011	Pool Structure Type cannot have Account Type as Sweep
LMA-STR-012	Sweep Structure Type cannot have Account Type as Pool
LMA-STR-013	Hybrid Structure Type should have both Account Type Pool and Sweep
LMA-STR-014	All Selected Accounts must be used in Structure!!!
LMA-STR-015	No Linked Account data
LMA-STR-016	Structure Status is Incomplete
LMA-STR-017	No account exists for the structure
LMA-STR-018	Interest Method should be I for sweep and hybrid structure
LMA-STR-019	Effective Date should be before than end date
LMA-STR-020	Central Account Details should be specified for structure having reallocation method as Central Distribution
LMA-STR-021	Central Account is not active

Table A-1   (Cont.) List of Error Codes and Messages

Error Codes	Error Message
LMA-STR-022	Central Account does not exist in OBLM $1
LMA-STR-023	Structure Id or version no is null $1
LMA-STR-024	Structure Type is null
LMA-STR-025	Structure Status is null
LMA-STR-026	Structure Description is null
LMA-STR-027	Structure Effective Date is null
LMA-STR-028	Structure End Date is null
LMA-STR-029	Structure Priority is null
LMA-STR-030	Structure Source is null
LMA-STR-031	Structure Post Sweep Balance is null
LMA-STR-032	Structure Interest Method is null
LMA-STR-033	Structure Balance Type is null
LMA-STR-034	Structure FX Rate Pick up is null
LMA-STR-035	Account is not active $1
LMA-STR-036	Account is not active or does not exist in OBLM $1
LMA-STR-037	Child Account $1 customer $2 is not child of Parent Customer
LMA-STR-038	Child account cannot be a Notional Account $1
LMA-STR-039	Parent Account cannot be an External Account $1
LMA-STR-040	Child of a Notional Account cannot be Sweep Type $1
LMA-STR-041	Pool type account cannot have instruction attached
LMA-STR-042	Pool type account cannot have payment instruction attached $1
LMA-STR-043	Sweep type account should have payment instruction attached $1
LMA-STR-044	Sweep Priority should be defined for Account Ref $1
LMA-STR-045	Reverse sweep Frequency should be assigned is reverse sweep is allowed $1
LMA-STR-046	Child Branch not available
LMA-STR-047	Parent Branch not available
LMA-STR-048	Child Bank not available
LMA-STR-049	Parent Bank not available
LMA-STR-050	Cross Border $1 not allowed for account pair
LMA-STR-051	Domestic not allowed for account pair
LMA-STR-052	Cross Currency not allowed for account pair
LMA-STR-053	Parent Account Currency is null: $1
LMA-STR-054	Child Account Currency is null: $1
LMA-STR-055	Multi Bank not allowed for the Pair as per the maintenance set up
LMA-STR-056	Multi Bank Pool is not allowed
LMA-STR-057	Frequency does not exist in system: $1
LMA-STR-058	MBCC cut off getting failed for account pair $1 for the frequency $1

Table A-1   (Cont.) List of Error Codes and Messages

Error Codes	Error Message
LMA-STR-059	Header Account of a Pool or Hybrid Structure should be Notional Account $1
LMA-STR-060	Header Account of a Pool or Hybrid Structure should have reallocation method defined $1
LMA-STR-061	Acc Level is not correct for account number $1
LMA-STR-062	Account Sweep priority is same for account number $1
LMA-STR-063	Multiple Instruction frequency should be different $1
LMA-STR-064	System Branch does not exist in OBLM
LMA-STR-065	Error in Account Create/Auth
LMA-STR-066	Structure Created and Authorized Successfully $1
LMA-STR-067	Failed to authorize Structure $1
LMA-STR-068	Structure Created Successfully $1
LMA-STR-069	Failed to Create Structure $1
LMA-STR-070	Failed to Create Structure Id:- $1
LMA-STR-071	Customer not mapped with the user
LMA-STR-072	No Customer is mapped with the user
LMA-STR-073	data[0] may not be null
LMA-STR-074	No User Customer Linkage is available
LMA-STR-075	Error in Structure creation
LMA-STR-076	Failed to validate Structure Id $1 as customer mapping is not correct
LMA-STR-077	Structure Modified and Authorized Successfully - $1
LMA-STR-078	Structure Modified Successfully: $1
LMA-STR-079	Failed to Modify Structure: $1
LMA-STR-080	Failed to Modify Structure Id $1
LMA-STR-081	Failed to Modify Structure Id $1 as Previous Version of Structure is not available
LMA-STR-082	Error in Structure modify
LMA-STR-083	Next Run Date Updated..
LMA-STR-084	Account Record Authorized successfully.
LMA-STR-085	Account Record Not Authorized.
LMA-STR-086	Cannot link same Instruction Id more than once for the account $1
LMA-STR-087	Failed to add default payment instructions
LMA-STR-088	Sweep frequency and Reverse sweep frequency should not be the same.
LMA-STR-090	Failed to create structure. Customer/Account does not exist in core.
LMA-STR-091	Selected Structure Priority is already used
LMA-STR-092	Structure Priority list contains duplicates
LMA-STR-093	Structure Priority is already used in a different structure

Table A-1   (Cont.) List of Error Codes and Messages

Error Codes	Error Message
LMA-STR-094	Notional Header Account Number is already used in a different Structure $1
LMA-STR-095	Payment Instructions cannot be empty for participant accounts
LMA-STR-096	Fixed amount cannot be zero in sweep instruction
LMA-STR-097	Record saved successfully
LMA-STR-098	Maker id is null
LMA-STR-099	Save Failed. Real Accounts cannot be used in New prospect.
LMA-STR-100	Save Failed. Header Account should be mapped with IC group.
LMA-STR-101	Structure Creation Failed. Currency Pair is not defined in Common Maintenance.
LMA-STR-102	Save Failed. Invalid Branch.
LMA-STR-103	Save Failed. Invalid Currency.
LMA-STR-104	Save Failed. Customer already present.
LMA-STR-105	Save Failed. Account already present.
LMA-STR-106	The Notional header is closed and interest is liquidated and allocated till date.
LMA-STR-107	IC account of Notional Header is reopened and the IC group maintained earlier has been reinstated.
LMA-STR-108	Authorization of structure closure has failed as the Notional header account could not be closed.
LMA-STR-109	Authorization of structure closure has failed as the liquidation to Notional Header account has failed.
LMA-STR-110	Authorization of structure closure has failed as the IC account of Notional Header could not be closed.
LMA-STR-111	Authorization of structure closure has failed due to an error during the notional account closure.
LMA-STR-112	Authorization of structure closure has failed as the reallocation from the notional header has failed.
LMA-STR-113	Authorization of structure reopen has failed as the IC account of Notional Header could not be reopened.
LMA-STR-114	Authorization of structure reopen has failed as the Notional Header account could not be reopened.
LMA-STR-115	Authorization of structure reopen has failed due to an error during reopen of Notional Header Account.
LMA-STR-116	One or more accounts is repeated in the structure
LMA-STR-117	Ratio structure is reopened. Kindly update the IC required flag to yes and update the account group for all the participant accounts.
LMA-STR-118	Authorization of structure closure has failed as system could not disable IC of participant accounts.

Table A-1   (Cont.) List of Error Codes and Messages

Error Codes	Error Message
LMA-STR-119	Ratio structure is closed. 1. Interest is liquidated and allocated to all the participant accounts till date. 2. IC is disabled and IC group mapping is removed for all structure accounts. 3. To continue normal interest computation at account level, kindly update the IC required flag to yes and update the account group for each LM account.
LMA-STR-120	Authorization of Ratio structure closure has failed as the liquidation of one or more participant accounts has failed.
LMA-STR-121	Authorization of Ratio structure modification has failed as the liquidation of one or more delinked accounts has failed.
LMA-STR-122	Authorization of Ratio structure modification has failed as system could not disable IC of one or more delinked accounts.
LMA-STR-123	Ratio Structure modification is authorized. 1. Interest is liquidated and allocated to all the delinked accounts till date. 2. IC is disabled and IC group mapping is removed for all the delinked accounts. 3. To continue normal interest computation at account level, kindly update the IC required flag to yes and update the account group for all the delinked accounts.
LMA-STR-124	Authorization of structure modification(with account delinking) has failed as the liquidation to Notional Header account has failed.
LMA-STR-125	Authorization of structure modification(with account delinking) has failed as the reallocation from the notional header has failed.
LMA-STR-126	Structure modification is authorized. Interest is liquidated and allocated to all the accounts till date.
LMA-STR-127	Authorization of structure modification has failed due to an error during the liquidation of delinked accounts.
LMA-STR-128	Structure end date should not be before branch date. Please update the structure end date.
LMA-STR-129	This resource is currently locked by another user, cannot acquire lock.
LMA-STR-130	Account and Booking Account should be of same Currency for the accounts participating in Interest/ Advantage Structure. Validation failed for Account/s: $1.
LMA-STR-131	Duplicate Linked Account(s) found in Structure: $1.
LMA-STR-132	Central account and its booking account should be of same currency for Interest/Advantage Structure.
LMA-STR-133	Account(s) already present in different Pool or Hybrid Structure.
LMA-STR-136	Currency Rate Type Does not exist in the system
LMA-STR-137	Branch Date should be before than end date
LMS-BAT-003	Batch Data Next Run date failed.

Table A-1   (Cont.) List of Error Codes and Messages

Error Codes	Error Message
LMS-BAT-012	Batch Data Next Run date updated.
LMA-STR-134	Notional Header is closed and Interest is liquidated and allocated to all the participant accounts till date. IC is disabled and IC group mapping is removed for all structure accounts. To continue normal interest computation at account level, kindly update the 'IC required' flag to 'yes' and update the 'account group' for each LM account.
LMA-STR-135	Interest is liquidated and allocated to all the participant accounts till date. IC is disabled and IC group mapping is removed for accounts. To continue normal interest computation at account level, kindly update the 'IC required' flag to 'yes' and update the ''account group'' for these accounts.
LMA-STR-138	Header account cannot be a drain pool account.
LMA-STR-139	Drain Pool Structure must have at least one drain pool account.
LMA-STR-140	Notional header cannot have a drain pool account as child.
LMA-STR-141	The nominated account $1 should be of the same currency as the Notional header $2.
LMA-STR-142	Pool structure $1 is not active.
LMA-STR-143	Structure is not effective within the drain pool structure's effective and end date.
LMA-STR-144	Structure End Date must be on or before the Pool Structure End Date $1.
LMA-STR-145	The notional header is part of a Hybrid structure and cannot be closed.
LMA-STR-146	The Notional header $1 is already used in a different hybrid structure.
LMX-ERR-001	Exchange rate is not available for currency pair $1 and $2.
LMX-ERR-002	Invalid Request Received. Send Either FromDate and ToDate Or SpecificDate..
LMX-ERR-003	Date format is incorrect in FromDate/ToDate/ SpecificDates Field. Format should be yyyy-MM-dd..
LMM-BRN-003	Branch Validation Failed. BIC Code cannot be empty.
LMA-STR-149	Nominated account $1 should not be directly added in the structure.
LMC-ERR-001	Fixed amount should maintained between the range of defined minimum and maximum amount
LMC-ERR-002	Instruction is assigned to structure(s). Failed to close
LMC-ERR-003	Maximum Amount should be greater than Minimum Amount
LMC-ERR-004	Maximum should be greater than Minimum

Table A-1   (Cont.) List of Error Codes and Messages

Error Codes	Error Message
LMC-ERR-005	Maximum Deficit should be greater than Minimum Deficit
LMC-ERR-006	Fixed amount should not be zero
LMT-MOD-001	Limit Updated Successfully for given Customer
LMT-SAV-002	Limit Saved Successfully for given Customer
LMX-INGT-001	Account Pair Record Already Exists.
LMX-INGT-002	Message already processed for external reference $1.
LMX-INGT-003	Account Updated Successfully.
LMX-IOERR-001	Balances not available
LMX-IOERR-002	Generic Exception during SDE processing
PLATO-EVNT-001	Failed to update
PLATO-EVNT-002	Record already exists
RMLINK-COM-001	User cannot create/modify own records.
RMLINK-COM-002	Cannot authorize own linkage record.
REP-SAVE-050	Simulation Advice generated successfully.
REP-ERR-051	Simulation Advice generation is In-progress.
REP-ERR-052	Simulation Advice generation has not been initiated.
REP-ERR-053	Failed to update simulation report status.
REP-SAVE-053	Simulation Report status updated successfully.
RTL-ERR-001	RTL Structure for account does not exist.
REP-ERR-050	Simulation Advice generation failed.
SI-SUC-200	Sweep simulation executed for structure(s)
SW-ERR-001	Sweep not allowed at System level
SW-ERR-002	Structure is not active or paused
SW-ERR-003	Header account is not active
SW-ERR-004	Sweep already pending for structure
SW-ERR-005	Structure $1 does not exist or not active.
SW-ERR-006	No Structure selected.
SW-ERR-007	No Acc pair selected.
SW-ERR-008	Structure is not active:- $1
SW-ERR-009	Sweep Failed for Structures:- $1
SW-ERR-010	Sweep executed for Structures.
SW-ERR-011	Account Pair Record Already Exists.
SW-ERR-012	Structure Sweep Record Already Exists.
SW-ERR-013	User does not have necessary roles/activity assigned.
SW-ERR-014	Previous handoff is not completed for account pair $1
SW-ERR-016	No system account exist for this ID
SW-ERR-017	Failed while creating System Account
SW-ERR-018	System Account created successfully
SW-ERR-019	Failed while creating and authorizing IC Account

Table A-1   (Cont.) List of Error Codes and Messages

Error Codes	Error Message
SW-ERR-020	IC Account created and authorized successfully
SW-ERR-021	Failed while recording repayment for Reverse Sweep :- $1
SW-ERR-022	Failed while rejecting loan for Sweep Log :- $1
SW-ERR-023	Failed while activating loan for Sweep Log :- $1
SW-ERR-024	Failed while creating VD balance record in IC for system account :- $1
SW-ERR-025	Internal VD balance record created successfully
SW-ERR-026	Failed while creating internal VD balance record for system account :- $1
SW-ERR-027	Failed while updating internal VD balance record for system account :- $1
SW-ERR-028	Internal VD balance record updated successfully
SW-ERR-029	Failed while updating System Account - $1
SW-ERR-030	IC Account successfully updated for account number :- $1
SW-ERR-031	Failed while updating IC Account for account number :- $1
SW-ERR-032	No system account exists for Account Number :- $1
SW-ERR-033	Failed to record repayment on loan with Sweep Log ID :- $1
SW-ERR-034	VD balance updated successfully
SW-ERR-035	No system account exists for sweep ID :- $1
SW-ERR-036	Simulation initiated. Advice will be available for download in sometime.
SW-ERR-037	Simulation failed.
SW-ERR-038	Simulation is In-progress.
SW-ERR-039	Simulation not initiated. Advice can be generated only for maximum of 365 days.
SW-ERR-040	Unable to fetch account details
SW-ERR-041	Structure validations failed
SW-ERR-042	Unknown error during balance fetch
SW-ERR-043	Instruction $1 is in suspension period
SW-ERR-044	Sweep failed in Local/Currency Holiday validation, Please check related maintenances
ST-AUTH-001	Current Branch should be $1 to perform this operation
SW-DP-ERR-422	Exception during Drain Pool Execution:- $1.
ST-SAVE-027	Request Successfully Processed
ST-SAVE-027	Request Successfully Processed
SRV-MOD-002	Authorization pending for previous modification
SRV-MOD-001	Record not found, invalid ID
ST-SAVE-027	Request Successfully Processed
VLC-DEC-001	Invalid event
VLC-DEC-002	Invalid Pricing Scheme

Table A-1   (Cont.) List of Error Codes and Messages

Error Codes	Error Message
VLC-DEC-003	Mandatory Fields are missing
VLC-DEC-004	At least one Charge -Rule decision is mandatory
VLC-DEC-006	Effective date cannot be a past date
VLC-DEC-007	Expiry date should always greater than Effective Date
VLC-DEC-009	Mandatory fields are missing in Charge Decision details
VLC-DEC-010	Invalid Charge Type. It should be either customer/ structure
VLC-DEC-011	Invalid Charge code
VLC-DEC-013	Invalid Charge criteria for input event and charge type
VLC-DEC-014	Obvam setup charge has to be defined at customer level
VLC-DEC-015	Structure setup charge has to be defined at structure level
VLC-DEC-016	Invalid value for frequency
VLC-DEC-017	Parent charge code is mandatory when charge crtiteria is Parent charge code
VLC-DEC-018	Combination of Charge Code, Pricing Rule and Criteria value should be unique for a specific charge decision
VLC-DEC-019	Pricing Scheme mapped to any Decison or Customer cannot be closed
VLC-DEC-020	Record cannot be closed as the charge rule is mapped to active charge decision/s
VLC-DEC-021	Charge Decision cannot be reopened as either linked pricing scheme or charge rule or charge code is closed
VLC-DEC-022	OBLM setup charge has to be defined at customer level
VLC-DEF-001	Mandatory Fields are missing
VLC-DEF-002	Incorrect value for charge category
VLC-DEF-003	Invalid Credit charge account
VLC-DEF-004	Invalid transaction code
VLC-DEF-005	There are active charge decisions for this charge code
VLC-PDC-001	Mandatory Fields are missing
VLC-PDC-002	The customer is not mapped to pricing schme
VLC-PDC-004	At least one Charge -Rule decision is mandatory
VLC-PDC-006	Effective date cannot be a past date
VLC-PDC-007	Expiry date should always greater than Effective Date
VLC-PDC-009	Mandatory fields are missing in Charge Decision details
VLC-PDC-010	Invalid Charge Type. It should be either customer/ structure

ORACLE

Table A-1   (Cont.) List of Error Codes and Messages

Error Codes	Error Message
VLC-PDC-011	Invalid Charge code
VLC-PDC-013	Invalid Charge criteria for the charge type
VLC-POST-001	No matching entry for the given charge ref number with external status
VLC-POST-002	posted amount and exchange rate are mandatory when charge currency is different from account currency
VLC-POST-003	Successfully updated posting entries

Index