# Troubleshooting Guide

# **Oracle Banking Liquidity Management**

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#### **Troubleshooting Guide**

**Oracle Financial Services Software Limited** Oracle Park Off Western Express Highway Goregaon (East) Mumbai, Maharashtra 400 063 India Worldwide Inquiries: Phone: +91 22 6718 3000 Fax: +91 22 6718 3001 https://www.oracle.com/industries/financial-services/index.html

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# 1 Introduction

# 1.1 About this Guide

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 <a href="http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc">http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc</a>.

# 1.4 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

Торіс	Description
Introduction	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. This includes UI side checking, Service side logs, tracing using zipkin, debugging using ELK stack and some environment issues of weblogic
Health Checks	This chapter describes the health check measures and observability required.
Troubleshooting Functional Workflows	This chapter describes the Oracle Banking Liquidity Management specific troubleshooting of flows and specific data stores that can be checked for issues.

## Table 1: List of Topics



Business Error Codes	This chapter provides the list of error codes expected out of Oracle Banking
	Liquidity Management

# 1.5 Prerequisites

Г

The prerequisites are as follows:

- Basic understanding of Eventing platform
- Basic understanding application log analysis using tools.
- Basic understanding DB changes.

The following softwares should be pre-installed.

- Zipkin
- Kafka
- ELK
- Any SQL Database like SQLDEVELOPER
- WinSCP

## **1.6 General Prevention**

Do not make changes to Flyway scripts manually.

## **1.7 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.



# 2 Troubleshooting Technical Flows

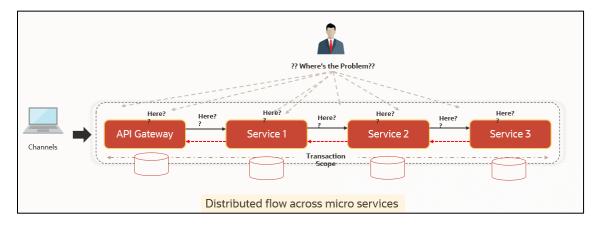
This chapter describes various programming issues, possible causes, and solutions to resolve the issues. This topic contains the following sections:

- 2.1 Where is the problem
- 2.2 Preliminary checks from UI
- 2.3 Preliminary checks from Service Log files
- 2.4 Troubleshooting using Zipkin Traces
- 2.5 Troubleshooting Logs using ELK stack
- 2.6 Troubleshooting Logs Kafka issues
- 2.7 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



# 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

🕞 🖬 Elements Console Sources Network	Application Perfor	rmance Lightho	use Memory Security			86
🔵 🛇   🍸 🔍   🗹 Preserve log 🗌 Disable cache   N	o throttling 🔻 🕴	<u>+</u> <u>+</u>				
Filter 🗌 Hide data URLs 📶 XHR J	IS CSS Img Media	Font Doc WS	Manifest Other 🗌 Has block	ed cookies 🗌 Blocked Requests		
Use large request rows			Froup by frame			
Show overview			apture screenshots			
Name	Status	Туре	Initiator	Size	T.,	Waterfall
tiles?userId=OBLM02&branchCode=LMB	200	xhr	jquery-3.5.1.min.js:2	3.1 k	B 1	
currencyliability	200	preflight	Preflight 🚱	0	B 4	
topcustomersbalances	200	preflight	Preflight 🚱	0	B 4	
topcustomersweeps	200	preflight	Preflight 🚱	0	B 5	
crossborder	200	preflight	Preflight 🚯	0	B 5	
events?eventType=P	200	preflight	Preflight 🚱	0	B 5	
events?eventType=E	200	preflight	Preflight 🚱	0	B 4	
events?eventType=A	200	preflight	Preflight 🚱	0	B 6	
currencyliability	200	xhr	jquery-3.5.1.min.js:2	1.0 k	В З	
topcustomersbalances	200	xhr	jquery-3.5.1.min.js:2	1.8 k	B 5	
topcustomersweeps	200	xhr	jquery-3.5.1.min.js:2	1.7 k	B 4	
crossborder	200	xhr	jquery-3.5.1.min.js:2	542	В 6	
events?eventType=P	200	xhr	jquery-3.5.1.min.js:2	20.1 k	B 8	
events?eventType=E	200	xhr	jquery-3.5.1.min.js:2	236 k	B 2	
events?eventType=A	200	xhr	jquery-3.5.1.min.js:2	2.0 M	В 7	

#### Figure 3: Non 2xx response

Branch Parameters						,,* ×
Mod Number 2 Compare						
Done By OBLM02 Done On 11/30/2018 Record Status O	S Error		×			
Once Auth Y Visw	Maker cannot authorize		1			
View			ок			
					Cancel	Approve
View Branch Parameters 🦨 Branch Parameters 🦨						
🕞 🖬 Elements Console Sources Network Application Per	formance Lighthouse	Memory Security		8	<b>A</b> 4 🗘	: ×
● 🛇   🗑 Q,   🗹 Preserve log 🗆 Disable cache   No throttling 🔻	<u>*</u> <u>*</u>					•
Filter Hide data URLs All XHR JS CSS Img Med	dia Font Doc WS Man	ifest Other 🗌 Has blo	ocked cookies 🔲 Blocked Requests			
Use large request rows		Group by f	rame			
Show overview		Capture sc	reenshots			
Name	Status	Туре	Initiator	Size	T Water	fall ▲
approve	200	preflight	Preflight 🚱	0 B	9 📕	
approve	400	xhr	jquery-3.5.1.min.js:2	924 B	9	
o error.png	200	png	fsgbu-ob-cmn-ct-alert.css	(disk cache)	1	



#### Figure 4: Details of Non 2xx Response

Branch Parameters		$_{\mu }^{\mu } \ \times$
Mod Number 2 Compar		
Done By OBLM02 Done On 11/30/2018	Error ×	
View Branch Parameters 🥜 Branch Parameters 🖉	Maker cannot authorize	
🕞 💼   Elements Console Sources Ne	twork Application Performance Lighthouse Memory Security	: ×
🕚 🛇   🝸 🔍   🗹 Preserve log 🗌 Disable o	ache   No throttling 🔻 🛓 🛓	•
Filter 🗌 Hide data URLs 🗛	NHR JS CSS Img Media Font Doc WS Manifest Other 🗌 Has blocked cookies 🗌 Blocked Requests	
Use large request rows	Group by frame	
Show overview	Capture screenshots	
Name	× Headers Preview Response Initiator Timing	
approve	* General	-
approve	Request URL: http://whf00bjo.in.oracle.com:7007/api-gateway/o <mark>blm-maintenance-service</mark> s/branch/d24a66cd-93c5-4394-bb2a-6465385adfdb/approve	
o error.png	Request Method: PATCH	- 1
	Status Code: 🖷 👍 Bad Request	- 1
	Remote Address: 10.40.138.30:7007	
	Referrer Policy: strict-origin-when-cross-origin	
	▼ Response Headers View source	
	Access-Control-Allow-Credentials: true	
	Access-Control-Allow-Headers	
	Access-Control-Allow-Headers	
3 requests 924 B transferred 5.7 kB resources	Access-Control-Allow-Methods: GET, POST, PUT, DELETE, OPTIONS, HEAD, PATCH	

Branch Parameters		
Mod Number 2 Company	•	
Done By OBLM02 Done On 11/30/2018	😒 Error	×
View Branch Parameters 🦨 Branch Parameters 🦨	Maker cannot authorize	1
🕞 🔂 Elements Console Sources Ne	twork Application Performance Lighthouse Memory	y Security
● 🛇   😽 🔍   🗹 Preserve log 🗌 Disable c	ache 🛛 No throttling 🔻 🛓 🛓	
Filter Dide data URLs A	XHR JS CSS Img Media Font Doc WS Manifest Othe	er 🗌 Has blocked cookies 📄 Blocked Requests
Use large request rows		Group by frame
Show overview		Capture screenshots
Name	× Headers Preview Response Initiator Timing	
approve approve error.png	<pre>vcodes: [,_] ve: {args: null, arg: null, information: false arg: null code: "GCS-AUTH-03" desc: "Maker cannot authorize" error: true information: false language: "ENG" overrideAuthLevelsReqd: null type: "E"</pre>	85adfdb", status: "FAILURE", codes: [,_], requestId: null,} e, override: false, error: true, overrideAuthLevelsReqd: null,}
3 requests 924 B transferred 5.7 kB resources	httpStatusCode: null	

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.



# 2.3 Preliminary checks from Service Log files

Each micro service sub domain war deployments can generate the log files in weblogic server. The configuration of this log can be found at logback.xml

```
<root level="INFO">
```

```
<appender-ref ref="FILE" />
```

</root>

In production scenarios, it is wise to ensure the root level is configured as ERROR so that log files doesn't get overwhelmed

Refer Weblogic documentation to know the path where these files are generated. In on-premises cases, these log files can be zipped and send for remote troubleshooting purposes.



# 2.4 Troubleshooting using Zipkin Traces

# 2.4.1 Setting Zipkin Server

Refer the below document for Zipkin installation.

https://docs.oracle.com/cd/F41688\_01/PDF/Installation\_Guide/ANNEXURE-2.pdf

# 2.4.2 Login to Zipkin

The basic layout of Zipkin looks as follows

#### Figure 6: Layout of Zipkin

zipkin	Span Name	~	all	~	15 minutes	5	
Annotation Query			Duration (µs) > =	Limit		Sort	
For example: http.path=/foo/ba	ar/ and cluster=foo and cache.miss		Ex: 100ms or 5s	10		Longest First	
Find Traces							
Please select the criteria for your	trace lookup.						

We can find the traces of required API calls and services using the above search options given in the user interface. The search options given in the user interface are self-explanatory and there is another UI option (Try Lens UI). It's given a different user interface with the same functionality.

#### Figure 7: List of Traces

Service Name Sp	an Name		Remote Service Name		Lookback		
zipkin 🗸 a	II	~	all	~	1 hour		,
Annotation Query			Duration ( $\mu$ s) > =	Limit		Sort	
For example: http.path=/foo/bar/ and clus	ter=foo and cache.miss		Ex: 100ms or 5s	10		Longest First	•
Find Traces							
Showing: 4 of 4						Id	SON 📩
Services: zipkin						15	
2.163s 5 spans							
zipkin 100%							
pkin x5 2.163s						18 min	utes a
1.449s 4 spans							
zipkin 100%							
pkin x4 1.449s						22 min	utes a
1.430s 4 spans							



The list of the traces can be seen as the above screen. I made some error API calls to showcase how to track errors. The blue listings show the successful API hits and the red listings indicate errors. Each block indicates a single trace in the listings.

Opening an individual trace shows the below-shown screen.

#### Go to trace Duration: 2.163s Services: 1 Depth: 🛐 Total Spans: 🖪 JSON 🚣 Expand All Collapse All zinkin x4 865.278ms 1.731s 2.163s 432.639m 1.298s -2.163s : http:/api1 1.001s : api1 0 1.068s : http://api2 1.001s : api2

#### Figure 8: Individual Trace

The above-shown image describes the time taken for each block. As I created 2 custom spans inside 2 service calls, we can find a total of 4 blocks. The time taken for an individual block can be seen above. Clicking an individual block shows the following details.

Investigate system	Date Time	Relative	e Time	Annotation	Address		Sear
	9/10/2019, 4:11:23 PM			Server Start	10.184.89.16:8080 (zipkin)		
	9/10/2019, 4:11:25 PM	2.163s		Server Finish	10.184.89.16:8080 (zipkin)		
Duration: 2.163s	Кеу		Value				ISON
Expand All Collapse	http.host		localhost	t			
	http.method		GET				
zipkin x4	http.path		/api1				
Services	http.status_code		200			731s	
E zipkin −2.1€	http.url		http://lo	calhost:8080/api1			
zipkin · 1.	mvc.controller.class		Controlle	er			
zipkin ·	mvc.controller.method		api1				
	spring.instance_id		eswarpe	rabathini.in.oracle.c	om:Zipkin		
	Show IDs						
	traceld	9d6	3642d72al	o6f9f			
	spanId	9d6	3642d72ab	o6f9f			

Figure 9: Details of Individual Block

The details of the specific span block are shown above, and the logging events can also be seen in the Zipkin UI as small circular blocks. An example of an error log is shown below.



#### Figure 10: Sample Error Log

Duration: 1.026	S Services: 1	Depth: 2	Total Spans: 3			JSON 🛓
Expand All	Collapse All					
zipkin x3						
ervices zipkin	-1.026s : http:/api1	205.134ms	410.267ms	615.401ms	820.534ms	1.0
zipkin	1.001s : api1					
zipkin						

Clicking on the error portion gives a clear detail about the error and where the error has arisen. An example is shown below.

sten Services: zip	- KIII			
Date Time		Relative Time	Annotation	Address
9/11/2019, 6:09:	01 PM		Server Start	10.184.89.16:8080 (zipkin)
9/11/2019, 6:09:0	02 PM	1.026s	Server Finish	10.184.89.16:8080 (zipkin)
se , Key	Valu	e		
error		uest processing failed erErrorException: 500		is org.springframework.web.client.Http
http.host	loca	host		
<sup>26</sup> http.method	GET			
http.path	/api	1		
http.status_code	500			
http.url	http	://localhost:8080/api	1	
mvc.controller.cl	ass Basi	ErrorController		
mvc.controller.m	ethod erro	rHtml		
spring.instance_i	d agui	arperabathini.in.oracle	a comiZinkin	

Figure 11: Details of Error

If the Lens UI is used in Zipkin, the above screenshots are not applicable but are relatable to the Lens UI as well.

Traces of the application can be found using Traceld, which can be found in the debug logs of the deployment when spring-cloud-sleuth is included in the dependencies (Included in spring-cloud-starter-zipkin dependency). Clicking the dependency tab gives the dependency graph info between micro-services. An example dependency graph is shown below.



#### Figure 12: Sample Dependency Graph

Zipkin ı	nvestigate system behav	vior Find a trace	Dependenc	cies		
Start time	2018-02-19	13:30	End time	2018-02-20	13:39	Analyze Dependencies
frontend		todos-api			g-message-processor	

## 2.4.3 Zipkin Issues

## 2.4.3.1 Application service not registered

Perform the following steps to find the cause of this error:

 Check the applications, which are sending the trace report to zipkin server from Service Name drop-down list.

Figure 13: Find Traces

Service Name		Span Name	Lookback		
oblm-maintenance-services	^	all	✓ 1 hour		
	Q		Duration (µs) >=	Limit	Sort
obic-interest-batch-services	^	o and cache.miss	Ex: 100ms or 5s	10	Longest First
oblm-batch-services					
oblm-cash-concentration-services	- 8				
oblm-dashboard-services	- 1				JSON
oblm-integration-services	- 1				
✓ oblm-maintenance-services					

Service Name	Span Name	Lookback		
oblm-maintenance-services V	all	1 hour		
Annotation Query	م nttp://opim-maintenance-services/account	Duration (µs) >=	Limit	Sort
For example: http.path=/foo/bar/ and cluster=foo	http:/oblm-maintenance- services/account/updatebala	Ex: 100ms or 5s	10	Longest First
Find Traces 3	http:/oblm-maintenance- services/application			JSON 🛓
ervices: oblm-maintenance-services	http://oblm-maintenance-services/branch			
0.007	http:/oblm-maintenance- services/customer			
i8.997ms 9 spans olm-maintenance-services 37%	http:/oblm-maintenance-			



2. If the required application is not listed in Zipkins, check the application.yml file for zipkin base URL configuration. The shipped application.yml should have the zipkin entry.

Figure 14: Application.yml File

Blogbackxml ♥ application.yml ≅ 1# Copyright (c) 2016, Oracle. All rights reserved.
2 spring:
3 application:
4 name: oblm-maintenance-services
5 main:
6 allow-bean-definition-overriding: true
7 autoconfigure:
8 exclude: org.springframework.boot.autoconfigure_idbc.DataSourceAutoConfiguration, org.springframew
9 zipkin:
<pre>10 baseUrl: \${plato.services.zipkin.url:http://localhost:9411}</pre>
11 service:
<pre>12 name: \${spring.application.name}</pre>
13 sender:
14 type: \${plato.services.zipkin.sender.type:web}
15 sleuth: 16 sampler:
<pre>17 percentage: \${plato.services.sleuth.sampler.percentage:0.1} 18</pre>
19eureka:
20 instance:
21 prefer-ip-address: true
22 securePortEnabled: \${isSslEnabled:false}
23 client:
24 registerWithEureka: true
25 fetchRegistry: true
26# preferSameZone: true

**NOTE:** Every service should have **spring-cloud-sleuth-zipkin** dependency added in build gradle file for the service to generate and send trace Id and span Id.

Compile group: 'org.springframework.cloud', name: 'spring-cloud-sleuth-zipkin', version: '2.1.2.RELEASE'.

Figure 15: Branch Common Services

Service Name		Span Name		Lookback			
oblm-maintenance-services	~	all	$\sim$	1 hour			
Annotation Query				Duration (µs) >=	Limit	Sort	
For example: http.path=/foo/bar/ and	d cluster=fo	o and cache.miss		Ex: 100ms or 5s	10	Longest First	`
Showing: 10 of 10						JSON .	2
Services: oblm-maintenance-services 258.997ms 9 spans						3504	ž
Services: oblm-maintenance-services	ance-services x	2 97.974ms ami-core-services x2 51.652ms	]			44 minu	
Services: oblm-maintenance-services 258.997ms 9 spans 258.mmaintenance-services 37%	nance-services x	2 07.674ms ami-core-services x2 31.652ms	)				
Services: Administration structures 255.997ms 9 spans bblm-maintenance-services 37% dm&stcbservices 323.977m testmensinten 256.606ms 9 spans bblm-maintenance-services 37%						44 minu	utes :
Services: ebins-maintenance-services 258.997ms 9 spans bbim-maintenance-services 37% blm-batch-services 329.997ms obtim-mainten 256.606ms 9 spans							utes :
Services: Administration structures 255.997ms 9 spans bblm-maintenance-services 37% dm&stcbservices 323.977m testmensinten 256.606ms 9 spans bblm-maintenance-services 37%						44 minu	utes



#### Figure 16: Branch Common Services Trace

Duration: 683.981m		oblm-maintena services/branch		es.http:/ob	lm-maintenance- ×	
Expand All Collapse All		Services: oblm-ma	intenance-servic	es,oblm-sweep	services	
cmc-branch-services x2 oblm-batch-service	s x2 oblm-integration-services x4 obl	Date Time	Relative Time	Annotation	Address	
		5/4/2021, 8:15:00 PM	258ms	Client Start	10.40.74.62:7203 (oblm-sweep-services)	
ervices	136.79	5/4/2021, 8:15:00 PM	259ms	Server Start	10.40.74.62:7205 (oblm-maintenance-services)	\$47.185ms
oblm-batch-services -683.981ms : process		5/4/2021, 8:15:00 PM	302.817ms	Server Finish	10.40.74.62:7205 (oblm-maintenance-services)	
oblm-integration-services - 678ms : http:/oblm	-integration-services/transactionlog/pro 45ms : http:/sms-c	5/4/2021, 8:15:00 PM	308ms	Client Finish	10.40.74.62:7203 (oblm-sweep-services)	· · · · · · · · · · · · · · · · · · ·
oblm-sweep-services		Key	Value			
oblm-maintenance-service		http.host	oblm-maintenar	nce-services		
oblm-structure-services		http.method	GET			
sms-core-services		http.path	/oblm-maintena	ance-services/bi	anch	http:/cmc-branch-senvices/systemdates
sms-core-services		http.url	http://oblm-mai e=LMB	intenance-servi	es/oblm-maintenance-services/branch?branchCod	48ms : http:/sms-core-service/rbac
		spring.instance_id	whf00gld.in.orad	cle.com:oblm-sv	eep-services:7203	
		mvc.controller.class	LmmTmBranchP	arametersApiC	ntroller	
		mvc.controller.method	getAll			
		spring.instance_id	whf00gld.in.orad	cle.com:oblm-m	aintenance-services:7205	
		Show IDs				

## 2.4.3.2 404 error

If there is 404 error, check if the zipkin-server.jar is running in the system where the application is deployed.

To check this execute the following command

netstat -ltnup | grep ':9411'

output should be like:

tcp6	0	0 :::9411	*	LISTEN	10892/java
iopo	0	0	•••		10052/java

Here 10892 is the PID.

#### 2.4.3.3 Unable to change zipkin default port number

Zipkin default port number is not editable. Hence, verify that the port 9411 is available to start Zipkin-server.jar file. Also check if the zipkin url is provided for the services in the PROPERTIES table.

#### SELECT \* FROM PROPERTIES WHERE KEY LIKE '%zipkin%'

#### Figure 17: ELK Setup

	<pre>select * from Properties where key like '%z.</pre>	ıp∦ın%'			
•					
Quer	y Result ×				
	🙀 🍓 SQL   All Rows Fetched: 30 in 0.674 seconds				
	Image: SQL         All Rows Fetched: 30 in 0.674 seconds           ID         Image: Application	PROFILE	label	∯ KEY	
1		<pre>     PROFILE     jdbc </pre>	∲LABEL jdbc	<pre>&amp; KEY plato.services.zipkin.url</pre>	V
1	ID	<u>v</u>	v	V	http://localhost:9411
1 2 3	ID	jdbc	jdbc	plato.services.zipkin.url	http://localhost:9411 http://localhost:9411



# 2.5 Troubleshooting Logs using ELK stack

## 2.5.1 Setting up ELK

Download the Elastic search from https://www.elastic.co/downloads/elasticsearch

Kibana download https://www.elastic.co/downloads/kibana

Logstash download https://www.elastic.co/downloads/logstash

Default port for Elastic search- 9200

Default port for Kibana- 5601

#### Step to run ELK:

Run the elasticsearch.sh file present inside /scratch/software/ELK/elasticsearch-6.5.1/bin

- Edit network.host to "localhost" and port if necessary. This should be enough for it to run.
- Start: nohup bin/elasticsearch &

Configure Kibana to point the running instance of elastic search in kibana.yml file as below.

#### Figure 18: Logstash Configuration

```
# Kibana is served by a back end server. This setting specifies the port to use.
#server.port: 5801
# Specifies the address to which the Kibana server will bind. IP addresses and host names are both valid values.
# The default is 'localhost', which usually means remote machines will not be able to connect.
# The default is 'localhost', which usually means remote machines will not be able to connect.
# The default is 'localhost', which usually means remote machines will not be able to connect.
# The default is 'localhost', which usually means remote machines will not be able to connect.
# The default is 'localhost', which usually means remote machines will not be able to connect.
# To allow connections from remote users, set this parameter to a non-loopback address.
server.host: "whf00peb"
# Enables you to specify a path to mount Kibana at if you are running behind a proxy.
# Use the 'server.rewriteBasePath' setting to tell Kibana if it should remove the basePath
# from requests it receives, and to prevent a deprecation warning at startup.
# This setting cannot end in a slash.
#server.basePath: ""
# Specifies whether Kibana should rewrite requests that are prefixed with
# 'server.basePath' or require that they are rewritten by your reverse proxy.
# This setting was effectively always 'false' before Kibana 6.3 and will
# default o' true' starting in Kibana 7.0.
#server.rewriteBasePath: false
# The maximum payload size in bytes for incoming server requests.
#server.maxPayloadBytes: 1048576
# The Kibana server's name. This is used for display purposes.
#server.name: "your-hostname"
# The URL of the Elasticsearch instance to use for all your queries.
elasticsearch.url: "http://localhost:9200"
```

# When this setting's value is true Kibana uses the hostname specified in the server.host



Configuring Logstash consists of 3 steps:

- 1. **Input-** This configuration is required to provide the log file location for the Logstash to read from.
- 2. **Filter-** Filters in logstash is basically used to control or format the read operation(Line by line or Bulk read)
- 3. **Output-** In this section we provide the running elastic search instance to send the data for persisting.

Figure 19: Kibana

```
logstash.conf
#Point to the application logs
input {
  beats {
   port => 5044
  }
#Provide the parsing logic to transform logs into JSON
filter {
# Adding @metadata needed for index sharding to Filebeat logs
 mutate {
   copy => {
      "[fields][app_name]" => "[@metadata][app_name]"
      "[fields][env]" => "[@metadata][envt]"
    }
  }
  #If log line contains tab character followed by 'at' then we will tag that entry as stacktrace
  if [message] =~ "\tat" {
    grok {
      match => ["message", "^(\tat)"]
      add_tag => ["stacktrace"]
    }
  }
```



# 2.5.2 Accessing Kibana

- Goto path ../kibana-7.8.1-linux-x86\_64/config/kibana.yml
- Edit server.host: "0.0.0.0" for access outside host and server.port: <any port, defaults to 5601>
- Validate elasticsearch properties it defaults to localhost:9200
- Goto : http://host:port you should be able to see the Kibana console UI. Kibana needs elasticsearch to be UP as it creates indexes & fetches logs from it.
- Start: nohup bin/kibana &

#### Figure 20: Accessing Kibana

file* ~	9				5,473,762 hits			
Q Search field names			May 6, 20	021@00:00:00.000	- May 6, 2021 @ 23:59:59.999	Auto 🗸		
(=) Filter by type 0	4000000							
Selected fields	3000000							
@source	tto 2000000							
Available fields	1000000							
t _id								
t _index	00:00	03:00	06:00	09-00	12:00	15:00	18-00	21:00
.score					@timestamp per 30 minutes			
t _type	Time 🗸	_source						
Otimestamp	> May 6, 2021 @ 14:16:43	.680 Stimostom M	ALL 6 2021 0 14-16-42	100 los offesti 4	139,505 log.file.path: /scr	atab (ablm/raquast las	a (abla cuesa coruinas	OPDV02 1 MP 2021 04 20 1og
t agent.ephemeral_id	,	sermencomp. I			ices, DEFAULTENTITY, 4626ca22a			
t agent.hostname					Inside retrieveResponse inp			
		host.containe	rized: false host.ip:	100.76.140.18 host	mac: 02:00:17:00:ab:8c hos	st.name: fsgbu-mum-63	8 host.hostname: fsgl	bu-mum-638
t agent.id		host.architec	ture: x86_64 host.os.v	ersion: 7.8 host.c	os.family: host.os.name: 0	racle Linux Server h	ost.os.kernel: 4.14.3	5-2047.501.2.el7uek.x86_64
t agent.name	> May 6, 2021 @ 14:16:43				5.8 message: 2021-04-29 08			5-2047.501.2.el7uek.x86_64
t agent.type	> May 6, 2021 € 14:16:43	.680 @timestamp: M	ay 6, 2021 © 14:16:43.0	680 ecs.version: 1		:01:36.388 INFO [obl:	n-sweep-	
t agent.name t agent.type t agent.version	> May 6, 2021 € 14:16:43	.680 Øtimestamp: M services,DEFAL	ay 6, 2021 © 14:16:43. JLTENTITY,4626ca22aee77	680 ecs.version: 1 821,4626ca22aee7782	.6.0 message: 2021-04-29 08	:01:36.388 INFO [obl: 82] [LMB] 8233 [	n-sweep- (self-tuning)'] o.f.o	o.s.lms.cache.AbstractTimer
t agent.type	> Møy 6, 2021 € 14:16:43	.680 Stimestamp: M services,DEFAL Retrieving [{} fields.app_na	ay 6, 2021 Ø 14:16:43. JLTENTITY,4626ca22aee77 e] from cache.branchPar me: oblm fields.env: [	588 ecs.version: 1 821,4626ca22aee778 am-LMB log.offset: DEV input.type: log	.6.0 message: 2021-04-29 08 21,true] [null] [null] [OBDX 4,139,734 log.file.path: / g host.id: f034aa8640214668	:01:36.388 INFO [obl 02] [LMB] 8233 [ scratch/oblm/request a4370235346a5977 hos	n-sweep- (self-tuning)'] o.f.o -logs/oblm-sweep-serv: t.containerized: false	o.s.lms.cache.AbstractTimero ices_OBDX02_LMB_2021-04-29. e host.ip: 100.76.140.18
t agent.name t agent.type t agent.version	> May 6, 2021 € 14:16:43	.680 Stimestamp: M services,DEFAL Retrieving [{} fields.app_na	ay 6, 2021 Ø 14:16:43. JLTENTITY,4626ca22aee77 e] from cache.branchPar me: oblm fields.env: [	588 ecs.version: 1 821,4626ca22aee778 am-LMB log.offset: DEV input.type: log	.6.0 message: 2021-04-29 08 21.true] [null] [null] [OBDX 4.139,734 log.file.path: /	:01:36.388 INFO [obl 02] [LMB] 8233 [ scratch/oblm/request a4370235346a5977 hos	n-sweep- (self-tuning)'] o.f.o -logs/oblm-sweep-serv: t.containerized: false	o.s.lms.cache.AbstractTimero ices_OBDX02_LMB_2021-04-29. e host.ip: 100.76.140.18
t agent.name t agent.type t agent.version t ecs.version	<ul> <li>&gt; Møy 6, 2021 @ 14:16:43</li> <li>&gt; Møy 6, 2021 @ 14:16:43</li> </ul>	.680 #timestamp: M services,DEFAL Retrieving [{} fields.app_na host.mac: 02:	ay 6, 2021 © 14:16:43. ULTENTITY,4626ca22aee77 :] from cache.branchPar me: oblm fields.env: [ 00:17:00:ab:8c host.hc	688 ecs.version: 1 821,4626ca22aee7783 am-LMB log.offset: )EV input.type: log stname: fsgbu-mum-	.6.0 message: 2021-04-29 08 21,true] [null] [null] [OBDX 4,139,734 log.file.path: / g host.id: f034aa8640214668	:01:36.388 INFO [obln 82] [LMB] 8233 [ scratch/oblm/request 94370235346a5977 hos 64 host.name: fsgbu-	n-sweep- (self-tuning)'] o.f.o -logs/oblm-sweep-serv t.containerized: fals mum-638 host.os.vers	o.s.lms.cache.AbstractTimer( ices_OBDX02_LMB_2021-04-29, e host.lp: 100.76.140.18 icn: 7.8 host.os.family:
t agent.name t agent.type t agent.version t ecs.version t fields.app.name		.680 Stimestamp: M services,DEFAL Retrieving [{} fields.app.na host.mac: 02: .680 Stimestamp: M	ay 6, 2021 © 14:16:43. LTENTITY,4626ca22aee77 :] from cache.branchPar me: oblm fields.env: [ 00:17:00:ab:8c host.hc ay 6, 2021 © 14:16:43.	688 ecs.version: 1 821,4626ca22aee7783 am-LMB log.offset: DEV input.type: log sstname: fsgbu-mum- 680 host.container	.6.0 message: 2021-04-29 08 11,true] [null] [null] [0BDX 4,139,734 log.file.path: / j host.id: f034as0640214660 638 host.architecture: x06_	:01:36.388 INFO [obl 82] [LMB] 8233 [ scratch/oblm/request 94370235346a5977 hos 64 host.name: fsgbu- .140.18 host.mac: 02	n-sweep- (self-tuning)'] o.f.o -logs/oblm-sweep-serv; t.containerized: fals: mum-638  host.os.vers; :00:17:00:ab:8c  host.	o.s.lms.cache.AbstractTimerd ices_OBDX02_LM8_2021-04-29, e host.ip: 100.76.140.18 icn: 7.8 host.os.family: .hostname: fsgbu-mum-638
t agent.name t agent.type t agent.version t ecs.version t fields.app_name t fields.env		.680 Stimestamp: M services,DEFAL Retrieving [{} fields.app.ma host.mac: 02: .680 Stimestamp: M host.architec	ay 6, 2021 © 14:16:43. ULTENTITY,4626ca22ae77 ] from cache.branchPar me: oblm fields.env: [ 00:17:00:ab:8c host.ho ay 6, 2021 © 14:16:43. ture: x86_64 host.name	688 ecs.version: 1 821,4626ca22aee778; am-LMB log.offset: DEV input.type: log istname: fsgbu-mum- 580 host.container :: fsgbu-mum-638 hc	.6.0 message: 2021-04-29 08 21,true] [null] [null] [080X 4,139,734 log.file.path: / ) host.id: f034as06402146c0x 630 host.architecture: x06_ ized: false host.ip: 100.76	:01:36.388 INF0 [obl 82] [LMB] 8233 [ scratch/oblm/request 94370235346a5977 hos 64 host.name: fagbu- .140.18 host.mac: 02 501.2.e17uek.x86_64	n-sweep- (self-tuning)'] o.f.o -logs/oblm-sweep-serv; t.containerized: fals: mum-638 host.os.versi 1:00:17:00:ab:8c host host.os.platform: ol	<pre>.s.lms.cache.AbstractTimerG ices.06DX02_LM8_2021-04-29. e host.ip: 100.76.140.18 ion: 7.8 host.os.family: .hostname: fsgbu-mum-638 host.os.version: 7.8</pre>



# 2.6 Troubleshooting Logs Kafka issues

# 2.6.1 Setting up kafka

Download kafka from <u>https://www.apache.org/dyn/closer.cgi?path=/kafka/2.7.0/kafka\_2.12-2.7.0.tgz</u> Download Zookeeper from <u>https://www.apache.org/dyn/closer.lua/zookeeper/zookeeper-3.6.2-bin.tar.gz</u> <u>3.6.2/apache-zookeeper-3.6.2-bin.tar.gz</u> Now first we need to start zookeeper and then kafka. please flow steps mentioned here https://kafka.apache.org/quickstart

# 2.6.2 Check if kafka is running

Run cmd \$ netstat -tlnp | grep :9092 (9092 is default port of kafka)

## Possible issue while starting kafka

- Kafka is not starting may be because zookeeper is not yet started run cmd \$ netstat -tlnp | grep :2181 (2181 is default port of zookeeper) if any services is not running on this port means zookeeper is down
- Check if any permission issue is there for kafka log folder.

## Create console producer and consumer for troubleshooting

here is a use full reference for that <u>http://cloudurable.com/blog/kafka-tutorial-kafka-from-</u> <u>command-line/index.html</u>

# 2.6.3 Some references that can be useful

https://docs.cloudera.com/documentation/kafka/latest/topics/kafka\_faq.html



# 2.7 Troubleshooting Environmental Issues

This section contains the following subsections:

- 2.7.1 Possible issues while deploying services
- 2.7.2 Possible issues in login and screen launch

# 2.7.1 Possible issues while deploying services

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

## 2.7.1.1 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.

## 2.7.1.2 Other possible issues

The other possible issue while deploying services could be multiple version 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-5.3.0.war."

# 2.7.2 Possible issues in login and screen launch

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

# 2.7.2.1 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, oblmcomponent-server etc are also deployed along with the app-shell.

For example, <u>http://whf00bjp.in.oracle.com:7403/app-shell/index.jsp</u> will load the login page of the application.



#### Figure 21: Login Page



# 2.7.2.2 Unable to login after launching the application

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

#### Figure 22: Services

PLATO-API-GATEWAY	n/a (1) (1)	UP (1) - whf00bjo.in.oracle.com:plato-api-gateway:7007
PLATO-BATCH-SERVER	n/a (1) (1)	UP (1) - whf00bjo.in.oracle.com:plato-batch-server:7013
PLATO-DISCOVERY-SERVICE	n/a (1) (1)	UP (1) - whf00bjo.in.oracle.com:plato-discovery-service:7003
PLATO-O	n/a (1) (1)	UP (1) - whf00bjo
PLATO-ORCH-SERVICE	n/a (1) (1)	UP (1) - whf00bjo.in.oracle.com:plato-orch-service:7017
PLATO-UI-CONFIG-SERVICES	n/a (1) (1)	UP (1) - whf00bjo.in.oracle.com:plato-ui-config-services:7009
SMS-CORE-SERVICES	n/a (1) (1)	UP (1) - whf00bjo.in.oracle.com:sms-core-services:7011

# 2.7.2.3 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.

# 2.7.2.4 Teller menus are not displayed after logging in

After you log in, if the teller 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.

# 2.7.2.5 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.



# 3 Health Checks

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

#### Figure 23: Health Checks

Instances currently registered with Eureka			
Application	AMIs	Availability Zones	Status
CMC-ACCOUNT-SERVICES	<b>n/a</b> (1)	(1)	UP (1) - whf00bjo.in.oracle.com:cmc-account-services:7103
CMC-BASE-SERVICES	n/a (1)	(1)	UP (1) - whf00bjo.in.oracle.com:cmc-base-services:7103
CMC-BRANCH-SERVICES	n/a (1)	(1)	UP (1) - whf00bjo.in.oracle.com:cmc-branch-services:7103
CMC-CURRENCY-SERVICES	n/a (1)	(1)	UP (1) - whf00bjo.in.oracle.com:cmc-currency-services:7103
CMC-CUSTOMER-SERVICES	<b>n/a</b> (1)	(1)	UP (1) - whf00bjo.in.oracle.com:cmc-customer-services:7103
CMC-EXTERNAL-CHART-ACCOUNT-SERVICES	n/a (1)	(1)	UP (1) - whf00bjo.in.oracle.com:cmc-external-chart-account-services:7103
CMC-EXTERNAL-SYSTEM-SERVICES	n/a (1)	(1)	UP (1) - whf00bjo.in.oracle.com:cmc-external-system-services:7103
CMC-EXTERNAL-VIRTUAL-ACCOUNT-SERVICES	n/a (1)	(1)	UP (1) - whf00bjo.in.oracle.com:cmc-external-virtual-account-services:7103
CMC-OBRH-SERVICES	<b>n/a</b> (1)	(1)	UP (1) - whf00bjo.in.oracle.com:cmc-obrh-services:7103
CMC-REPORT-SERVICES	n/a (1)	(1)	UP (1) - whf00bjo.in.oracle.com:cmc-report-services:7103
CMC-SETTLEMENTS-SERVICES	n/a (1)	(1)	UP (1) - whf00bjo.in.oracle.com:cmc-settlements-services:7103
CMC-TXN-CODE-SERVICES	n/a (1)	(1)	UP (1) - whf00bjo.in.oracle.com:cmc-txn-code-services:7103
OBLM-BATCH-SERVICES	<b>n/a</b> (1)	(1)	UP (1) - whf00bjp.in.oracle.com:oblm-batch-services:7303
OBLM-CASH-CONCENTRATION-SERVICES	<b>n/a</b> (1)	(1)	UP (1) - whf00bjp.in.oracle.com:oblm-cash-concentration-services:7311
OBLM-DASHBOARD-SERVICES	n/a (1)	(1)	UP (1) - whf00bjp.in.oracle.com:oblm-dashboard-services:7211
OBLM-ICL-SERVICES	<b>n/a</b> (1)	(1)	UP (1) - whf00bjp.in.oracle.com:oblm-icl-services:7144
OBLM-INTEGRATION-SERVICES	<b>n/a</b> (1)	(1)	UP (1) - whf00bjp.in.oracle.com:oblm-integration-services:7307
OBLM-MAINTENANCE-SERVICES	<b>n/a</b> (1)	(1)	UP (1) - whf00bjp.in.oracle.com:oblm-maintenance-services:7205
OBLM-POOL-SERVICES	<b>n/a</b> (1)	(1)	UP (1) - whf00bjp.in.oracle.com:oblm-pool-services:7209



# 3.1 Weblogic

# 3.1.1 Unable to login to weblogic console

Sometimes you are unable to login to weblogic console or console is down when trying to deploy or re-deploy services

This issue can be fixed by restarting weblogic domain from server. Perform the following steps:

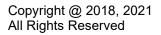
- To stop the weblogic server, which is already running, go to path "/Oracle\_Home/user\_projects/domains/bin" and execute **sh** file with "./" prefixing to it. For example, ./stopWebLogic.sh.
- 2. Once the server is stopped, try to start the server by executing below command, so that it can run in the background. For example, *./startWebLogic.sh &*.

This site can't be reached whf00peb refused to connect.	
Try: • Checking the connection • Checking the proxy and the firewall ERR_CONNECTION_REFUSED	
Reload	Details

#### Figure 24: Error Message

# 3.1.2 Unable to stop a service

If you are not able to stop a service, which is already running, try to bring down the managed server and remove the war file.





## 3.1.3 GC Overhead limit exceeded/OutOfMemoryException error

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.

- Heap Dump
- Configuration of environment

For 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 25: Domain Structure

Chan	ge Center							
View changes and restarts								
chang	guration editing is enabled. Future ges will automatically be activated as y y, add or delete items in this domain.	ou						
Doma	ain Structure							
	ng_release omain Partitions							
₿-En	vironment							
1 1	Servers Clusters							
	Coherence Clusters							
	Resource Groups Resource Group Templates							
1 1	Machines							
	Virtual Hosts Virtual Targets							
	Work Managers							
	Concurrent Templates	-						

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

#### Figure 26: Managed Servers

ceedings for	10110														
Configura	tion f	rotocols	Logging	Debug	Monitoring	Control	Deployments	Services	Security	Notes					
General	Cluster	Service	es Keysto	res SS	L Federation	n Services	Deployment	Migration	Tuning	Overload	Concurrency	Health Monitoring	Server Start	Web Services	Coherence
Save															



 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 27: Memory Update

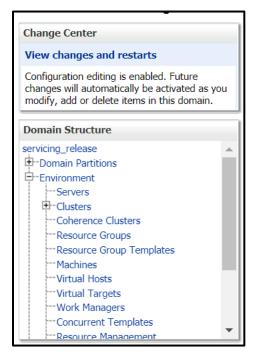
Argumonto	 	 	 	
Arguments: -Xmx2048m				
			//	ç

# 3.1.4 Managed server is failed or not reachable

If the managed server is in failed or not reachable state, perform the following steps to restart the managed server:

1. Go to Servers, select Control tab, and then select the managed server.

Figure 28: Domain Structure





#### 2. Click Shutdown.

Figure 29: Control Tab

Change Center	🏠 Home Log Out Preferences 📐	Record Help	Q		
View changes and restarts	Home >Summary of Servers				
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Summary of Servers Configuration Control				
Domain Structure oblm2  Domain Partitions  Frownonnent	wide administration port.	the servers in this WebLogic Serv	er domain. Control operations on Mar	naged Servers require starting the $\mathbb{N}$	lode Manager. Starting Ma
	Customize this table	- 5.4.4)			
Resource Group Templates Machines	Start Resume Suspend v	Shutdown ~ Restart S SL			
	🗆 Server 🗞	When work completes	Machine	State	Status of Last Action
Concurrent Templates	AdminServer(admin)	Torce shadowithow		RUNNING	None
1 Presource Management	managed_server1		Machine_1	RUNNING	None
How do I	managed_server2		Machine_1	RUNNING	None
<ul> <li>Start and stop servers</li> </ul>	managed_server3		Machine_1	RUNNING	None
<ul> <li>Start Managed Servers from the Administration Console</li> </ul>	managed_server4		Machine_1	RUNNING	None
Restart SSL	managed_server5		Machine_1	RUNNING	None
Start Managed Servers in Admin mode	managed_server6		Machine_1	RUNNING	None
Start Managed Servers in a cluster	Start Resume Suspend ~	Shutdown ~ Restart SSL			

3. After you bring down the server, click **Start** to restart the server.

## 3.1.5 weblogic.application.ModuleException error

If there is an error like "weblogic.application.ModuleException: Context path '/oblmmaintanence-services' is already in use by the module", make sure that the re-deploying service is removed properly. If the issue persists, try to restart the managed server.



# 3.2 Application Services

Catalog of services required for Oracle Banking Liquidity Management to run

#### **Table 2: Application Services**

Group	Service List	Usage
OBLM	oblm-batch-services	Used for running batch jobs
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 structures
OBLM	oblm-structure-services	Used for account structures
OBLM	oblm-sweep-services	Used for sweep executions
OBLM	oblm-component-server	OBLM UI
OBLM	obic-bod-batch-services	Used for Interest and Charges
OBLM	obic-charge-calc-services	Used for Interest and Charges
OBLM	obic-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
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
PLATO	plato-batch-server	Required for PLATO framework
PLATO	plato-orch-service	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-report-service	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-base-services	Common Core Services
CMC	cmc-branch-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-	VAM services
	services	
CMC	cmc-component-server-5.8.0.war	CMC UI
CMC	app-shell-5.8.0.war	UI



# 3.3 Database

# 3.3.1 Configure Data Sources in WebLogic

To add the Data Sources, follow the below steps:

1. Go to Services, select Data Sources option.

#### Figure 30: Data Sources

Change Center
View changes and restarts
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.
Domain Structure
Deployments
Messaging     Data Sources
Persistent Stores Foreign JNDI Providers
Work Contexts XML Registries XML Entity Caches
jCOM
File T3

2. Click on **New** button and add the data source providing the required details.

#### Figure 31: Summary of JDBC Data Sources

mmary of JDBC Data Source	s		
onfiguration Monitoring			
A JDBC data source is an objec	t bound to the JNDI t	tree that provides database connectivity	through a pool of JDBC connections. Applications can look up a data source on the JNDI tree and then borrow a database
This page summarizes the JDB	C data source objects	that have been created in this domain.	
Customize this table			
Data Sources (Filtered - Mor	o Columne Exict)		
	e columns Existy		
New - Delete			
Generic Data Source	Туре	JNDI Name	Targets
GridLink Data Source	Generic	idbc/ICL	managed server1, managed server2, managed server3, managed server4, managed server5, managed server6
Multi Data Source	Generic	idbc/LMB	managed server1, managed server2, managed server3, managed server4, managed server5
Proxy Data Source	Generic	jdbc/LMC	managed_server1, managed_server2, managed_server3, managed_server4, managed_server5
UCP Data Source	Generic	idbc/LMD	managed_server1, managed_server2, managed_server3, managed_server4, managed_server3 managed_server1, managed_server2, managed_server3, managed_server4, managed_server5
	Generic	idbc/LMR	managed_server1, managed_server2, managed_server3, managed_server4, managed_server5 managed_server1, managed_server2, managed_server3, managed_server4, managed_server5, managed_server6
	Generic	idbc/LMX	managed_server1, managed_server2, managed_server3, managed_server4, managed_server3, managed_server3
0			
	Generic	jdbc/LRT	managed_server1, managed_server2, managed_server3, managed_server4, managed_server5
PLATO	Generic	jdbc/PLATO	managed_server1, managed_server2, managed_server3, managed_server4, managed_server5, managed_server6
PLATOBATCH	Generic	jdbc/PLATOBATCH	managed_server1, managed_server2, managed_server3, managed_server4, managed_server5, managed_server6
	Generic	1dbc/PLATO UI CONFIG	managed_server1, managed_server2, managed_server3, managed_server4, managed_server5, managed_server6
PLATO_UI_CONFIG	Generic		



Back       Next       Finish       Cancel         JDBC Data Source Properties         The following properties will be used to identify your new JDBC data source         * Indicates required fields         What would you like to name your new JDBC data source?         Image: * Name:       PLATO         What scope do you want to create your data source in ?	irce.
JDBC Data Source Properties         The following properties will be used to identify your new JDBC data sour         * Indicates required fields         What would you like to name your new JDBC data source?	ırce.
The following properties will be used to identify your new JDBC data sour * Indicates required fields What would you like to name your new JDBC data source? # Name: PLATO	irce.
*Name: PLATO	
What scope do you want to grante your data source in 2	
what scope up you want to create your data source in ?	
Scope: Global V	
What database type would you like to select? Database Type: Oracle	
Database Type: Oracle	
Database Type: Oracle	
Database Type: Oracle	
Database Type:     Oracle       eate a New JDBC Data Source       Back     Next       Finish     Cancel       Connection Properties       Define Connection Properties.	
Database Type:     Oracle       eate a New JDBC Data Source       Back     Next       Finish     Cancel       Connection Properties       Define Connection Properties.       What is the name of the database you would like to connect to?	
Database Type:     Oracle       eate a New JDBC Data Source       Back Next Finish Cancel       Connection Properties       Define Connection Properties.       What is the name of the database you would like to connect to?       Database Name:     OBLMDB	
Database Type:     Oracle       eate a New JDBC Data Source       Back     Next       Finish     Cancel       Connection Properties       Define Connector Properties.       What is the name of the database you would like to connect to?	le.com
Database Type:     Oracle       eate a New JDBC Data Source       Back     Next       Finish     Cancel       Connection Properties       Define Connection Properties.       What is the name of the database you would like to connect to?       Database Name:     OBLMDB       What is the name or IP address of the database server?	le.com

# 3.3.2 Day0 Scripts

Confirm Password:

Additional Connection Properties: oracle.jdbc.DRCPConnectionClass: Back Next Finish Cancel

Make sure that all the Day0 scripts available in the product package are run successfully.

.....



#### **Troubleshooting Application Workflows** 4

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

- 4.1 Micro Frontend Architecture
- 4.2 Payment Service Integration Troubleshooting

# 4.1 Micro Frontend Architecture

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

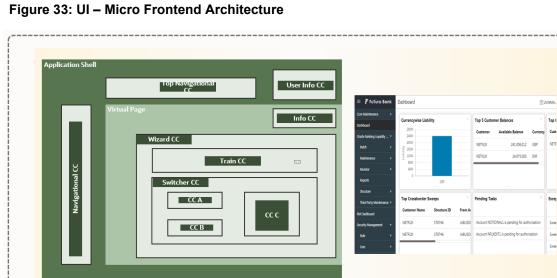
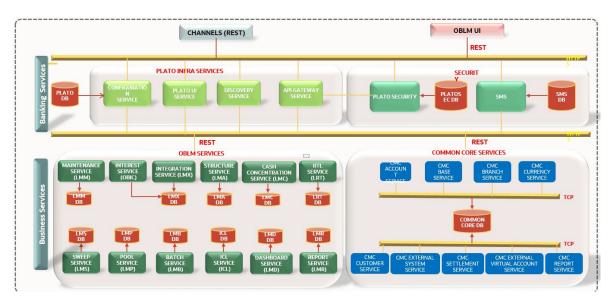


Figure 34: Services – Micro Frontend Architecture





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

Menu Item Search	Currency	wise Liability			Top 5 Custome	Balance		Top Customer Sweep Ve	olume ×
Core Maintenance	► 12M			_	Customer	Available Balance	Curre	Customer Name	Count
Dashboard	10M		-	-				UDEC Curtana	2942
Interest and Charges	M Stillio GM			_	SEPTCUST	12,310,000	USD	HDFC Customer	2942
Islamic Profit	Aillideil 4M				HDFC	993,400	GBP	SEPTCUST Customer	184
Oracle Banking Liquidity	2М			_	RETROCUST	46,000	GBP	RETROCUST	38
Management System	0	GBP	USD		RETROCUST	26,500	USD	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	2
RM Dashboard			USD						
Security Management	Top Cross	sborder Sweeps			Pending Tasks			Exceptions	
VAM Interest and Charges			itructure ID	Fron	2				
	No data to	display.						Balance for Account STRA	C1 not available for Structu
					Account ATACC4	~GBP is pending for author	risation	Balance for Account AUFU	AC32 not available for Stru
					Account ATACC4	~GBP is pending for author	risation	Balance for Accounts AUFU	JAC32~STRAC1 not availal
					Account ATACC3	~GBP is pending for author	risation	Sweep for Account-Pair AL	JFUAC32~STRAC1 is skipp
					Account 100000/	000000007 AUC is sendin	a far a		
	Alerts								
	1.11.11.1								
	Initializing.								

#### Figure 35: 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.

New       Copy       Utdock       Cope         Role Code *       Description *       Default role for initial login         ADMIN_ROLE       Default role for initial login         Role Activity       Functional Activity Code       Functional Activity Description         Image: Code Activity       Functional Activity Code       Functional Activity Description         Image: Code Activity       Functional Activity Code       Functional Activity Description         Image: Code Activity Code       Functional Activity Description       Branch EOD process         Image: Code Activity Code       Branch EOD process       Branch EOD process         Image: Code Activity Code       Branch EOD process       Branch EOD process         Image: Code Activity Code       Branch EOD process       Branch EOD process         Image: Code Activity Code       Branch EOD process       Branch EOD process         Image: Code Activity Code Activity Code Activity Code Activity English English English English Code Activity English English	2 <sup>16</sup> ×			nce	Role Maintenar
ADMIN_ROLE     Default role for initial login       Role Activity <ul> <li>Role Activity Code</li> <li>Ronctional Activity Code</li> <li>Ronctional Activity Code</li> <li>Ronctional Activity Description</li> <li>Ronctional Activity Description</li> <li>SMS_FA_USER_NEW</li> <li>SMS_FA_ROLE_AMEND</li> <li>SMS_FA_ROLE_CLOSE</li> <li>Role Close</li> <li>Role Close</li> </ul>				ay Unlock Oose	
Role Activity     Functional Activity Code     Functional Activity Description       Image: Constraint of Constra			Description *		Role Code *
Functional Activity Code     Functional Activity Description       CMC_FA_BRANCH_EOD_PROCESS     Branch EOD process       SMS_FA_USER_NEW     User Create       SMS_FA_ROLE_AMEND     Role Amend       SMS_FA_ROLE_CLOSE     Role Close		for initial login	Default role		ADMIN_ROLE
Functional Activity Code     Functional Activity Description       Image: CMC_FA_BRANCH_EOD_PROCESS     Branch EOD process       Image: CMC_FA_BRANCH_EOD_PROCESS     Branch EOD process       Image: CMC_FA_BRANCH_EOD_PROCESS     User Create       Image: CMC_FA_BRANCH_EOD_PROCESS     Branch EOD process					
Image: Constraint of the second se					Role Activity
Image: Constraint of the second of the se					
Image: SMS_FA_USER_NEW         User Create           Image: SMS_FA_ROLE_AMEND         Role Amend           Image: SMS_FA_ROLE_CLOSE         Role Close		Functional Activity Description		Functional Activity Code	
SMS_FA_ROLE_AMEND         Role Amend           SMS_FA_ROLE_CLOSE         Role Close		Branch EOD process		CMC_FA_BRANCH_EOD_PROCESS	<ul><li>✓</li></ul>
SMS_FA_ROLE_CLOSE Role Close		User Create		SMS_FA_USER_NEW	<b>v</b>
		Role Amend		SMS_FA_ROLE_AMEND	~
SMS FA ROLE REOPEN Role REOPEN		Role Close		SMS_FA_ROLE_CLOSE	
		Role ReOpen		SMS_FA_ROLE_REOPEN	~
Page 1 (1-5 of at least 35 items) K < 1 2 3 4 5 6 _ > >				5 of at least 35 items) K < 1 2 3 4 5 6 > >	Page 1 (1-

#### Figure 36: 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.

Go to: Security Management > User screen.

Here Melaterees		× ×
Users Maintenance		
New Copy Unlock Close		
UserDetails		
Usemame *	Legin ID *	Home Branch *
O6LM03	OBLINOS	LM8 9.
Status		
User Status * Enable v	Status Changed On Sep 10, 2020	Is Supervisor " Manager ID "
Start Date * Nov 30, 2016	End Date Sep 30, 2021	
Other Details		
Access to Pil	Staff Customer Restriction Required	Customer ID Email ID
		Q, c0im03@gmail.com
Telephone Number	Home Phone Number	Mable Number Pax
There "	Language Code *	
WHILE .	END V	
User Role Branches		
Branch Code	Role Code	Role Description
		Default role for initial login
	ADMIN, ROLE	Desar foe for most legin
Page 1 of 1 (1-2 of 2 items) K < 1 > 3	4	
safe i di l'entrenenti la citi a la		
User Applications		
		Select Al Applications
Application Name		Aepiration Description
OBLM Q		Oracle Banking Uquidity Management System
LMX Q		OBLM Integration
LMC Q		OBLM CashConcentration
OBIC Q		Drade Banking Interest and Onarges System
LIMP Q		OBLM Pool
Page 1 (1-5 of at least 14 items) K < 1 2 3 > H		
Audit		Form Cancel
View Role 🖉 View User 🖉 Users Maintenance 🦿		

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

#### 4.1.1 First level issues

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

#### 4.1.1.1 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 38: Error Message not shown



🕞 🛅 🛛 Elements Console Sources M	Network Application Performance Lighthouse Memory Security
🔵 🛇   🍸 🔍   🗹 Preserve log 🗌 Disable	e cache 🔋 No throttling 🔻 🗶 🛓
Filter Dide data URLs	🔊 XHR JS CSS Img Media Font Doc WS Manifest Other 🗌 Has blocked cookies 🗋 Blocked Requests
Use large request rows	Group by frame
Show overview	Capture screenshots
Name	× Headers Preview Response Initiator Timing
approve approve error.png	<pre>v () &gt; data: (links: []) v messages: (keyId: "d24a66cd-93c5-4394-bb2a-6465385adfdb", status: "FAILURE", codes: [,], requestId: null,) v codes: [,] v (codes: [,] v (code: [cc5_AUTH-03" code: [cc5_AUTH-03" desc: "Hakee cannot authorize" error: true information: false language: "ENG" overrideAuthLevelsReqd: null type: "E"</pre>

# 4.1.1.2 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 39: Setting Log file path

Quer	y Resi	ult ×			
8	60	SQL   All Rov	vs Fetched: 3 in 0.05 seco	nds	
	∲ ID	MODIFY_FIELD	PARAM_NAME	<pre>   PARAM_VAL </pre>	
1	1	N	LOG_PATH	/scratch/oblm/request-logs	
2	2	N	LOG_LEVEL	INFO	
3	3	N	LOG MSG WITH TIME	Y	

## 4.1.1.3 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 40: Dynamic log generation issues



	h Y		
ery Resu	_		
୍ର (ମୁ	🗙 SQL   All Rows Fet	ched: 12 in 0.059 seconds	[pmmm]
∲ ID	DEBUG_ENABL	LED I SERVICE_CODE	V ♦ USER_ID
1	91 <mark>Y</mark>	cmc-account-services	0BLM02
2	26 Y	oblm-batch-services	OBLM02
3	27 Y	oblm-cash-concentration-services	s OBLM02
4	28 Y	oblm-dashboard-services	0BLM02
5	29 Y	oblm-integration-services	0BLM02
6	30 Y	oblm-maintenance-services	0BLM02
7	31 Y	oblm-pool-services	0BLM02
8	32 Y	oblm-report-services	0BLM02
9	33 Y	oblm-rtl-services	0BLM02
10	34 Y	oblm-structure-services	0BLM02
11	35 Y	oblm-sweep-services	0BLM02
12	36 Y	oblm-icl-services	OBLM02

**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 41: Server logs

/scratch/oblm/request-logs/			
Name	Size	Changed	Rights
oblm-dashboard-services_OBLM02_LMB_2021-05-05.log	7,341 KB	5/5/2021 6:55:20 PM	rw-r
oblm-maintenance-services_OBLM02_LMB_2021-05-05.log	5,551 KB	5/5/2021 6:54:01 PM	rw-r
oblm-batch-services_OBLM02_LMB_2021-05-05.log	103 KB	5/5/2021 6:53:43 PM	rw-r
oblm-integration-services_OBLM02_LMB_2021-05-05.log	732 KB	5/5/2021 6:52:31 PM	rw-r
oblm-structure-services_OBLM02_LMB_2021-05-05.log	1,443 KB	5/5/2021 5:25:00 PM	rw-r
oblm-structure-services_OBLM04_LMB_2021-05-05.log	1,225 KB	5/5/2021 5:00:00 PM	rw-r
oblm-integration-services_OBLM04_LMB_2021-05-05.log	323 KB	5/5/2021 5:00:00 PM	rw-r

# 4.1.1.4 Call is failing in Gateway

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

#### Figure 42: Call is failing in Gateway



GET • http://whf00bjp.in.ora	cle.com:7205/oblm-maintenance-serv	ices/account?customerId=HDf	FC	Send -
Params • Authorization Headers	(11) Body Pre-request Scrip	t Tests Settings		
leaders 💿 7 hidden				
KEY	VALUE		DESCRIPTION	••• Bulk Edit
✓ appld	LMM			
✓ branchCode	LMB			
vdy Cookies Headers (7) Test Resul		) Statu	ıs: 200 OK Time: 881 m	s Size: 16.88 KB
1 (				
2 "data": [				
	-343e-4b19-8bf5-197a5fd91d5f",			
5 "makerId": "KANNAN	11",			
	"2018-11-30T04:29:29.000+00:00",	,		
7 "checkerId": "KANI	-			
8 "checkerDateStamp"	: "2018-11-30T04:30:25.000+00:00	- 11		

**NOTE:** Restart the specific services if required.

### 4.1.1.5 Code error in GCS side

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

### 4.1.1.6 404 error

The possible causes for 404 error are as follows:

- Check service is not running on Eureka
- Check if service is deployed in Weblogic



### 4.1.1.7 500 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.

### 4.1.2 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 43: Account Number

Account Number									×
Account Number		Account Description		Branch Code					
RETROACC2									
Currency Code		IBAN							
Fetch									
Account Number	Account Description	Branch Code	Currency Code	Virtual Account	Account Type	IBAN	No Credit	No Debit	Blocked
RETROACC2	RETROACC2	RET	USD	Ν	Internal		Ν	Ν	Ν
Page 1 of1 (1-	1 of 1 items ) K <	K < []							



### 4.2 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:

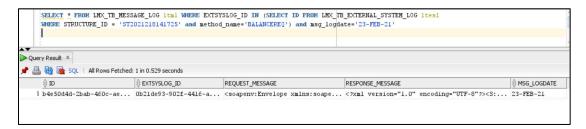
- 4.2.1 Balance Fetch (FCUBS) is failing
- 4.2.2 Accounting call (FCUBS) is failing
- 4.2.3 OBPM call is failing

#### 4.2.1 Balance Fetch (FCUBS) is failing

If Balance Fetch call (FCUBS) is failing, check the LMX\_TB\_MESSAGE\_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 44: Balance Fetch (FCUBS) is failing





### 4.2.2 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 45: Account calling (FCUBS) is failing

	SELECT * FROM LMX_TB_MESSAGE_LOG 1tml	WHERE EXTSYSLOG_ID IN (SI	ELECT ID FROM LMX_TB	EXTERNAL_SYSTEM_LOG ltes1	
	WHERE STRUCTURE_ID = 'ST2021218141725	' and method_name='FCUBSI	FSERVICEFSFS') and ma	sg_logdate='14-AUG-20'	
	Period X				
Que	ry Result ×				
Que		ds			
Que	ry Result 🗴	ds	1	1	
Que		ds	REQUEST_MESSAGE	RESPONSE_MESSAGE	🚯 MSG_LOGDAT
	🖓 🍺 SQL   All Rows Fetched: 9 in 0.515 secon	EXTSYSLOG_ID		RESPONSE_MESSAGE xml version="1.0" enc</td <td>v -</td>	v -
1	Image: Second	<pre>   EXTSYSLOG_ID   d20ffdfl-e567-41d0-82e</pre>	<soapenv:envelop< td=""><td><?xml version="1.0" enc</td><td>14-AUG-20</td></td></soapenv:envelop<>	xml version="1.0" enc</td <td>14-AUG-20</td>	14-AUG-20

## 4.2.3 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 Business Error Codes

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

#### **Table 3: 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	Ι
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	1



GCS-DEL-002	Record(s) deleted successfully	I
	Modifications didnt match valid unauthorized	
GCS-DEL-003	modifications that can be deleted for this record	E
GCS-DEL-004	Send all unauthorized modifications to be deleted	E
	for record that is not authorized even once.	L
GCS-DEL-005	Only Maker of first version of record can delete	
	modifications of record that is not once	E
	authorized.	
GCS-DEL-006	No valid unauthorized modifications found for	E
	deleting	
GCS-DEL-007	Failed to delete. Only maker of the modification(s)	Е
	can delete.	
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	E
000-000	auth	L
GCS-MOD-005	Not amendable field, cannot modify	E
GCS-MOD-006	Natural Key cannot be modified	E
GCS-MOD-007	Psssttt, only the maker can modify the pending	E
000-007	records.	L
GCS-OPEN-01	Teller Batch Record Already Opened	E
GCS-OPEN-01	Record Already Opened	E
GCS-REOP-003	Successfully Reopened	1
GCS-REOP-004	Unauthorized record cannot be reopened, record	E
GCS-REOF-004	should be closed and authorized	C
GCS-REOP-01	Unauthorized Record cannot be Reopened	E
GCS-REOP-02	Failed to Reopen the Record, cannot reopen	E
	Open records	
GCS-REOP-03	Successfully Reopened	I
GCS-SAV-001	Record already exists	E
GCS-SAV-002	Record Saved Successfully.	1



		1
GCS-SAV-003	Congratulations!! The record is saved and validated successfully.	I
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	1
CMC-BRN-101	Branch doesnot exist	E
CMC-BRN-CD01	Date changed successfully	1
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
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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 intiated	1
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	E
00-003-107	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	E
	perform create or modify operations	L
CMC-FORC-001	Request is null, not valid.	E
CMC-FORC-002	Forget customers request created successfully.	1
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	1
	Invalid Customer \$1 added, customer should be	
CMC-FORC-010	valid and in closed and authorized state without	E
	pending maintenance	
CMC-FORC-011	Invalid request. Duplicate requests for customer	E
	number \$1	
ST-CUS-167	Record already exist for customer no and	E
	source_system_cust_no combination	



<b></b>	- 1	
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 fx 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 maintaned 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
	1	1



CMC-CCY-074	Error in getting Rate	E
CMC-CCY-075	Rate History is not handled for currency1 and	E
	currency2	
CMC-CCY-076	Rate History is not handled for currency2 and	E
	currency1	
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	E
	maintained	-
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.	E
	Close not allowed.	
CC-BIC02	The BIC code does not conform to SWIFT	E
	standards	
CC-BIC05	Record already maintained for the customer no	E
CC-C00100	Relationship cannot be No for a Customer Linked	E
-	BIC Code	
SW-ERR-001	Sweep not allowed at System level	1
SW-ERR-002	Structure is not active or paused	I
SW-ERR-003	Header account is not active	1
SW-ERR-004	Sweep already pending for structure	I



SMS-LOV-001	Invalid Home Branch	E
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	E
	percentage maintained	
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-24Failed while Processing ChargeEIC-CHGERR-25Failed while updating liqd datesEIC-CHGERR-28Could not get the book typeECS-PRD002Product code cannot be nullEMM-10051Product Code should be 4 charactersEBC-00234Product End Date cannot be less than todayEIC-PRD061Frequency is blank in product preferencesEIC-PRD054Value of Accrual Day should be less than or equal to 31EIC-PRD054To Period should be greater than From PeriodEIC-PRD0201Interest 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 requiredEIC-PRD062IC Branch Date not available for the current branchEIC-RL0069Ic Length of Rule Id should be equal to 4 charactersEIC-RL0070Rule Id Anaracters are not allowed in Rule IdEIC-RL008Blank characters are not allowed in Rule IdEIC-RL009Rule Id - First character should be an alphabet or underscoreEIC-RLM060Rounding Required should be checked when Book FLag is "Non-Booked" and periodicity is "Daily/Periodic"EIC-RL0063Required atleast one booked formula to save the ruleEIC-RL0064Required atleast one formula with a valid expression for a ruleEIC-RL0044Required atleast one formula with a valid expression for a ruleE			
IC-CHGERR-28Could not get the book typeEIC-CHGERR-28Could not get the book typeECS-PRD002Product code cannot be nullEMM-10051Product Code should be 4 charactersEBC-00234Product End Date cannot be less than todayEIC-PRD061Frequency is blank in product preferencesEIC-PRD054Value of Accrual Day should be less than or equal to 31EIC-PRD054To Period should be greater than From PeriodEIC-PRD0201Interest 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 requiredEIC-PRD062IC Branch Date not available for the current branchEIC-RL0062IC Branch Date not available for the current branchEIC-RL0069Length of Rule Id should be equal to 4 charactersEIC-RL0009Rule Id has invalid charactersEIC-RL0009Rule Id - First character should be an alphabet or underscoreEIC-RLM061Book FLag is "Non-Booked" and periodicity is "Daily/Periodic"EIC-RL0056Required atleast one booked formula to save the ruleEIC-RL0056Requires atleast one formula with a valid expression for a ruleE	IC-CHGERR-24	Failed while Processing Charge	E
CS-PRD002Product code cannot be nullEMM-10051Product code should be 4 charactersEBC-00234Product End Date cannot be less than todayEIC-PRD061Frequency is blank in product preferencesEIC-PRD054Value of Accrual Day should be less than or equal to 31EIC-PRCBT002To Period should be greater than From PeriodEIC-PRD054Interest 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 requiredEIC-PRD062IC Branch Date not available for the current branchEIC-RL0069Length of Rule Id should be equal to 4 charactersEIC-RL009Rule Id - First character should be an alphabet or underscoreEIC-RL009Rule Id - First character should be an alphabet or underscoreEIC-RL0060Book FLag is "Non-Booked" and periodicity is "Daily/Periodic"EIC-RL0066Required should be checked when Book FLag is "Booked" and periodicity is "Daily/Periodic"EIC-RL0056Required atleast one booked formula to save the ruleEIC-RL0048Requires atleast one formula with a valid expression for a ruleE	IC-CHGERR-25	Failed while updating liqd dates	E
MM-10051Product Code should be 4 charactersEBC-00234Product End Date cannot be less than todayEBC-00234Product End Date cannot be less than todayEIC-PRD061Frequency is blank in product preferencesEIC-PRD054Value of Accrual Day should be less than or equal to 31EIC-PRCBT002To Period should be greater than From PeriodEIC-PRD054Interest 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 requiredEIC-PRD062IC Branch Date not available for the current branchEIC-BRNC-01Invalid Branch ParameterEIC-RL0069Length of Rule Id should be equal to 4 charactersEIC-RL0008Blank characters are not allowed in Rule IdEIC-RL009Rule Id - First character should be an alphabet or underscoreEIC-RL0061Book FLag is "Non-Booked" and periodicity is "Daily/Periodic"EIC-RL0060Required should be checked when Book FLag is "Booked" and periodicity is "Daily/Periodic"EIC-RL0056Required atleast one booked formula to save the ruleEIC-RL0048Requires atleast one formula with a valid expression for a ruleE	IC-CHGERR-28	Could not get the book type	E
BC-00234Product End Date cannot be less than todayEBC-00234Product End Date cannot be less than todayEIC-PRD061Frequency is blank in product preferencesEIC-PRD054Value of Accrual Day should be less than or equal to 31EIC-PRCBT002To Period should be greater than From PeriodEIC-PRD201Interest 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 requiredEIC-PRD062IC Branch Date not available for the current branchEIC-BRNC-01Invalid Branch ParameterEIC-RL0069Length of Rule Id should be equal to 4 charactersEIC-RL0007Rule Id has invalid charactersEIC-RL0008Blank characters are not allowed in Rule IdEIC-RL009Rule Id - First character should be an alphabet or underscoreEIC-RL0061Book FLag is "Non-Booked" and periodicity is "Daily/Periodic"EIC-RL0060Book FLag is "Non-Booked" and periodicity is "Daily/Periodic"EIC-RL0056Required atleast one booked formula to save the ruleEIC-RL0048Requires atleast one formula with a valid expression for a ruleE	CS-PRD002	Product code cannot be null	E
IC-PRD061Frequency is blank in product preferencesEIC-PRD054Value of Accrual Day should be less than or equal to 31EIC-PRCBT002To Period should be greater than From PeriodEIC-PRCBT002To Period should be greater than From PeriodEIC-PRD201Interest 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 requiredEIC-PRD062IC Branch Date not available for the current branchEIC-RLM069Length of Rule Id should be equal to 4 charactersEIC-RL0007Rule Id has invalid charactersEIC-RL0008Blank characters are not allowed in Rule IdEIC-RL009Rule Id - First character should be an alphabet or underscoreEIC-RLM061Book FLag is "Non-Booked" and periodicity is "Daily/Periodic"EIC-RLM060Required should be checked when Book FLag is "Booked" and periodicity is "Daily/Periodic"EIC-RL0056Required atleast one booked formula to save the ruleEIC-RL0048Requires atleast one formula with a valid expression for a ruleE	MM-10051	Product Code should be 4 characters	E
IC-PRD054Value of Accrual Day should be less than or equal to 31EIC-PRCBT002To Period should be greater than From PeriodEIC-PRD054Interest 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 requiredEIC-PRD062IC Branch Date not available for the current branchEIC-BRNC-01Invalid Branch ParameterEIC-RLM069Length of Rule Id should be equal to 4 charactersEIC-RL0007Rule Id has invalid charactersEIC-RL0008Blank characters are not allowed in Rule IdEIC-RL0009Rule Id - First character should be an alphabet or underscoreEIC-RLM061Book FLag is "Non-Booked" and periodicity is "Daily/Periodic"EIC-RL0056Required should be checked when Book FLag is "Booked" and periodicity is "Daily/Periodic"EIC-RL0048Requires atleast one booked formula to save the ruleE	BC-00234	Product End Date cannot be less than today	E
IC-PRD054to 31EIC-PRCBT002To Period should be greater than From PeriodEIC-PRCD102Interest 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 requiredEIC-PRD062IC Branch Date not available for the current branchEIC-BRNC-01Invalid Branch ParameterEIC-RL0069Length of Rule Id should be equal to 4 charactersEIC-RL0007Rule Id has invalid charactersEIC-RL0008Blank characters are not allowed in Rule IdEIC-RL0009Rule Id - First character should be an alphabet or underscoreEIC-RLM061Book FLag is "Non-Booked" and periodicity is "Daily/Periodic"EIC-RLM060Required should be checked when Book FLag is "Booked" and periodicity is "Daily/Periodic"EIC-RL0056Required atleast one booked formula to save the ruleEIC-RL0048Requires atleast one formula with a valid expression for a ruleE	IC-PRD061	Frequency is blank in product preferences	E
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 requiredEIC-PRD062IC Branch Date not available for the current branchEIC-BRNC-01Invalid Branch ParameterEIC-RL0069Length of Rule Id should be equal to 4 charactersEIC-RL0007Rule Id has invalid charactersEIC-RL0008Blank characters are not allowed in Rule IdEIC-RL0009Rule Id - First character should be an alphabet or underscoreEIC-RL001Book FLag is "Non-Booked" and periodicity is "Daily/Periodic"EIC-RL0061Book FLag is "Booked" and periodicity is "Daily/Periodic"EIC-RL0056Required atleast one booked formula to save the ruleEIC-RL0048Requires atleast one formula with a valid expression for a ruleE	IC-PRD054		E
IC-PRD201and Liquidation at Month End flag has to be checked if the Split Interest Adj for Prev Year is requiredEIC-PRD062IC Branch Date not available for the current branchEIC-BRNC-01Invalid Branch ParameterEIC-RL0069Length of Rule Id should be equal to 4 charactersEIC-RL0007Rule Id has invalid charactersEIC-RL0008Blank characters are not allowed in Rule IdEIC-RL009Rule Id - First character should be an alphabet or underscoreEIC-RL009Rounding Required should be Unchecked when Book FLag is "Non-Booked" and periodicity is "Daily/Periodic"EIC-RL0061Required atleast one booked formula to save the ruleEIC-RL0056Requires atleast one formula with a valid expression for a ruleE	IC-PRCBT002	To Period should be greater than From Period	E
IC-PRD062branchEIC-BRNC-01Invalid Branch ParameterEIC-RLM069Length of Rule Id should be equal to 4 charactersEIC-RL0007Rule Id has invalid charactersEIC-RL0008Blank characters are not allowed in Rule IdEIC-RL0009Rule Id - First character should be an alphabet or underscoreEIC-RLM061Rourals Required should be Unchecked when Book FLag is "Non-Booked" and periodicity is "Daily/Periodic"EIC-RLM060Rounding Required should be checked when Book FLag is "Booked" and periodicity is "Daily/Periodic"EIC-RL0056Required atleast one booked formula to save the ruleEIC-RL0048Requires atleast one formula with a valid expression for a ruleE	IC-PRD201	and Liquidation at Month End flag has to be checked if the Split Interest Adj for Prev Year is	E
IC-RLM069Length of Rule Id should be equal to 4 charactersEIC-RL0007Rule Id has invalid charactersEIC-RL0008Blank characters are not allowed in Rule IdEIC-RL0009Rule Id - First character should be an alphabet or underscoreEIC-RLM061Accruals Required should be Unchecked when Book FLag is "Non-Booked" and periodicity is "Daily/Periodic"EIC-RLM060Rounding Required should be checked when 	IC-PRD062		E
IC-RL0007Rule Id has invalid charactersEIC-RL0008Blank characters are not allowed in Rule IdEIC-RL0009Rule Id - First character should be an alphabet or underscoreEIC-RLM061Accruals Required should be Unchecked when Book FLag is "Non-Booked" and periodicity is "Daily/Periodic"EIC-RLM061Rounding Required should be checked when Book FLag is "Booked" and periodicity is "Daily/Periodic"EIC-RLM060Required atleast one booked formula to save the ruleEIC-RL0056Required atleast one formula with a valid expression for a ruleE	IC-BRNC-01	Invalid Branch Parameter	E
IC-RL0008Blank characters are not allowed in Rule IdEIC-RL0009Rule Id - First character should be an alphabet or underscoreEIC-RL0061Accruals Required should be Unchecked when Book FLag is "Non-Booked" and periodicity is "Daily/Periodic"EIC-RLM061Rounding Required should be checked when Book FLag is "Booked" and periodicity is "Daily/Periodic"EIC-RLM060Required should be checked when Book FLag is "Booked" and periodicity is "Daily/Periodic"EIC-RL0056Required atleast one booked formula to save the ruleEIC-RL0048Requires atleast one formula with a valid expression for a ruleE	IC-RLM069	Length of Rule Id should be equal to 4 characters	E
IC-RL0009Rule Id - First character should be an alphabet or underscoreEIC-RLM061Accruals Required should be Unchecked when Book FLag is "Non-Booked" and periodicity is "Daily/Periodic"EIC-RLM060Rounding Required should be checked when Book FLag is "Booked" and periodicity is "Daily/Periodic"EIC-RLM060Required should be checked when IDaily/Periodic"EIC-RL0056Required atleast one booked formula to save the ruleEIC-RL0048Requires atleast one formula with a valid expression for a ruleE	IC-RL0007	Rule Id has invalid characters	E
IC-RL0009underscoreEIC-RLM061Accruals Required should be Unchecked when Book FLag is "Non-Booked" and periodicity is "Daily/Periodic"EIC-RLM060Rounding Required should be checked when Book FLag is "Booked" and periodicity is "Daily/Periodic"EIC-RLM060Required atleast one booked formula to save the ruleEIC-RL0056Requires atleast one formula with a valid expression for a ruleE	IC-RL0008	Blank characters are not allowed in Rule Id	E
IC-RLM061Book FLag is "Non-Booked" and periodicity is "Daily/Periodic"EIC-RLM060Rounding Required should be checked when Book FLag is "Booked" and periodicity is "Daily/Periodic"EIC-RL0056Required atleast one booked formula to save the ruleEIC-RL0048Requires atleast one formula with a valid expression for a ruleE	IC-RL0009		E
IC-RLM060Book FLag is "Booked" and periodicity is "Daily/Periodic"EIC-RL0056Required atleast one booked formula to save the ruleEIC-RL0048Requires atleast one formula with a valid expression for a ruleE	IC-RLM061	Book FLag is "Non-Booked" and periodicity is	E
IC-RL0056     E       rule     Requires atleast one formula with a valid expression for a rule     E	IC-RLM060	Book FLag is "Booked" and periodicity is	E
IC-RL0048 E expression for a rule	IC-RL0056		E
IC-RLM044 Result cannot have logical operator E	IC-RL0048		E
	IC-RLM044	Result cannot have logical operator	E



CMC-ACC-SUBAC01No SubAccounts available for Multi-Currency AccountECMC-ACC-SUBAC02Exactly one account should be primary accountECMC-ACC-SUBAC03Sub Accounts should have unique currency codeEACC_PRD-01Unhandled Exception occurredEACC_PRD-02Invalid Product Accounting entry setupEACC_PRD-03Product code cannot be nullEACC_PRD-04IC Branch Date not available for the current branchEGC-CLS-02Record Successfully ClosedIGC-REOP-03Successfully ReopenedIIC-ACC-01Branch Dates could not be resolvedEIC-ACC-02Failed while fetching user globalsEIC-ACC-03Could not get accountEIC-ACC-04Failed during LookupEIC-ACC-05Unhandled Exception occurred during LookupEIC-ACC-07Unhandled Exception occurredEIC-ACC-08Bombed while converting the amountEIC-CHGERR01Failed while fetching user globalsEIC-CHGERR02Branch Dates could not be resolvedEIC-CHGERR04Could not get accountEIC-CHGERR05Error Occurred during InitializationEIC-CHGERR06Bombed while converting the amountEIC-CHGERR06Bombed while converting the amountEIC-CHGERR06Bombed while converting the amountEIC-CHGERR06Failed while deriving nh/max amountEIC-CHGERR07Failed while deriving charge amountE </th <th>IC-RLM016</th> <th>SDE Id and UDE Id should be different</th> <th>E</th>	IC-RLM016	SDE Id and UDE Id should be different	E
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IC-CHGERR09 Failed during LCY Conversion E	IC-CHGERR07	Failed while deriving charge amount	E
	IC-CHGERR08	Failed while deriving min/max amount	E
IC-CHGERR10 Failed While Caching Details for Charge Slab E	IC-CHGERR09	Failed during LCY Conversion	E
	IC-CHGERR10	Failed While Caching Details for Charge Slab	E



	Problem as both discount amt and discount	
IC-CHGERR11	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.	1
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.	1
LMB-BAT-011	File Uploaded successfully.	1
LMB-BAT-012	Batch Data Next Run date updated.	1
	Bank Record Authorized successfully in Core	
LMB-BIC-001	bank and Oracle Banking Liquidity Management	1
	for \$1.	
LMB-BIC-002	Error in Bank record saving.	E
LMB-BIC-003	Bic Code \$1 uploaded successfully	Ι
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 inititiated for branch:- \$1	I
	Failed to initiated BOD - BOD for branch is	
LMB-BOD-002	already in progress.	E
	Failed to initiated BOD - BOD for branch is	
LMB-BOD-003	already executed for day.	1
	Failed to initiated BOD - DATEFLIP for branch is	
LMB-BOD-004	not executed.	E
	Failed to initiated BOD - EOD for branch is in	
LMB-BOD-005	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.	Ι
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	1
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	E
	Maintenances for Authorization.	
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	E
	already completed.	-
LMB-EOD-004	Failed to initiated EOD - EOD for branch is	E
	already in progress.	



Failed to initiated EOD - Not a valid Branch.	E
User does not have necessary role.	E
Failed to initiated EOD.	E
EOD Post IC inititiated for branch:- \$1.	I
Failed to initiated EOD Post IC - EOD Post IC for	E
branch is already completed.	L
	E
	Е
branch is not completed.	
Failed to initiated EOD Post IC.	E
Date Flip for branch completed:- \$1	1
Failed to initiated Date Flip.	E
Failed to initiated Date Flip - EOD Post IC for	E
branch is not completed.	L
Failed to initiated Date Flip - Not a valid Branch.	E
Interface record Authorized Successfully for \$1.	I
Exteranl System Id not found for \$1	E
Error in Interface saving.	E
Sweep Instruction saved and uploaded	E
successfully.	E
Sweep Instruction Record authorized	E
successfully.	L
EOD inititiated for branch :- \$1.	1
Failed to initiated EOD - BOD for branch not	E
completed.	L
Account Pair Record Already Exists.	E
Message already procesed for external reference	
\$1.	E
Account Updated Successfully.	E
Account Status is Mandatory!!!	E
Account Category is Mandatory!!!	E
	User does not have necessary role.Failed to initiated EOD.EOD Post IC initiiated for branch:- \$1.Failed to initiated EOD Post IC - EOD Post IC for branch is already completed.Failed to initiated EOD Post IC - EOD Post IC for branch is already in progress.Failed to initiated EOD Post IC - EOD Pre IC for branch is not completed.Failed to initiated EOD Post IC - EOD Pre IC for branch is not completed.Failed to initiated EOD Post IC.Date Flip for branch completed:- \$1Failed to initiated Date Flip.Failed to initiated Date Flip - EOD Post IC for branch is not completed.Failed to initiated Date Flip - Not a valid Branch.Interface record Authorized Successfully for \$1.Exteranl System Id not found for \$1Error in Interface saving.Sweep Instruction saved and uploaded successfully.EOD initiated FOD - BOD for branch not completed.Failed to initiated EOD - BOD for branch not completed.Account Pair Record Already Exists.Message already procesed for external reference \$1.Account Status is Mandatory!!!



LMM-ACC-003	Account Record Created in IC and Authorized successfully	1
LMM-ACC-004	Account Record Authorized successfully but failed to create in IC	E
LMM-ACC-005	Account Record Authorized successfully	1
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	1
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	Ι
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-005Record Successfully SubmittedILMA-STR-006Failed to Submit RecordELMA-STR-007Empty input dataELMA-STR-008Account Category is mandatory \$1ELMA-STR-009No Header account exists for the structureELMA-STR-010No Child account exists for the structureELMA-STR-011Pool Structure Type cannot have Account Type as SweepELMA-STR-012Sweep Structure Type cannot have Account Type as PoolELMA-STR-013Hybrid Structure Type should have both Account Type Pool and SweepELMA-STR-014All Selected Accounts must be used in Structure!!!ELMA-STR-016Structure Status is IncompleteELMA-STR-017No account exists for the structureELMA-STR-018Interest Method should be I for sweep and hybrid structureELMA-STR-019Effective Date should be before than end dateELMA-STR-019Effective Date should be specified for structure having reallocation method as Central DistributionE
LMA-STR-007Empty input dataELMA-STR-008Account Category is mandatory \$1ELMA-STR-009No Header account exists for the structureELMA-STR-010No Child account exists for the structureELMA-STR-011Pool Structure Type cannot have Account Type as SweepELMA-STR-012Sweep Structure Type cannot have Account Type as PoolELMA-STR-013Hybrid Structure Type should have both Account Type Pool and SweepELMA-STR-014All Selected Accounts must be used in Structure!!!ELMA-STR-015No Linked Account dataELMA-STR-017No account exists for the structureELMA-STR-018Interest Method should be I for sweep and hybrid structureELMA-STR-019Effective Date should be before than end dateELMA-STR-019structure having reallocation method as CentralE
LMA-STR-008Account Category is mandatory \$1ELMA-STR-008Account Category is mandatory \$1ELMA-STR-009No Header account exists for the structureELMA-STR-010No Child account exists for the structureELMA-STR-011Pool Structure Type cannot have Account Type as SweepELMA-STR-012Sweep Structure Type cannot have Account Type as PoolELMA-STR-013Hybrid Structure Type should have both Account Type Pool and SweepELMA-STR-014All Selected Accounts must be used in Structure!!!ELMA-STR-015No Linked Account dataELMA-STR-016Structure Status is IncompleteELMA-STR-017No account exists for the structureELMA-STR-018Interest Method should be I for sweep and hybrid structureELMA-STR-019Effective Date should be specified for structure having reallocation method as CentralE
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LMA-STR-011Pool Structure Type cannot have Account Type as SweepELMA-STR-012Sweep Structure Type cannot have Account Type as PoolELMA-STR-012Hybrid Structure Type should have both Account Type Pool and SweepELMA-STR-013Hybrid Structure Type should have both Account Type Pool and SweepELMA-STR-014All Selected Accounts must be used in Structure!!!ELMA-STR-015No Linked Account dataELMA-STR-016Structure Status is IncompleteELMA-STR-017No account exists for the structureELMA-STR-018Interest Method should be I for sweep and hybrid structureELMA-STR-019Effective Date should be before than end dateELMA-STR-020structure having reallocation method as CentralE
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LMA-STR-018structureELMA-STR-019Effective Date should be before than end dateECentral Account Details should be specified for structure having reallocation method as CentralE
LMA-STR-020       Central Account Details should be specified for structure having reallocation method as Central       E
LMA-STR-020 structure having reallocation method as Central 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-025Structure Status is nullE
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-029Structure Priority is nullE



LMA-STR-030Structure Source is nullELMA-STR-031Structure Post Sweep Balance is nullELMA-STR-032Structure Interest Method is nullELMA-STR-033Structure Balance Type is nullELMA-STR-034Structure FX Rate Pick up is nullELMA-STR-035Account is not active \$1ELMA-STR-036Account is not active or does not exist in Oracle Banking Liquidity Management \$1ELMA-STR-037Child Account \$1 customer \$2 is not child of Parent CustomerELMA-STR-038Child account cannot be a Notional Account \$1ELMA-STR-039Parent Account cannot be an External Account \$1ELMA-STR-040Child of a Notional Account cannot be Sweep Type \$1E
LMA-STR-032Structure Interest Method is nullELMA-STR-033Structure Balance Type is nullELMA-STR-034Structure FX Rate Pick up is nullELMA-STR-035Account is not active \$1ELMA-STR-036Account is not active or does not exist in Oracle Banking Liquidity Management \$1ELMA-STR-037Child Account \$1 customer \$2 is not child of Parent CustomerELMA-STR-038Child account cannot be a Notional Account \$1ELMA-STR-039Parent Account cannot be an External Account \$1ELMA-STR-040Child of a Notional Account cannot be Sweep Type \$1E
LMA-STR-033Structure Balance Type is nullELMA-STR-034Structure FX Rate Pick up is nullELMA-STR-035Account is not active \$1ELMA-STR-036Account is not active or does not exist in Oracle Banking Liquidity Management \$1ELMA-STR-037Child Account \$1 customer \$2 is not child of Parent CustomerELMA-STR-038Child account cannot be a Notional Account \$1ELMA-STR-039Parent Account cannot be an External Account \$1ELMA-STR-040Child of a Notional Account cannot be Sweep Type \$1E
LMA-STR-034Structure FX Rate Pick up is nullELMA-STR-035Account is not active \$1ELMA-STR-036Account is not active or does not exist in Oracle Banking Liquidity Management \$1ELMA-STR-037Child Account \$1 customer \$2 is not child of Parent CustomerELMA-STR-038Child account cannot be a Notional Account \$1ELMA-STR-039Parent Account cannot be an External Account \$1ELMA-STR-040Child of a Notional Account cannot be Sweep Type \$1E
LMA-STR-035Account is not active \$1ELMA-STR-036Account is not active or does not exist in Oracle Banking Liquidity Management \$1ELMA-STR-036Child Account \$1 customer \$2 is not child of Parent CustomerELMA-STR-037Child Account \$1 customer \$2 is not child of Parent CustomerELMA-STR-038Child account cannot be a Notional Account \$1ELMA-STR-039Parent Account cannot be an External Account \$1ELMA-STR-040Child of a Notional Account cannot be Sweep Type \$1E
LMA-STR-036Account is not active or does not exist in Oracle Banking Liquidity Management \$1ELMA-STR-037Child Account \$1 customer \$2 is not child of Parent CustomerELMA-STR-038Child account cannot be a Notional Account \$1ELMA-STR-039Parent Account cannot be an External Account \$1ELMA-STR-040Child of a Notional Account cannot be Sweep Type \$1E
LMA-STR-036Banking Liquidity Management \$1ELMA-STR-037Child Account \$1 customer \$2 is not child of Parent CustomerELMA-STR-038Child account cannot be a Notional Account \$1ELMA-STR-039Parent Account cannot be an External Account \$1ELMA-STR-040Child of a Notional Account cannot be Sweep Type \$1E
LMA-STR-037Parent CustomerELMA-STR-038Child account cannot be a Notional Account \$1ELMA-STR-039Parent Account cannot be an External Account \$1ELMA-STR-040Child of a Notional Account cannot be Sweep Type \$1E
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         Pool type account cannot have instruction       E
LMA-STR-040       Child of a Notional Account cannot be Sweep         Type \$1       E         Pool type account cannot have instruction
LMA-STR-040     Type \$1       Pool type account cannot have instruction
Pool type account cannot have instruction
LMA-STR-041 E attached
LMA-STR-042Pool type account cannot have payment instruction attached \$1E
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
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 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	E
	the frequency \$1	
LMA-STR-059	Header Account of a Pool or Hybrid Structure	E
	should be Notional Account \$1	
LMA-STR-060	Header Account of a Pool or Hybrid Structure	E
	should have reallocation method defined \$1	
LMA-STR-061	Acc Level is not correct for account number \$1	E
LMA-STR-062	Account Sweep priority is same for account	E
	number \$1	
LMA-STR-063	Multiple Instruction frequency should be different	E
	\$1	
LMA-STR-064	System Branch does not exist in Oracle Banking	E
	Liquidity Management	_
LMA-STR-065	Error in Account Create/Auth	E
LMA-STR-066	Structure Created and Authorized Successfully \$1	1
LMA-STR-067	Failed to authorize Structure \$1	E
LMA-STR-068	Structure Created Successfully \$1	1
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	E
	mapping is not correct	
	Structure Modified and Authorized Successfully -	1
LMA-STR-077		



LMA-STR-078	Structure Modified Successfully: \$1	1
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.	Ι
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	1
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
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	1
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	1
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.	1
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.	Ι
LMB-BAT-011	File Uploaded successfully.	1
LMB-BAT-012	Batch Data Next Run date updated.	1
LMB-BIC-001	Bank Record Authorized successfully in Core bank and Oracle Banking Liquidity Management for \$1.	1
LMB-BIC-002	Error in Bank record saving.	E
LMB-BIC-003	Bic Code \$1 uploaded successfully	1
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



	I	1
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 inititiated 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.	1



LMB-CTRY-002Error while authorizing LM CountryELMB-CTRY-003Error while saving LM CountryELMB-CTRY-004Error while saving Core Country.ELMB-CTRY-005Error while saving Core CountryELMB-CTRY-006Country Code is nullELMB-CTRY-007Description is nullELMB-CTRY-008IBAN Check is nullELMB-CTRY-008IBAN Check is nullELMB-CUR-001Currency CutOff record authorized Successfully in Oracle Banking Liquidity ManagementILMB-CUR-002Error in Currency cutoff savingELMB-CUR-003Banking Liquidity Management and Common Core for \$1ILMB-CUR-004Error in Currency Core record saving.ELMB-CUR-005Error in Currency Core record saving.ELMB-CUR-006Error while authorizing Currency HolidayILMB-CUR-006Error while authorizing Currency HolidayELMB-CUR-007Currency Exchange Rate uploaded successfullyELMB-CUR-008Error while authorizing Currency Exchange RateELMB-CUR-010Currency 1 is nullELMB-CUR-011Error while saving Currency Exchange RateELMB-CUR-013Currency 2 is nullELMB-CUR-014Currency 2 is nullELMB-CUR-015Currency 2 is nullELMB-CUR-014Currency 2 is nullELMB-CUR-015Currency Code is nullELMB-CUR-014Error while authorizing LM CustomerELMB-CUST-003 <th></th> <th></th> <th></th>			
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LMB-CUR-001Currency CutOff record authorized Successfully in Oracle Banking Liquidity ManagementILMB-CUR-002Error in Currency cutoff savingELMB-CUR-003Error in Currency cutoff savingELMB-CUR-003Banking Liquidity Management and Common Core for \$1ILMB-CUR-004Error in Currency Definition savingELMB-CUR-005Error in Currency Core record saving.ELMB-CUR-006Error in Currency savingELMB-CUR-007Currency Holiday uploaded successfullyILMB-CUR-008Error while authorizing Currency HolidayELMB-CUR-010Currency Exchange Rate uploaded successfullyELMB-CUR-011Error while saving Currency Exchange RateELMB-CUR-012Error while saving Currency Exchange RateELMB-CUR-013Currency 1 is nullELMB-CUR-014Currency 2 is nullELMB-CUR-015Currency Code is nullELMB-CUR-014Error while authorizing LM CustomerELMB-CUST-003Error while saving LM CustomerELMB-CUST-004Error while saving LM CustomerE	LMB-CTRY-007	Description is null	E
LMB-CUR-001Oracle Banking Liquidity ManagementILMB-CUR-002Error in Currency cutoff savingELMB-CUR-003Currency record authorized Successfully in Oracle Banking Liquidity Management and Common Core for \$1ILMB-CUR-004Error in Currency Definition savingELMB-CUR-005Error in Currency Core record saving.ELMB-CUR-006Error in Currency savingELMB-CUR-007Currency Holiday uploaded successfullyILMB-CUR-008Error while authorizing Currency HolidayELMB-CUR-010Currency Exchange Rate uploaded successfullyELMB-CUR-011Error while authorizing Currency Exchange RateELMB-CUR-012Error while authorizing Currency Exchange RateELMB-CUR-011Error while saving Currency Exchange RateELMB-CUR-012Error while saving Currency Exchange RateELMB-CUR-013Currency 1 is nullELMB-CUR-014Currency 2 is nullELMB-CUST-001Customer uploaded successfullyILMB-CUST-002Error while authorizing LM CustomerELMB-CUST-003Error while authorizing LM CustomerELMB-CUST-004Error while authorizing Core CustomerE	LMB-CTRY-008	IBAN Check is null	E
LMB-CUR-003Currency record authorized Successfully in Oracle Banking Liquidity Management and Common Core for \$1ILMB-CUR-004Error in Currency Definition savingELMB-CUR-005Error in Currency Core record saving.ELMB-CUR-006Error in Currency savingELMB-CUR-007Currency Holiday uploaded successfullyILMB-CUR-008Error while authorizing Currency HolidayELMB-CUR-009Error while saving Currency HolidayELMB-CUR-010Currency Exchange Rate uploaded successfullyELMB-CUR-011Error while authorizing Currency Exchange RateELMB-CUR-012Error while saving Currency Exchange RateELMB-CUR-013Currency 1 is nullELMB-CUR-014Currency 2 is nullELMB-CUR-015Currency Code is nullELMB-CUST-001Error while authorizing LM CustomerELMB-CUST-003Error while saving LM CustomerELMB-CUST-004Error while authorizing Core CustomerE	LMB-CUR-001		1
LMB-CUR-003Banking Liquidity Management and Common Core for \$1ILMB-CUR-004Error in Currency Definition savingELMB-CUR-005Error in Currency Core record saving.ELMB-CUR-006Error in Currency savingELMB-CUR-007Currency Holiday uploaded successfullyILMB-CUR-008Error while authorizing Currency HolidayELMB-CUR-009Error while saving Currency HolidayELMB-CUR-010Currency Exchange Rate uploaded successfullyELMB-CUR-011Error while authorizing Currency Exchange RateELMB-CUR-012Error while saving Currency Exchange RateELMB-CUR-013Currency 1 is nullELMB-CUR-014Currency Code is nullELMB-CUST-001Customer uploaded successfullyILMB-CUST-003Error while authorizing LM CustomerELMB-CUST-004Error while authorizing Core CustomerE	LMB-CUR-002	Error in Currency cutoff saving	E
LMB-CUR-005Error in Currency Core record saving.ELMB-CUR-006Error in Currency savingELMB-CUR-007Currency Holiday uploaded successfullyILMB-CUR-008Error while authorizing Currency HolidayELMB-CUR-009Error while saving Currency HolidayELMB-CUR-010Currency Exchange Rate uploaded successfullyELMB-CUR-011Error while authorizing Currency Exchange RateELMB-CUR-012Error while saving Currency Exchange RateELMB-CUR-013Currency 1 is nullELMB-CUR-014Currency Code is nullELMB-CUST-001Customer uploaded successfullyILMB-CUST-003Error while authorizing LM CustomerELMB-CUST-004Error while saving LM CustomerE	LMB-CUR-003	Banking Liquidity Management and Common	1
LMB-CUR-006Error in Currency savingELMB-CUR-007Currency Holiday uploaded successfullyILMB-CUR-008Error while authorizing Currency HolidayELMB-CUR-009Error while saving Currency HolidayELMB-CUR-010Currency Exchange Rate uploaded successfullyELMB-CUR-011Error while authorizing Currency Exchange RateELMB-CUR-012Error while saving Currency Exchange RateELMB-CUR-013Currency 1 is nullELMB-CUR-014Currency 2 is nullELMB-CUST-001Customer uploaded successfullyILMB-CUST-002Error while authorizing LM CustomerELMB-CUST-004Error while saving LM CustomerE	LMB-CUR-004	Error in Currency Definition saving	E
LMB-CUR-007Currency Holiday uploaded successfullyILMB-CUR-008Error while authorizing Currency HolidayELMB-CUR-009Error while saving Currency HolidayELMB-CUR-010Currency Exchange Rate uploaded successfullyELMB-CUR-011Error while authorizing Currency Exchange RateELMB-CUR-012Error while authorizing Currency Exchange RateELMB-CUR-013Currency 1 is nullELMB-CUR-014Currency 2 is nullELMB-CUR-015Currency Code is nullELMB-CUST-001Error while authorizing LM CustomerELMB-CUST-003Error while saving LM CustomerELMB-CUST-004Error while authorizing Core CustomerE	LMB-CUR-005	Error in Currency Core record saving.	E
LMB-CUR-008Error while authorizing Currency HolidayELMB-CUR-009Error while saving Currency HolidayELMB-CUR-010Currency Exchange Rate uploaded successfullyELMB-CUR-011Error while authorizing Currency Exchange RateELMB-CUR-012Error while saving Currency Exchange RateELMB-CUR-013Currency 1 is nullELMB-CUR-014Currency 2 is nullELMB-CUR-015Currency Code is nullELMB-CUST-001Error while authorizing LM CustomerELMB-CUST-003Error while saving LM CustomerELMB-CUST-004Error while authorizing Core CustomerE	LMB-CUR-006	Error in Currency saving	E
LMB-CUR-009Error while saving Currency HolidayELMB-CUR-010Currency Exchange Rate uploaded successfullyELMB-CUR-011Error while authorizing Currency Exchange RateELMB-CUR-012Error while saving Currency Exchange RateELMB-CUR-013Currency 1 is nullELMB-CUR-014Currency 2 is nullELMB-CUR-015Currency Code is nullELMB-CUST-001Customer uploaded successfullyILMB-CUST-002Error while authorizing LM CustomerELMB-CUST-004Error while saving LM CustomerE	LMB-CUR-007	Currency Holiday uploaded successfully	1
LMB-CUR-010Currency Exchange Rate uploaded successfullyELMB-CUR-011Error while authorizing Currency Exchange RateELMB-CUR-012Error while saving Currency Exchange RateELMB-CUR-013Currency 1 is nullELMB-CUR-014Currency 2 is nullELMB-CUR-015Currency Code is nullELMB-CUST-001Customer uploaded successfullyILMB-CUST-002Error while authorizing LM CustomerELMB-CUST-003Error while saving LM CustomerELMB-CUST-004Error while authorizing Core CustomerE	LMB-CUR-008	Error while authorizing Currency Holiday	E
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LMB-CUR-012Error while saving Currency Exchange RateELMB-CUR-0013Currency 1 is nullELMB-CUR-014Currency 2 is nullELMB-CUR-015Currency Code is nullELMB-CUST-001Customer uploaded successfullyILMB-CUST-002Error while authorizing LM CustomerELMB-CUST-003Error while saving LM CustomerELMB-CUST-004Error while authorizing Core CustomerE	LMB-CUR-010	Currency Exchange Rate uploaded successfully	E
LMB-CUR-0013Currency 1 is nullELMB-CUR-014Currency 2 is nullELMB-CUR-015Currency Code is nullELMB-CUST-001Customer uploaded successfullyILMB-CUST-002Error while authorizing LM CustomerELMB-CUST-003Error while saving LM CustomerELMB-CUST-004Error while authorizing Core CustomerE	LMB-CUR-011	Error while authorizing Currency Exchange Rate	E
LMB-CUR-014Currency 2 is nullELMB-CUR-015Currency Code is nullELMB-CUST-001Customer uploaded successfullyILMB-CUST-002Error while authorizing LM CustomerELMB-CUST-003Error while saving LM CustomerELMB-CUST-004Error while authorizing Core CustomerE	LMB-CUR-012	Error while saving Currency Exchange Rate	E
LMB-CUR-015Currency Code is nullELMB-CUST-001Customer uploaded successfullyILMB-CUST-002Error while authorizing LM CustomerELMB-CUST-003Error while saving LM CustomerELMB-CUST-004Error while authorizing Core CustomerE	LMB-CUR-0013	Currency 1 is null	E
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LMB-CUST-002Error while authorizing LM CustomerELMB-CUST-003Error while saving LM CustomerELMB-CUST-004Error while authorizing Core CustomerE	LMB-CUR-015	Currency Code is null	E
LMB-CUST-003     Error while saving LM Customer     E       LMB-CUST-004     Error while authorizing Core Customer     E	LMB-CUST-001	Customer uploaded successfully	I
LMB-CUST-004     Error while authorizing Core Customer     E	LMB-CUST-002	Error while authorizing LM Customer	E
	LMB-CUST-003	Error while saving LM Customer	E
LMB-CUST-005         Error while saving Core 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
		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	E
	Maintenances for Authorization.	E
	Failed to initiated EOD - Branch Contains Sweeps	E
LMB-EOD-002	with Pending status.	E
	Failed to initiated EOD - EOD for branch is	
LMB-EOD-003	already completed.	E
	Failed to initiated EOD - EOD for branch is	-
LMB-EOD-004	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 inititiated for branch:- \$1.	I
LMB-EOD-009	Failed to initiated EOD Post IC - EOD Post IC for	E
LIMB-EOD-009	branch is already completed.	E
	Failed to initiated EOD Post IC - EOD Post IC for	E
LMB-EOD-010	branch is already in progress.	E
	Failed to initiated EOD Post IC - EOD Pre IC for	-
LMB-EOD-011	branch is not completed.	E
LMB-EOD-012	Failed to initiated EOD Post IC.	E
LMB-EOD-013	Date Flip for branch completed:- \$1	1
LMB-EOD-014	Failed to initiated Date Flip.	E
	Failed to initiated Date Flip - EOD Post IC for	
LMB-EOD-015	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	Exteranl 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 inititiated 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	1
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	Ι
LMM-ACC-015	Failure Authorizing account	E
LMM-ACC-016	Account Updated Successfully	1
LMM-ACC-017	Account Balances Updated Successfully	1



RMLINK-COM-001	User cannot create/modify own records.	E
LMP-POOL-001	Pool not allowed at System level	1
LMP-POOL-002	No Structure exists with given Structure Id	E
LMP-POOL-003	Pool Initiated for structure	1
LMP-POOL-004	Pool Initiated for Branch	Ι
LMP-POOL-005	Reallocation Initiated for structure	Ι
LMP-POOL-006	Reallocation executed for Structures	Ι
RTL-ERR-001	RTL Structure for account does not exist.	E
LMA-STR-001	Structure Validation Successful!!!	Ι
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	1
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-019Effective Date should be before than end dateELMA-STR-020Central Account Details should be specified for structure having reallocation method as Central DistributionELMA-STR-021Central Account is not activeELMA-STR-022Central Account does not exist in Oracle Banking Liquidity Management \$1ELMA-STR-023Structure Id or version no is null \$1ELMA-STR-024Structure Type is nullELMA-STR-025Structure Type is nullELMA-STR-026Structure Description is nullELMA-STR-027Structure Effective Date is nullELMA-STR-028Structure Priority is nullELMA-STR-029Structure Priority is nullELMA-STR-030Structure Priority is nullELMA-STR-031Structure Priority is nullELMA-STR-033Structure Balance Type is nullELMA-STR-034Structure FX Rate Pick up is nullELMA-STR-035Account is not active or does not exist in Oracle Banking Liquidity Management \$1ELMA-STR-036Child Account \$1 customer \$2 is not child of Parent CustomerE			
LMA-STR-020structure having reallocation method as Central DistributionELMA-STR-021Central Account is not activeELMA-STR-022Central Account does not exist in Oracle Banking Liquidity Management \$1ELMA-STR-023Structure Id or version no is null \$1ELMA-STR-024Structure Type is nullELMA-STR-025Structure Status is nullELMA-STR-026Structure Description is nullELMA-STR-027Structure Effective Date is nullELMA-STR-028Structure Priority is nullELMA-STR-029Structure Priority is nullELMA-STR-030Structure Priority is nullELMA-STR-031Structure Post Sweep Balance is nullELMA-STR-033Structure Balance Type is nullELMA-STR-034Structure FX Rate Pick up is nullELMA-STR-036Account is not active or does not exist in Oracle Banking Liquidity Management \$1ELMA-STR-037Child Account \$1 customer \$2 is not child of Parent CustomerE	LMA-STR-019	Effective Date should be before than end date	E
LMA-STR-021DistributionELMA-STR-021Central Account is not activeELMA-STR-022Central Account does not exist in Oracle Banking Liquidity Management \$1ELMA-STR-023Structure Id or version no is null \$1ELMA-STR-024Structure Type is nullELMA-STR-025Structure Status is nullELMA-STR-026Structure Description is nullELMA-STR-027Structure Effective Date is nullELMA-STR-028Structure End Date is nullELMA-STR-029Structure Priority is nullELMA-STR-030Structure Priority is nullELMA-STR-031Structure Post Sweep Balance is nullELMA-STR-033Structure Balance Type is nullELMA-STR-034Structure FX Rate Pick up is nullELMA-STR-035Account is not active or does not exist in Oracle Banking Liquidity Management \$1ELMA-STR-036Child Account \$1 customer \$2 is not child of Parent CustomerE		Central Account Details should be specified for	
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LMA-STR-022Central Account does not exist in Oracle Banking Liquidity Management \$1ELMA-STR-023Structure Id or version no is null \$1ELMA-STR-024Structure Type is nullELMA-STR-025Structure Status is nullELMA-STR-026Structure Description is nullELMA-STR-027Structure Effective Date is nullELMA-STR-028Structure End Date is nullELMA-STR-029Structure Priority is nullELMA-STR-030Structure Priority is nullELMA-STR-031Structure Post Sweep Balance is nullELMA-STR-032Structure Interest Method is nullELMA-STR-034Structure FX Rate Pick up is nullELMA-STR-035Account is not active \$1ELMA-STR-036Account \$1 customer \$2 is not child of Parent CustomerE		Distribution	
LMA-STR-022Liquidity Management \$1ELMA-STR-023Structure Id or version no is null \$1ELMA-STR-024Structure Type is nullELMA-STR-025Structure Status is nullELMA-STR-026Structure Description is nullELMA-STR-027Structure Effective Date is nullELMA-STR-028Structure End Date is nullELMA-STR-029Structure Priority is nullELMA-STR-030Structure Priority is nullELMA-STR-031Structure Post Sweep Balance is nullELMA-STR-033Structure Interest Method is nullELMA-STR-034Structure FX Rate Pick up is nullELMA-STR-035Account is not active \$1ELMA-STR-036Account \$1 customer \$2 is not child of Parent CustomerE	LMA-STR-021	Central Account is not active	E
Liquidity Management \$1ELMA-STR-023Structure Id or version no is null \$1ELMA-STR-024Structure Type is nullELMA-STR-025Structure Status is nullELMA-STR-026Structure Description is nullELMA-STR-027Structure Effective Date is nullELMA-STR-028Structure End Date is nullELMA-STR-029Structure Priority is nullELMA-STR-030Structure Priority is nullELMA-STR-031Structure Post Sweep Balance is nullELMA-STR-032Structure Interest Method is nullELMA-STR-033Structure FX Rate Pick up is nullELMA-STR-035Account is not active \$1ELMA-STR-036Account is not active or does not exist in Oracle Banking Liquidity Management \$1ELMA-STR-037Child Account \$1 customer \$2 is not child of Parent CustomerE	I MA-STR-022	Central Account does not exist in Oracle Banking	F
LMA-STR-024Structure Type is nullELMA-STR-025Structure Status is nullELMA-STR-026Structure Description is nullELMA-STR-027Structure Effective Date is nullELMA-STR-028Structure End Date is nullELMA-STR-029Structure Priority is nullELMA-STR-030Structure Source is nullELMA-STR-031Structure Post Sweep Balance is nullELMA-STR-032Structure Interest Method is nullELMA-STR-033Structure React Type is nullELMA-STR-034Structure Source Is nullELMA-STR-035Account is not active \$1ELMA-STR-036Account is not active or does not exist in Oracle Banking Liquidity Management \$1ELMA-STR-037Child Account \$1 customer \$2 is not child of Parent CustomerE		Liquidity Management \$1	L
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LMA-STR-026Structure Description is nullELMA-STR-027Structure Effective Date is nullELMA-STR-028Structure End Date is nullELMA-STR-029Structure Priority is nullELMA-STR-030Structure Source is nullELMA-STR-031Structure Post Sweep Balance is nullELMA-STR-032Structure Interest Method is nullELMA-STR-033Structure Balance Type is nullELMA-STR-034Structure FX Rate Pick up is nullELMA-STR-035Account is not active \$1ELMA-STR-036Child Account \$1 customer \$2 is not child of Parent CustomerE	LMA-STR-024	Structure Type is null	E
LMA-STR-027Structure Effective Date is nullELMA-STR-028Structure End Date is nullELMA-STR-029Structure Priority is nullELMA-STR-030Structure Source is nullELMA-STR-031Structure Post Sweep Balance is nullELMA-STR-032Structure Interest Method is nullELMA-STR-033Structure Balance Type is nullELMA-STR-034Structure FX Rate Pick up is nullELMA-STR-035Account is not active \$1ELMA-STR-036Child Account \$1 customer \$2 is not child of Parent CustomerE	LMA-STR-025	Structure Status is null	E
LMA-STR-028Structure End Date is nullELMA-STR-029Structure Priority is nullELMA-STR-030Structure Source is nullELMA-STR-031Structure Post Sweep Balance is nullELMA-STR-032Structure Interest Method is nullELMA-STR-033Structure Balance Type is nullELMA-STR-034Structure FX Rate Pick up is nullELMA-STR-035Account is not active \$1ELMA-STR-036Account is not active or does not exist in Oracle Banking Liquidity Management \$1ELMA-STR-037Child Account \$1 customer \$2 is not child of Parent CustomerE	LMA-STR-026	Structure Description is null	E
LMA-STR-029Structure Priority is nullELMA-STR-030Structure Source is nullELMA-STR-031Structure Post Sweep Balance is nullELMA-STR-032Structure Interest Method is nullELMA-STR-033Structure Balance Type is nullELMA-STR-034Structure FX Rate Pick up is nullELMA-STR-035Account is not active \$1ELMA-STR-036Account is not active or does not exist in Oracle Banking Liquidity Management \$1ELMA-STR-037Child Account \$1 customer \$2 is not child of Parent CustomerE	LMA-STR-027	Structure Effective Date is null	E
LMA-STR-030Structure Source is nullELMA-STR-031Structure Post Sweep Balance is nullELMA-STR-032Structure Interest Method is nullELMA-STR-033Structure Interest Method is nullELMA-STR-034Structure Balance Type is nullELMA-STR-035Account is not active \$1ELMA-STR-036Account is not active or does not exist in Oracle Banking Liquidity Management \$1ELMA-STR-037Child Account \$1 customer \$2 is not child of Parent CustomerE	LMA-STR-028	Structure End Date is null	E
LMA-STR-031Structure Post Sweep Balance is nullELMA-STR-032Structure Interest Method is nullELMA-STR-033Structure Balance Type is nullELMA-STR-034Structure FX Rate Pick up is nullELMA-STR-035Account is not active \$1ELMA-STR-036Account is not active or does not exist in Oracle Banking Liquidity Management \$1ELMA-STR-037Child Account \$1 customer \$2 is not child of Parent CustomerE	LMA-STR-029	Structure Priority is null	E
LMA-STR-032Structure Interest Method is nullELMA-STR-033Structure Balance Type is nullELMA-STR-034Structure FX Rate Pick up is nullELMA-STR-035Account is not active \$1ELMA-STR-036Account is not active or does not exist in Oracle Banking Liquidity Management \$1ELMA-STR-037Child Account \$1 customer \$2 is not child of Parent CustomerE	LMA-STR-030	Structure Source is null	E
LMA-STR-033Structure Balance Type is nullELMA-STR-034Structure FX Rate Pick up is nullELMA-STR-035Account is not active \$1ELMA-STR-036Account is not active or does not exist in Oracle Banking Liquidity Management \$1ELMA-STR-037Child Account \$1 customer \$2 is not child of Parent CustomerE	LMA-STR-031	Structure Post Sweep Balance is null	E
LMA-STR-034Structure FX Rate Pick up is nullELMA-STR-035Account is not active \$1ELMA-STR-036Account is not active or does not exist in Oracle Banking Liquidity Management \$1ELMA-STR-037Child Account \$1 customer \$2 is not child of Parent CustomerE	LMA-STR-032	Structure Interest Method is null	E
LMA-STR-035Account is not active \$1ELMA-STR-036Account is not active or does not exist in Oracle Banking Liquidity Management \$1ELMA-STR-037Child Account \$1 customer \$2 is not child of Parent CustomerE	LMA-STR-033	Structure Balance Type is null	E
LMA-STR-036Account is not active or does not exist in Oracle Banking Liquidity Management \$1ELMA-STR-037Child Account \$1 customer \$2 is not child of Parent CustomerE	LMA-STR-034	Structure FX Rate Pick up is null	E
LMA-STR-036Banking Liquidity Management \$1ELMA-STR-037Child Account \$1 customer \$2 is not child of Parent CustomerE	LMA-STR-035	Account is not active \$1	E
Banking Liquidity Management \$1         LMA-STR-037         Child Account \$1 customer \$2 is not child of Parent Customer	I MA-STR-036	Account is not active or does not exist in Oracle	F
LMA-STR-037 E Parent Customer		Banking Liquidity Management \$1	-
Parent Customer	I MA-STR-037	Child Account \$1 customer \$2 is not child of	F
LMA STR 038 Child account cannot be a National Account \$1		Parent Customer	-
	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-039	Parent Account cannot be an External Account \$1	E
LMA-STR-040 Child of a Notional Account cannot be Sweep E	I MA-STR-040	Child of a Notional Account cannot be Sweep	F
Type \$1		Type \$1	-
LMA-STR-041 Pool type account cannot have instruction E	I MA-STR-041	Pool type account cannot have instruction	F
attached		attached	
LMA-STR-042 Pool type account cannot have payment E	I MA-STR-042	Pool type account cannot have payment	F
instruction attached \$1		instruction attached \$1	-



	Sweep type account should have payment	
LMA-STR-043	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-066Structure Created and Authorized Successfully \$1ILMA-STR-067Failed to authorize Structure \$1ELMA-STR-068Structure Created Successfully \$1ILMA-STR-069Failed to Create Structure \$1ELMA-STR-070Failed to Create Structure \$1ELMA-STR-071Customer not mapped with the userELMA-STR-072No Customer is mapped with the userELMA-STR-073data[0] may not be nullELMA-STR-074No User Customer Linkage is availableELMA-STR-075Error in Structure creationELMA-STR-076Failed to validate Structure Id \$1 as customer mapping is not correctELMA-STR-077Structure Modified and Authorized Successfully - \$1ILMA-STR-078Structure Modified Successfully: \$1ILMA-STR-079Failed to Modify Structure: \$1ELMA-STR-080Failed to Modify Structure Id \$1 as Previous Version of Structure is not availableELMA-STR-081Failed to Modify Structure Id \$1 as Previous Version of Structure is not availableELMA-STR-082Error in Structure modifyELMA-STR-083Next Run Date Updated.ILMA-STR-084Account Record Nut Authorized successfully.ILMA-STR-085Account Record Nut Authorized.ESW-ERR-006No Structure selected.ESW-ERR-007No Acc pair selected.ESW-ERR-008Structure is not active:- \$1E			
LMA-STR-068Structure Created Successfully \$1ILMA-STR-069Failed to Create Structure \$1ELMA-STR-070Failed to Create Structure 1d:-\$1ELMA-STR-071Customer not mapped with the userELMA-STR-072No Customer is mapped with the userELMA-STR-073data[0] may not be nullELMA-STR-074No User Customer Linkage is availableELMA-STR-075Error in Structure creationELMA-STR-076Failed to validate Structure Id \$1 as customer mapping is not correctELMA-STR-077Structure Modified and Authorized Successfully - \$11LMA-STR-078Structure Modified Successfully: \$1ILMA-STR-079Failed to Modify Structure: \$1ELMA-STR-080Failed to Modify Structure Id \$1 as Previous Version of Structure is not availableELMA-STR-081Failed to Modify Structure Id \$1 as Previous Version of Structure is not availableELMA-STR-083Next Run Date UpdatedILMA-STR-084Account Record Authorized successfully.ILMA-STR-085Account Record Not Authorized.ESW-ERR-006No Structure selected.ESW-ERR-007No Acc pair selected.ESW-ERR-008Structure is not active:- \$1E	LMA-STR-066	Structure Created and Authorized Successfully \$1	I
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LMA-STR-070Failed to Create Structure Id:- \$1ELMA-STR-071Customer not mapped with the userELMA-STR-072No Customer is mapped with the userELMA-STR-073data[0] may not be nullELMA-STR-074No User Customer Linkage is availableELMA-STR-075Error in Structure creationELMA-STR-076Failed to validate Structure Id \$1 as customer mapping is not correctELMA-STR-077Structure Modified and Authorized Successfully - \$11LMA-STR-079Failed to Modify Structure: \$1ELMA-STR-079Failed to Modify Structure Id \$1 as Previous Version of Structure is not availableELMA-STR-081Failed to Modify Structure Id \$1 as Previous Version of Structure modifyELMA-STR-083Next Run Date UpdatedILMA-STR-084Account Record Not Authorized successfully.ILMA-STR-085Structure \$1 does not exist or not active.ESW-ERR-006No Structure selected.ESW-ERR-008Structure is not active:- \$1E	LMA-STR-068	Structure Created Successfully \$1	I
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LMA-STR-085Account Record Not Authorized.ESW-ERR-005Structure \$1 does not exist or not active.ESW-ERR-006No Structure selected.ESW-ERR-007No Acc pair selected.ESW-ERR-008Structure is not active:- \$1E	LMA-STR-083	Next Run Date Updated	I
SW-ERR-005Structure \$1 does not exist or not active.ESW-ERR-006No Structure selected.ESW-ERR-007No Acc pair selected.ESW-ERR-008Structure is not active:- \$1E	LMA-STR-084	Account Record Authorized successfully.	I
SW-ERR-006No Structure selected.ESW-ERR-007No Acc pair selected.ESW-ERR-008Structure is not active:- \$1E	LMA-STR-085	Account Record Not Authorized.	E
SW-ERR-007     No Acc pair selected.     E       SW-ERR-008     Structure is not active:- \$1     E	SW-ERR-005	Structure \$1 does not exist or not active.	E
SW-ERR-008     Structure is not active:- \$1     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	SW-ERR-009	Sweep Failed for Structures:- \$1	E
SW-ERR-010         Sweep executed for Structures.         I	SW-ERR-010	Sweep executed for Structures.	1
SW-ERR-011         Account Pair Record Already Exists.         E	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	E
0W-ENR-013	assigned.	L
SW-ERR-014	Previous handoff is not completed for account pair	E
3W-ERR-014	\$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	E
	range of defined minimum and maximum amount	L
LMC-ERR-002	Instruction is assigned to structure(s). Failed to	E
	close	L
LMM-ACC-018	Account Record Modified in IC and Authorized	1
	successfully	
LMM-ACC-019	Account Record Authorized successfully but failed	E
	to modify in IC	



# 6 Appendix A: Acronyms, Abbreviations, and Definitions

The following acronyms/abbreviations are used in this guide:

### Table 4: Acronyms and Abbreviations

Acronyms	Definition
SMS	Security Management System
СМС	Common Core
мос	Mid office Common Core
ELK	Elasticsearch Logstash Kibana



# 7 Appendix B: Related Documentation

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

