Troubleshooting Guide

Oracle Banking Branch

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Troubleshooting Guide

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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 troubleshoot the issues.

1.2 Audience

This guide is intended for the implementation teams.

1.3 Document Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

1.4 List of Topics

This manual is organized into the following topics:

Table 1: List of Topics

Торіс	Description
Troubleshooting Technical Flows	Explains the Oracle Banking Micro services Architecture platform wide troubleshooting of technical flows. This includes User Interface (UI) side checking, Service side logs, tracing using Zipkin, debugging with the use of ELK stack, and environment issues of WebLogic.
Health Checks and Verifications	Explains the health check measures and observability required. This topic is applicable for Oracle Banking Micro services Architecture platform wide troubleshooting.
Troubleshooting Functional Workflows	Explains the troubleshooting functional workflows applicable to Oracle Banking Branch.
Error Codes	Provides the list of possible error codes, messages, and type.
Appendix A	Provides the list of acronyms/abbreviations used in this guide



Торіс	Description
Appendix B	Provides the list of related documents.

1.5 Prerequisites for End Users

The prerequisites are as follows:

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

1.6 General Prevention

Do not make any 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

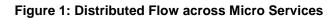
This topic describes various programming issues, possible causes, and solutions to resolve the issues. This topic contains the following sections:

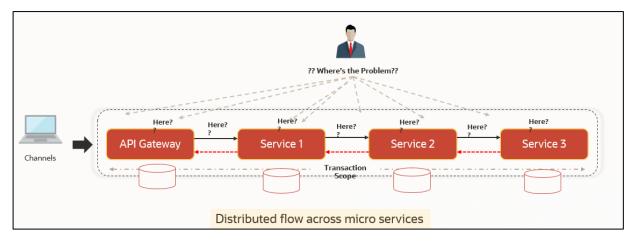
- 2.1 Where is the Problem
- 2.2 Preliminary Checks from UI
- 2.3 Preliminary Checks from Service Log Files
- 2.4 Troubleshooting using Zipkin Traces
- 2.5 Troubleshooting Logs using ELK Stack
- 2.6 Troubleshooting Environmental Issues

2.1 Where is the Problem

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

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.







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.

NOTE: Usually red color indicates non 2xx HTTP response.

Figure 2: Call Responses

🖟 🛅 Elements Console Sources Network Performance	Memory Application	Security Lighthou	ise		🙁 144 🔺 12 🗱
🛢 🔕 🛛 🝸 🔍 🗌 Preserve log 🗌 Disable cache 🗌 Online 🛛 🔻 🔤	<u>+</u>				
ilter 🗌 Hide data URLs 📶 XHR JS CSS Img M	edia Font Doc WS I	Manifest Other 🗌 Has	blocked cookies 🗌 Blocked Requests		
1000 ms 2000 ms 3000 ms 4000 ms 5000 ms 600	0 ms 7000 ms	8000 ms 9000 ms	10000 ms 11000 ms 12000 ms	s 13000 ms 14000 ms	15000 ms 16000 ms 17000 ms 18000 ms
lame	Status	Туре	Initiator	Size Time	Waterfall
1401	200		Other	0 B	73 ms
userpreferences?userId=AKASH&branchCode=000	200	xhr	jquery-3.4.1.min.js:2	647 B	82 ms
1401	200	xhr	jquery-3.4.1.min.js:2	1.1 kB	150 ms
1401	200		Other	0 B	64 ms
1401	200	xhr	jquery-3.4.1.min.js:2	1.6 kB	89 ms
ui?userId= 0001 &branchCode=000&ccaName=fsgbu-ob-remo-srv-vp-telle	200		Other	0 B	63 ms
ui?userId= 00051 &branchCode=000&ccaName=fsgbu-ob-remo-srv-vp-telle	200	xhr	jquery-3.4.1.min.js:2	661 B	74 ms
ui?userId= & &branchCode=000&ccaName=fsgbu-ob-remo-srv-ds-cash	200		Other	0 B	68 ms
ui?userId= & &branchCode=000&ccaName=fsgbu-ob-remo-srv-ds-char	200		Other	0 B	65 ms
ui?userId= 1006il &branchCode=000&ccaName=fsgbu-ob-remo-srv-ds-den	200		Other	0 B	64 ms
ui?userId= & &branchCode=000&ccaName=fsgbu-ob-remo-srv-ds-cash	200	xhr	jquery-3.4.1.min.js:2	661 B	84 ms
ui?userId=	200	xhr	jquery-3.4.1.min.js:2	748 B	234 ms
ui?userId= & &branchCode=000&ccaName=fsgbu-ob-remo-srv-ds-den	200	xhr	jquery-3.4.1.min.js:2	661 B	83 ms
GBP	200		Other	0 B	90 ms
CUSTOMER	200		Other	0 B	81 ms
GBP	200	xhr	jquery-3.4.1.min.js:2	3.6 kB	102 ms
CUSTOMER	200	xhr	jquery-3.4.1.min.js:2	820 B	273 ms
userpreferences?userId=000508branchCode=000	200	xhr	jquery-3.4.1.min.js:2	647 B	99 ms
tiles?userId= & Si & branchCode=000	200	xhr	jquery-3.4.1.min.js:2	4.0 kB	96 ms
0000000010048	200		Other	0 B	66 ms
10000100010019	200	xhr	jquery-3.4.1.min.js:2	1.6 kB	119 ms
] chargePickUp?txnAmount=100&txnCcy=GBP&accountBranchCode=000&fu	200		Other	0 B	64 ms
C	200		Other	0 B	62 ms
chargePickUp?txnAmount=100&txnCcy=GBP&accountBranchCode=000&fu	201	xhr	jquery-3.4.1.min.js:2	1.0 kB	109 ms
c	200	xhr	jguery-3.4.1.min.js:2	2.7 kB	137 ms

Figure 3: Non 2xx Response

Teller Transaction	Search	XQ					,,* ×
GL Description	GL CO AED				×	Cash Deposit Cash Withdraw	la l
Exchange Rate 1.00 V Negotiated Reference Number	Nego	RM-BC-XT-01: Fai	led in getting the exchange rate		ок	Cheque Wilddowal	
Reference Number	Marre	iecurity Performance	e Memory Application Lighth	louse		Account Domestic Transfer Transfer	Submit Cancel
🔴 🛇 🛛 🗑 🔍 🗹 Preserve log	Disable cache Or	line 🔻 🛓 🛓					\$
Name	Status	Туре	Initiator	Size	Time		Waterfall 🔺
1408	400	xhr	jquery-3.5.1.min.js:2	885 B			299 ms
1408	200		Other	0 B			17 ms
2 requests 885 B transferred 192 B	resources						
Console What's New × Search							×



Figure 4: Details of Non 2xx Response

Teller Transaction	h XQ	,* ×
GL Description	GL Curr S Error X Cash Deposit and Webday	
Soukaanan Baka	RM-BC-XT-01: Failed in getting the exchange rate	Submit Cancel
🕞 🗐 Elements Sources Console	Network Security Performance Memory Application Lighthouse	🛛 59 🗛 33 🛛 🏟 🗄 🗙
🔵 🛇 🗑 🔍 🗹 Preserve log 🗆 D	isable cache 🛛 Online 🔍 👲 🛓	\$
Name	× Headers Preview Response Initiator Timing	
1408	▼ General	×
1408	Request URL: https:// commissionare.com/2007/ant-gataney/finance.arv bin bine/finance.com/2007/ant-gataney/finance.arv bin bine/finance. Amt170Amt2/000/GBY/AED/100/1408 Request Method: GET Status Code: @-000 Bad Request Remote Address: commission12007/002 Referre Policy: strict-origin-when-cross-origin	services/web/vi/comment
2 requests 885 B transferred 192 B resou	▼ Response Headers view source Access-Control-Allow-Credentials: true Access-Control-Allow-Headers Access-Control-Allow-Headers Access-Control-Allow-Methods: GET, POST, PUT, DELETE, OPTIONS, HEAD, PATCH Access-Control-Allow-Origin: https:// mod.Correct.	
Console What's New × Search		×

NOTE: 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

	El	ements Cons	ole Sources	Network	Performance	Memory Ap	olication Secu	rity Lightho	use
• •	T	Q Pres	serve log 🗌 Dis	able cache 🛛 Or	nline 🔻 🔤	<u>+</u> <u>+</u>			
	5 ms	10 ms	15 ms	20 ms	25 ms	Export HAR		40 ms	

NOTE: The tools such as **fiddler** and **wireshark** can be used to get the browser to API gateway web traffic. This helps 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, make sure that the root level is configured as ERROR so that log files does not get overwhelmed. Refer to WebLogic documentation to know the path, where these files are generated. In on-premises cases, the log files can be zipped and sent for remote troubleshooting purposes.



2.4 Troubleshooting using Zipkin Traces

This section describes the troubleshooting procedures using the Zipkin Traces.

2.4.1 Setting Zipkin Server

Refer to below link for the document describes the installation of Zipkin:

https://docs.oracle.com/cd/F45529_01/PDF/Installation_Guide/ANNEXURE-2.pdf

2.4.2 Troubleshooting Procedure

Perform the following steps for the troubleshooting using Zipkin Traces:

1. Launch the Zipkin URL.

NOTE: The basic layout of Zipkin is shown in Figure 6.

Figure 6: Layout of Zipkin

	Span Name		Remote Service Name		Lookback	
zipkin 🗸 🗸		\sim		\sim		,
Innotation Query			Duration (µs) >=	Limit	Sort	
For example: http.path=/foo/bar/ ar	nd cluster=foo and cache.miss		Ex: 100ms or 5s			



- 2. Use the search option to find the traces of required API calls and services.
 - **NOTE:** The search options given in the user interface are self-explanatory, and there is another UI option (Try Lens UI). It is given a different user interface with the same functionality. The list of the traces can be seen as shown in *Figure 7*. Error API calls are made 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.

Figure 7: List of Traces

Service Name	Span Name		Remote Service Name	L	.ookback	
		\sim		~		Ŧ
Annotation Query			Duration (µs) >=	Limit	Sort	
For example: http.path=/fc	oo/bar/ and cluster=foo and cache.miss		Ex: 100ms or 5s			gest First 🔹 🔻
Find Traces Showing: 4 of 4 Services: zipkin						JSON 🛓
2.163s 5 spans zipkin 100%						
zipkin x5 2.163s						18 minutes ag
1.449s 4 spans						
zipkin 100% zipkin x4 1.449s						22 minutes ag
1.430s 4 spans zipkin 100%						

- 3. Open the individual trace to the details of the trace.
 - **NOTE:** *Figure 8* shows an individual trace when it is opened. It also describes the time taken for each block. As the two custom spans are created inside two service calls, you can find a total of four blocks. The time taken for an individual block can be seen in *Figure 8*.

Figure 8: Individual Trace

Duration: 2.1		Depth: 3	Total Spa	ns: 4		JSON 🛓
Expand All	Collapse All					
zipkin x4						
Services		432.639ms	865.278ms	1.298s	1.731s	2.16
🖻 zipkin	-2.163s : http://api1					
zipkin	- 1.001s : api1		. 0			
🖃 zipkin				1.068s : http://api2 -		
zipkin				1.001s : api2		



4. Click an individual block to display the details.

Figure 9:	Details	of Individual	Block
-----------	---------	---------------	-------

	Date Time	Relative	e Time	Annotation	Address		Search
in congoin by	9/10/2019, 4:11:23 PM			Server Start	10.184.89.16:8060 (zipkin)		
	9/10/2019, 4:11:25 PM	2.163s		Server Finish	10.184.89.16:8080 (zipkin)		
Duration: 2.163s	Кеу		Value				JSON 🛓
Expand All Collap	se http.host		localhost				
	http.method		GET				
zipkin x4	http.path		/api1				
Services	http.status_code		200			731s	
	.16 http.url		http://loc	alhost:8080/api1			
zipkin -	mvc.controller.class		Controlle	er			
zipkin -	mvc.controller.method		api1				
_	spring.instance_id			abathini.in.oracle.c			
	Show IDs						
	traceld	9d63	3642d72ab	o6f9f			
	spanId	9d63	3642d72ab	o6f9f			

NOTE: The details of the specific span block are shown in *Figure 9* and the logging events can also be seen in the Zipkin UI as small circular blocks. An example of an error log is shown in *Figure 10*.

Figure 10: Sample Error Log

	, , , , , , , , , , , , , , , , , , ,	a trace View Saved Trace I		Try Lens UI	Go to trace	Search
Duration: 1.0	26s Services: 1	Depth: 2	Total Spans	: 3		JSON 🛓
Expand All	Collapse All					
zipkin x3						
Services		205.134ms	410.267ms	615.401ms	820.534ms	1.0
 zipkin 	1.026s : http://api1					
	1.001s : api1					
zipkin						
zipkin						
zipkin						



5. Click on the error portion to get a clear detail about the error, and where the error has arisen. An example is shown in *Figure 11*.

		Date Time		Relative Time	Annotation	Address			
ion: 1.02	6s	9/11/2019, 6i09:01 PM			Server Start	10.964.89.16:3080 (zipkin)			
				1.026s	Server Finish	10.184.89.16:8080 (zipkin)			
nd All	Collapse /	Кеу	Value						
x3		error		t processing failed; rrorException: 500		s org.springframework.web.client.Http			
	0.36	http.host	localhost						
	1.026	http.method	GET						
		http.path	/api1						
		http.status_code	500						
		http.url	http://localhost:8080/api1						
		mvc.controller.class	BasicErr	orController					
		mvc.controller.method	errorHtr	ml					
		spring.instance_id		erabathini.in.oraclo	.com:Zibkin				

Figure 11: Details of Error

- **NOTE:** If the Lens UI is used in Zipkin, the above Figures are not applicable but are relatable to the Lens UI as well. Traces of the application can be found using Traceld. The Traceld 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).
- 6. Click **Dependencies** tab to get the dependency graph info between micro-services. An example dependency graph is shown in *Figure 12*.



Figure 12: Sample Dependency Graph



2.4.3 Zipkin Issues

2.4.3.1 Application Service is not Registered

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

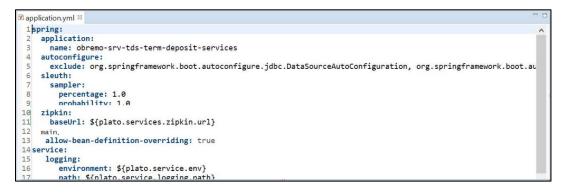
 Check the applications, which are sending the trace report to Zipkin server from Service Name drop-down list.

Figure 13: Find Traces

Service Name Sp	an Name	Lookback		
obremo-srv-bcn-branchcommon 😽	~			
Annotation Query		Duration (µs) >=	Limit	Sort
For example: http.path=/foo/bar/ and clus	ster=foo and cache.miss	Ex: 100ms or 5s		Longest First

2. If the required application is not listed in Zipkins, check the *application.yml* file for Zipkin base URL configuration.

Figure 14: Application.yml File



- **NOTE:** The shipped *application.yml* should have the Zipkin entry. 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.
- 3. The necessary values are as follows:

Compile group: 'org.springframework.cloud'

name: 'spring-cloud-sleuth-zipkin'

version: '2.1.2.RELEASE'

Figure 15: Branch Common Services

	Span Name		Lookback			
	nmon v ali	~				~
Annotation Query			Duration (µs) >=	Limit	Sort	
For example: http.path=/fo	o/bar/ and cluster=foo and cac	he.miss	Ex: 100ms or 5s			~
Find Traces						
						_
Showing: 10 of 10 Services: obremo-srv-bcn-branch						JSON 🚣
Services. Obtend ar ber blanch	common-services					
	common-services					
65.308ms 15 spans						
65.308ms 15 spans bremo-srv-bcn-branchcom	mon-services 97%	services v4 220 829m	alpenno su com dransactio	n-seminer vA 100 A25me	2	minutes add
65.308ms 15 spans bremo-srv-bcn-branchcom		sh-services x4 220.829ms	obremo-srv-cmn-transactio	n-services x4 199.425ms	2	minutes ago
65.308ms 15 spans bremo-srv-bcn-branchcom	mon-services 97%	sh-services x4 220.829ms	obremo-srv-cmn-transactio	n-services x4 199.425ms	2	minutes ago
65.308ms 15 spans bremo-srv-bcn-branchcom remo-srv-bcn-branchcommon-servic	mon-services 97% ees y7 222.651ms obremo-sry-caseas	sh-services x4 220.829m	obremo-srv-cmn-transactio	n-services x4 199425ms	2	minutes ago
65.308ms 15 spans bremo-srv-bcn-branchcom remosry.bon-branchcommonservit 39.977ms 15 spans bremo-srv-bcn-branchcom	mon-services 97% ees y7 222.651ms obremo-sry-caseas					minutes ago minutes ago
65.308ms 15 spans bremo-srv-bcn-branchcom remosry.bon-branchcommonservit 39.977ms 15 spans bremo-srv-bcn-branchcom	mon-services 97% ees y7 222.651ms obremosry case as mon-services 96%					
65.308ms 15 spans bremo-srv-ben-branchcomm remo-srv-ben-branchcommon-servic 39.977ms 15 spans bremo-srv-ben-branchcomm remo-srv-ben-branchcommon-servic 3.021ms 7 spans	mon-services 97% ces x7 222.651ms obremo-sry-cas-cas mon-services 96% ces x7 198.876ms obremo-sry-cas-cas					
65.308ms 15 spans bremo-srv-bcn-branchcom remo-srv-bcn-branchcommonservit 39.977ms 15 spans bremo-srv-bcn-branchcom remo-srv-bcn-branchcommonservit	mon-services 97% ces x7 222.651ms obremo-sry-cas-cas mon-services 96% ces x7 198.876ms obremo-sry-cas-cas					

Figure 16: Branch Common Services Trace

Duration: 265.308ms Services: 3	Depth: 5	Total Spans: 11			ISON 🚣
Expand All Collapse All					
obremo-srv-bcn-branchcommon-services x7 obre	emo-srv-cas-cash-services x4 obrer	no-srv-cmn-transaction-services x4			
rvices	53.062ms	106.123ms	159.185ms	212.246ms	265.3
obremo-srv-bcn-branchce -14.134ms : call-validate					
obremo-srv7bd8rbsangetcor					
obremo-srv-bcn-brase63m <mark>s</mark> : get					
obremo-srv-cas-cash-sen 13.411ms : post /web/v1,	/cash/datasegment/validatecreate				
obremo-srv-cas-cash-service 6.336ms : get					
obremo-srv-cas-cash-serv 222.651ms :	post /web/v1/cash/datasegment/tellert	ransaction/creditcardtxnsubmit			
obremo-srv-cmn-transact	202.330ms : post /submit			100 C	
obremo-srv-cmn-transactic	13.082ms : get				
obremo-srv-cmn-transactic		28.312ms : get			
obremo-srv-bcn-branchco -			47.453ms : post /web/v1/maint	enance/defaultandvalidatefunctiond	etalis -
obremo-srv-bcn-branchcor			- 6.679ms : get		

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	t -Itnu	p grep ':9411'			
output	shou	ld be like:			
tcp6	0	0 :::9411	*	LISTEN	10892/java
Here 1	0892	is the PID.			



2.4.3.3 Unable to Change Zipkin Default Port Number

Zipkin default port number is not editable. Hence, make sure that the port 9411 is available to start *Zipkin-server.jar* file.

2.5 Troubleshooting Logs using ELK Stack

This section describes the troubleshooting procedures using the ELK Stack.

2.5.1 Setting up ELK

Perform the following steps:

- 1. Download the Elastic search from https://www.elastic.co/downloads/elasticsearch.
- 2. Download the Kibana from https://www.elastic.co/downloads/kibana.
- 3. Download the Logstash from https://www.elastic.co/downloads/logstash.

Figure 17: ELK Setup

```
# Kibana is served by a back end server. This setting specifies the port to use.
#server.port: 5601
# 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.
# 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 to `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
```

NOTE: Default port for Elastic search is 9200, and the default port for Kibana: 5601.



2.5.1.1 Steps to run ELK

Perform the following steps:

- 1. Run the *elasticsearch.sh* file present in the folder path /scratch/software/ELK/elasticsearch-6.5.1/bin.
- 2. Configure Kibana to point the running instance of elastic search in *kibana.yml* file.
- 3. Configuration of Logstash consists of the following steps:
 - a) **Input-** This configuration is required to provide the log file location for the Logstash to read from.
 - b) **Filter** Filters in Logstash is basically used to control or format the read operation (Line by line or Bulk read).
 - c) Output- In this section, provide the running elastic search instance to send the data for persisting.

Figure 18: Logstash Configuration

```
nput {
file {
   lie {
   type => "java"
   path => "/scratch/Software/Weblogic_Installation/user_projects/domains//base_domain/logs/obremo-srv-cmn-transaction-services.log"
   codec => multiline {
      pattern => "Transation Ended!"
      negate => "True"
      what => "next"
   }

   }
 }
filter {
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"]
   }
 }
output {
 stdout {
    codec => rubydebug
 3
 # Sending properly parsed log events to elasticsearch
 elasticsearch {
    hosts => ["localhost:9200"]
 }
```



2.5.2 Accessing Kibana

The Kibana can be accessed as shown below:

Figure 19: Kibana

Χ	kibana			StepImpl : Here for function function code 1401 and beanna me is cashDeposit
Ø	Discover	,	January 16th 2020, 10:30:55.582	2020-01-16 05:00:54.533 INFO [obremo-srv-cmm-transaction-services,956c09724035cf27,e3efa9 a0c6e046ea,true] [\${plato.service.env}] [null] [SAJOSH] [000] 26617 [(self-tuning)'] c.netflix.loadbalancer.BaseLoadBalancer : Client: SMS-CORE-SERVICES instantiated a LoadBa
<u>.</u>	Visualize			<pre>lancer: DynamicServerListLoadBalancer:{NFLoadBalancer:name=SMS-CORE-SERVICES,current list of Servers=[],Load balancer stats=Zone stats: {},Server stats: []}ServerList:null</pre>
© 3	Dashboard Timelion	,	January 16th 2020, 10:30:55.582	2020-01-16 05:00:54.852 INFO [obremo-srv-cmm-transaction-services,956c09724035cf27,95 Q C 724035cf27,true] [\${plato.service.env}] [null] [\$A705H] [000] 26617 [(self-tuning)'] o.f.o.s.s.t.d.cash.teller.CashDeposit : inside onSubmit
*	Canvas	,	January 16th 2020, 10:30:55.582	2020-01-16 05:00:54.857 INFO [obremo-srv-cmm-transaction-services,956c09724035cf27,956c09 724035cf27,true] [\${plato.service.env}] [null] [SAJOSH] [000] 26617 [(self-tuning)'] o.f.o.s.srv.transaction.util.common : GenerateEJIdStep ends
9	Machine Learning			
.	Infrastructure	,	January 16th 2020, 10:30:55.582	2020-01-16 05:00:54.874 INFO [obremo-srv-cmm-transaction-services,55c09724035cf27,556c09 724035cf27,true] [\${plato.service.env}] [null] [\$A305H] [000] 26617 [(self-tuning)'] o.f.o.s.srv.transaction.util.common : inside validateRole
E	АРМ	,	January 16th 2020, 10:30:55.582	2020-01-16 05:00:54.647 INFO [obremo-srv-cmm-transaction-services,956c09724035cf27,e3efa9 a0c6e046ea,true] [\$(plato.service.env)] [null] [SAJOSH] [000] 26617 [(self-tuning)']
5	Dev Tools			c.n.l.0ynamicServerListLoadBalancer : DynamicServerListLoadBalancer for client SMS-CO RE-SERVICES initialized: DynamicServerListLoadBalancer:(RHLoadBalancer:Ane-SMS-CORE-SERVIC CES,current list of Servers=[100.101.130.21:7653],Load balancer stats=Zone stats: (default
~	Monitoring			<pre>zone=[Zone:defaultzone; Instance count:1; Active connections count: 0; Circuit br eaker tripped count: 0; Active connections per server: 0.0;]</pre>
3	Management	,	January 16th 2020, 10:30:55.582	2020-01-16 05:00:54.853 INFO [obremo-srv-cmm-transaction-services,956c09724035cf27,956c09 724035cf27,true] [\${plato.service.env}] [null] [\$A05H] [000] 26617 [(self-tuning)']
D	Default			o.f.o.s.s.t.d.cash.teller.CashDeposit : Going to call EJ Creation
1	Collapse	,	January 16th 2020, 10:30:55.582	2020-01-16 05:00:54.874 INFO [obremo-srv-cmn-transaction-services,956c09724035cf27,956c09

2.5.3 Searching for Logs in Kibana

The URL for searching logs in Kibana is <u>https://www.elastic.co/guide/en/kibana/current/search.html</u>.

2.5.4 How to Export Logs for Tickets

Perform the following steps:

- 1. Click **Share** from the top menu bar.
- 2. Select the CSV Reports option.
- 3. Click **Generate CSV** button.



2.6 Troubleshooting Environmental Issues

This section describes the troubleshooting procedures for the environmental issues:

2.6.1 Possible Issues While Deploying Services

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

2.6.1.1 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.

2.6.1.2 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*.

2.6.2 Possible Issues In Login and Screen Launch

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

2.6.2.1 Login page is not launching

If the login page is not launching, check if the *app-shell* and *obbrn-component-serverl* war file are deployed. If it is deployed, make sure that the war file is up and running in the deployed managed server, and login again.

In addition, check if you are logged in with the appshell URL according to the war file deployed. For example, <u>http://<localhost>:<port>/obremo-app-shell-snapshot/</u>. In this URL, the name *app-shell-snapshot* is dynamic, which depends on the name of war file deployed.



Figure 20: Login Page

Sign In
User Name *
Password *
Sign In
Cancel

2.6.2.2 Unable to login after launching the application

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

Figure 21: Services

PLATO-API-GATEWAY	n/a (1) (1)	UP (1) - fsgbu-phx-54.snphxprshared1.gbucdsint02phx.oraclevcn.com:plato-api-gateway:5012
PLATO-DISCOVERY-SERVICE	n/a (1) (1)	UP (1) - fsgbu-phx-54.snphxprshared1.gbucdsint02phx.oraclevcn.com:plato-discovery-service:5012
PLATO-UI-CONFIG-SERVICES	n/a (1) (1)	UP (1) - fsgbu-phx-54.snphxprshared1.gbucdsint02phx.oraclevcn.com:plato-ui-config-services:5012
SMS-CORE-SERVICES	n/a (1) (1)	UP (1) - fsgbu-phx-54.snphxprshared1.gbucdsint02phx.oraclevcn.com:sms-core-services:5012

Before logging in, make sure that the below maintenances are completed:

- In the table *PRODUCT_SERVICES_ENV_LEDGER* from the Plato UI schema, update the Hostname and Port Number, where *plato-api-gateway* services is deployed. If SSL is enabled for the setup, it should be maintained with the SSL URL.
- In the table *SECURITY_CONFIG* from security schema of Oracle Banking Microservices Architecture, make sure that the data is updated as shown in *Figure 22*.



Figure 22: Security Configuration Table

		ID	KEY		VALUE	
	1	185	PASSWORD_ATTRIBUTE		userPassword	•••
	2	167	USER_STORE		LDAP	
	3	168	CORS_ALLOWED_ORGINS	••••	hostname.in.oracle.com	•••
	4	169	LDAP_SERVER_CREDENTIAL_SALT		0.9412345671234567	
	5	170	USER_HEADER_ATTRIBUTE_KEY		userId	•••
	6	171	USER_HEADER_ATTRIBUTE_REQUIRED		Y	•••
	7	172	JWT_EXP_SECONDS		36000000	•••
	8	173	JWT_ALGORITHM		HS512	
	9	174	LDAP_URL		ldap://hostname.in.oracle.com:7001	•••
	10	175	LDAP_SERVER_USER		cn=admin	
2	11	176	LDAP_SERVER_BASE		dc=BRANCH	•••
	12	177	LDAP_SERVER_CREDENTIAL		51kCLASj1Bj0S2GPt0sYMg==	•••
	13	178	LDAP_USER_SEARCH_BASE		ou=people,ou=myrealm	•••
	14	179	LDAP_USER_PREFIX		uid	•••
	15	180	LDAP_PROVIDER		EMBEDDED_WEBLOGIC	•••
	16	181	AUTO_TOKEN_REGENERATE_MODE		true	
	17	182	IS_SSO_CONFIGURED		false	•••
	18	183	REGENERATE_TOKEN_ALWAYS		true	•••

To enable SSL in Oracle Banking Branch, refer to Oracle Banking Branch Installation Guide.

2.6.2.3 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.

2.6.2.4 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.

2.6.2.5 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 and Verifications

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

Figure 23: Health Checks

Application	AMIs	Availability Zones	Status
AMLMAPPING-SERVICES	n/a (1)	(1)	UP (1) - whf00cjs.in.oracle.com:amImapping-services:7003
AMOUNTBLOCK-SERVICES	n/a (1)	(1)	UP (1) - whf00cjs.in.oracle.com:amountblock-services:7003
ANALYSIS-SERVICES	n/a (1)	(1)	UP (1) - whf00cjq.in.oracle.com:analysis-services:7004
APPLICATIONCATEGORY-SERVICES	n/a (1)	(1)	UP (1) - whf00cjp.in.oracle.com:applicationcategory-services:7007
BIDDING-SERVICES	n/a (1)	(1)	UP (1) - whf00cjq.in.oracle.com:bidding-services:7004
CHECKLISTMANAGEMENT-SERVICES	n/a (1)	(1)	UP (1) - whf00cjp.in.oracle.com:checklistmanagement-services:7007
CLMO-BACKOFFICE-SERVICES	n/a (1)	(1)	UP (1) - whf00cjt.in.oracle.com:clmo-backoffice-services:7004
CLMO-BUSINESSPROCESS-SERVICES	n/a (1)	(1)	UP (1) - whf00cjt.in.oracle.com:clmo-businessprocess-services:7004
CLMO-BUSINESSPRODUCT-SERVICES	n/a (1)	(1)	UP (1) - whf00cjt.in.oracle.com:clmo-businessproduct-services:7004
CLMO-HANDOFF-SERVICES	n/a (1)	(1)	UP (1) - whf00cjt.in.oracle.com:clmo-handoff-services:7004
CLMO-LOANAPPLICATION-SERVICES	n/a (1)	(1)	UP (1) - whf00cjt.in.oracle.com:clmo-loanapplication-services:7004
CLMO-LOANCUSTOMER-SERVICES	n/a (1)	(1)	UP (1) - whf00cjt.in.oracle.com:clmo-loancustomer-services:7004
CLMO-MAINTENANCE-SERVICES	n/a (1)	(1)	UP (1) - whf00cjt.in.oracle.com/clmo-maintenance-services:7004
CLMO-ORCHESTRATION-SERVICES	n/a (1)	(1)	UP (1) - whf00cjt.in.oracle.com:clmo-orchestration-services:7004
CLMO-TRANSACTIONCONTROLLER-SERVICES	n/a (1)	(1)	UP (1) - whf00cit in oracle com:clmo-transactioncontroller-services:7004

This topic contains the following sections:

- 3.1 WebLogic
- 3.2 Application Services

3.1 WebLogic

3.1.1 Unable to Login To Weblogic Console

If you are unable to login to weblogic console or the console is down when trying to deploy/re-deploy services, restart the weblogic domain from server. Perform the following steps to restart the weblogic domain:

- 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 using *nohup*, so that it can run in the background. For example, *nohup ./startWebLogic.sh*.



Figure 24: Error Message

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

3.1.2 Unable to Stop a Service

If you are not able to stop a service, which is already running, 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.

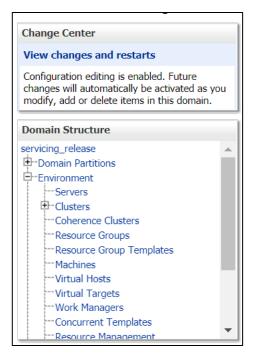
- Heap Dump
- Configuration of environment



For a quick fix, restart the managed server or increase the memory allocated to the managed server. Perform the following steps to increase the memory:

1. Click Servers.

Figure 25: Domain Structure



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

Figure 26: Managed Servers



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

Figure 27: Memory Update

guments: Xmx2048m			



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

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			
servicing_release			
Domain Partitions			
Environment			
Servers			
■ Clusters			
Coherence Clusters			
Resource Groups			
Resource Group Templates			
Machines			
Virtual Hosts			
Virtual Targets			
Work Managers			
Concurrent Templates	_		
Resource Management	*		

2. Click Shutdown.

Figure 29: Control Tab

_						
C	- Configuratio	ion Control				
	Use this page to change the state of the servers in this WebLogic Server domain. Control operations on Managed Servers require starting the Node Manager. Starting Managed Servers in Standby mode requires the domain-wide					
5	52					
	Customize this table Servers (Filtered - More Columns Exist)					
	Start	Resume Suspend - Shutdown - Restart SSL			Showing	
	Se	erver 🙈	Machine	State	Status of Last Action	
1	AD/	APTER	SERVICES	RUNNING	None	

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 '/obremo-srv-cmntransaction-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 Branch are as follows:

Table 2: Application Services

Group	Service List	Required for Servicing	Usage
Oracle Banking Branch	obbrn-srv-biz-businessprocess- services	Y	Used for Process Runtime based screens
Oracle Banking Branch	obremo-srv-adp-adapter- services	Y	Used across all transactions
Oracle Banking Branch	obremo-srv-bcn- branchcommon-services	Y	Used across all transactions and maintenance screens
Oracle Banking Branch	obremo-srv-cas-cash-services	Y	Used for cash, TILL, VAULT and miscellaneous transactions
Oracle Banking Branch	obremo-srv-cmn-ml-processing	Y	Used across transactions that use Machine Learning (ML)
Oracle Banking Branch	obremo-srv-cmn-transaction- services	Y	Used across all transactions, enquiries, batches, Electronic Journal
Oracle Banking Branch	obremo-srv-cmn-utils-services	Y	Used across all transactions
Oracle Banking Branch	obremo-srv-cus-customer- services	Y	Used for Customer Servicing Screens



Group	Service List	Required for Servicing	Usage
Oracle Banking Branch	obremo-srv-ext-common-txn	Y	Used across all transactions
Oracle Banking Branch	obremo-srv-pay-payment- services	Y	Used for remittance transactions
Oracle Banking Branch	obremo-srv-prj-projection- services	Y	Used across all transactions
Oracle Banking Branch	obremo-srv-tds-term-deposit- services	Y	Used for Term Deposit (TD) transactions
Oracle Banking Branch	extended-cluster.war	Required for Italy Cluster	Italy Cluster
Oracle Banking Branch	obremo-batch- futuremavprocess-extended- services-14.0.2.war	Required for Italy Cluster	Italy Cluster
Oracle Banking Branch	obremo-mavbatchprocess- service-5.5.0.war	Required for Italy Cluster	Italy Cluster
Oracle Banking Branch	obremo-cirularchq-service- 5.8.0.war	Required for Italy Cluster	Italy Cluster
Oracle Banking Branch	obremo-mrfpaymenttxn-service- 5.5.0.war	Required for Italy Cluster	Italy Cluster
Oracle Banking Branch	obremo-blockmavnos-service- 14.0.2.war	Required for Italy Cluster	Italy Cluster
Oracle Banking Branch	obremo-mrfparams-service- 5.5.0.war	Required for Italy Cluster	Italy Cluster



Group	Service List	Required for Servicing	Usage
Oracle Banking Branch	obremo-batch-cancelmavbatch- extended-services-14.0.2.war	Required for Italy Cluster	Italy Cluster
Oracle Banking Branch	obremo-endtellerlargedenom- service-14.0.2.war	Required for Italy Cluster	Italy Cluster
Oracle Banking Branch	obremo-statictype-service- 5.8.0.war	Required for Italy Cluster	Italy Cluster
Oracle Banking Branch	obremo-issuemav-extended- services-14.0.2.war	Required for Italy Cluster	Italy Cluster
Oracle Banking Branch	obbrn-component-server- 5.7.0.war	Y	User Interface (UI)
Oracle Banking Microservices Architecture	plato-batch-server	N	
Oracle Banking Microservices Architecture	plato-feed-services	N	
Oracle Banking Microservices Architecture	plato-alerts-management- services	Y	Required for Oracle Banking Microservices Architecture framework
Oracle Banking Microservices Architecture	plato-api-gateway	Y	Required for Oracle Banking Microservices Architecture framework



Group	Service List	Required for Servicing	Usage
Oracle Banking Microservices Architecture	plato-config-service	Y	Required for Oracle Banking Microservices Architecture framework
Oracle Banking Microservices Architecture	plato-discovery-service	Y	Required for Oracle Banking Microservices Architecture framework
Oracle Banking Microservices Architecture	plato-orch-service	Y	Required for Oracle Banking Microservices Architecture framework
Oracle Banking Microservices Architecture	plato-ui-config-services	Y	Required for Oracle Banking Microservices Architecture framework
Security Management System (SMS)	sms-core-services-5.8.0.war	Y	SMS services
SMS	sms-component-server- 5.5.0.war	Y	UI
Common Core (CMC)	cmc-fc-ai-ml-services	Y	Used in ML
СМС	cmc-nlp-dashboard-widget- services	Y	Used in ML
СМС	cmc-nlp-maintenance-services	Y	Used in ML
СМС	cmc-nlp-pipeline-services	Y	Used in ML



Group	Service List	Required for Servicing	Usage
СМС	cmc-nlp-text-extraction-services	Y	Used in ML
СМС	cmc-obrh-service	Y	Used for routing via Oracle Banking Routing Hub
СМС	cmc-report-service	Y	Used for Advices
СМС	cmc-resource-segment- orchestrator-service	Y	Used in screens using GCS like maintenance screens
СМС	cmc-screenclass-services	Y	Used for screen handling
СМС	cmc-settlements-services	Ν	
СМС	cmc-transactioncontroller- services	Y	Used in screens using GCS like maintenance screens
СМС	cmc-txn-code-services	Y	Common Core Services
СМС	cmc-account-services	Y	Common Core Services
СМС	cmc-additional-attributes- services	Y	Common Core Services
СМС	cmc-advice-services	Y	Used for Advices
СМС	cmc-base-services	Y	Common Core Services
СМС	cmc-batch-services	Ν	
СМС	cmc-branch-services	Y	Common Core Services



Group	Service List	Required for Servicing	Usage
СМС	cmc-businessoverrides- services	N	
СМС	cmc-charges-calculation- services	Y	Common Core Services
СМС	cmc-corebanking-adapter- service	N	
СМС	cmc-currency-services	Y	Common Core Services
СМС	cmc-customer-services	Y	Common Core Services
СМС	cmc-datasegment-services	Y	Common Core Services
СМС	cmc-external-chart-account	Y	Common Core Services
СМС	cmc-external-system-services	N	Common Core Services
СМС	cmc-external-virtual-account- services	Y	Virtual account management services
СМС	cmc-facilities-service	N	
СМС	cmc-component-server- 5.8.0.war	Y	UI
СМС	app-shell-5.8.0.war	Y	UI
Mid-office Common Core (MOC)	moc-component-server- 5.7.0.war	Y	UI



Group	Service List	Required for Servicing	Usage
мос	cmc-applicationcategory- services	N	
мос	cmc-checklist-services	N	
мос	cmc-checklistmanagement- services	N	
мос	cmc-comments-services	N	
мос	cmc-document-services	Y	Process Runtime and ML Screens
мос	cmc-documentmanagement- services	Y	Process Runtime and ML Screens
мос	cmc-earmark-services	N	
мос	cmc-kyccheck-services	N	
мос	cmc-mailnotification-services	N	
мос	cmc-priority-service	N	
мос	cmc-processcode-service	Y	Business Process Definition for Process Runtime based screens
мос	cmc-queue-service	N	
МОС	cmc-sequencegenerator- services	N	



4 Troubleshooting Functional Workflows

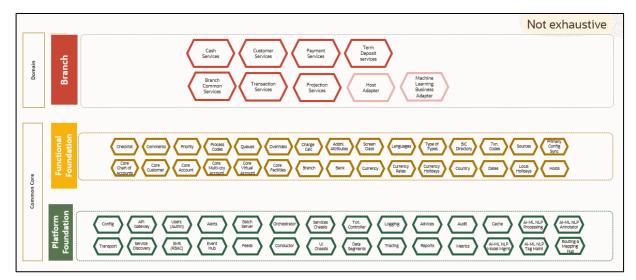
This topic describes the troubleshooting functional workflows applicable to Oracle Banking Branch. It contains the following sections:

- 4.1 Oracle Banking Branch Subdomains
- 4.2 Cash Deposit High Level Flow Diagram
- 4.3 Process Log Table Update
- 4.4 Payment Service Integration Troubleshooting
- 4.5 Oracle Banking Routing Hub configuration
- 4.6 Purging and Archival
- 4.7 Process Runtime Screens Troubleshooting

4.1 Oracle Banking Branch – Subdomains

The subdomains of Oracle Banking Branch are shown below:

Figure 30: Composition of Oracle Banking Branch





4.2 Cash Deposit – High Level Flow Diagram

The high level flow diagrams for Cash Deposit transaction are shown below:

Figure 31: Cash Deposit High Level Flow - 1

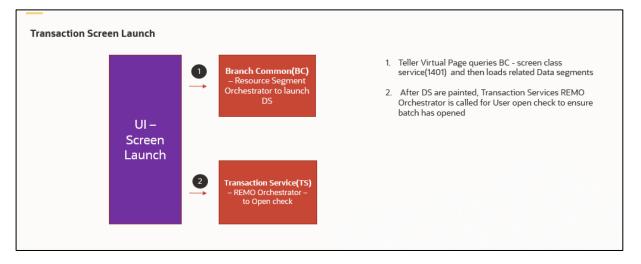
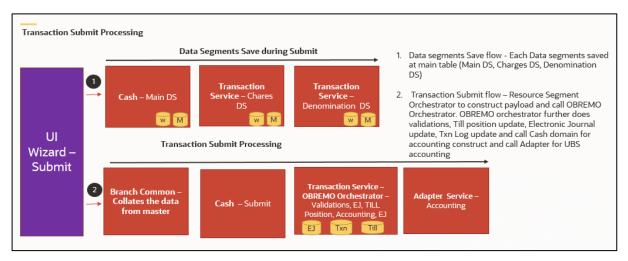


Figure 32: Cash Deposit High Level Flow - 2





4.2.1 First Level Issues

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

4.2.1.1 Calls are not sent properly

If there is any improper calls, check *ERTB_MSGS* table to understand the cause of the error. In addition, you can find displayed error code from the list of existing codes.

Figure 33: Improper Calls

Teller Transaction	() "* ×
Sustomer Search 🚳 🔍 🗵 🛗 Mar 26, 2020	+
Charge Code Charge Currency Orig C1 GBP Page 1 of 1 (1 of 1 items) K	
Denomination	
Bills Coins	
Denom Code Units Value Denom Code Units Value	

4.2.1.2 Null pointer or branch common exception error

If there is null pointer exception or branch common exception error, go to process log table and exception log table, and select the following queries to verify the results.

Query: select * from SRV_TB_PROCESS_LOG order by timestamp desc

Figure 34: TB Process Log

	export.sql			 A PC1+H 	REND 🔒 PLAT	out_dev	A PLATO_DEV	A TRANSACTION_DEV	ASH_DEV	A SM5_DEV	CHINCORE_DE	V & BRANCHCOMMON_DEV	SRV_TB_EXCEPTION_LOG	
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- MCOIFIABLE	Worksheet	Ouery Builder												
BATCH_TYPE		ct 1 from SRV_TB_PR	OCKSS LOG order	by timesta	m desc									
OVD CLASS		1												
PARAM_TYPES														
PARAMS_TO_MATCH														
PARAMS TO COMPARE														
DIRECTION_OF_COMPARISION														
OVERRIDE_AUTH_LEVELS_REQC														
flyway_schema_history														
SRV_T8_AD_O8PAY_TXN_LOG														
SRV_TB_BC_BRANCH_BATCH SRV_TB_BC_EJ_LOG														
SRV_18_BC_EJ_LOG SRV T8 BC EJ LOG HES														
SRV_18_BC_EJ_LOG_RIS														
SRV_T8_BC_TELLER_BATCH														
SRV TB BC TXN LOG HIS														
SRV_TB_BC_VALLT_BATCH														
SRV_TB_CH_TILL_TOT														
SRV_T8_CH_TILL_TOT_DENM														
SRV_TB_CH_TILL_TXN	A													
SRV_TB_CH_TILL_TXN_DENM	Query Res.													
	🛛 📌 📇 सिक्ष ।	🙀 SQL Fetched 50 row	vs in 0.786 seconds											
SRV_TB_EXCEPTION_LOG					A STRUCT METHOD	≜ IN CUT	1 TIMESTAMP		0 DOMAIN		() ACTION	REQ_RES_MSQ		
SRV_TB_PROCESS_LOG	÷ 10													
SRV_TB_PROCESS_LOG SRV_TB_SEQUENCE_NO	() ID	cdee-D357-4dcd-D7cf	-07755710c405		(null)		13-JUL-20 09.	2.37.074000000 PM	obremo-srv-prj-pr	rojection-servi	es (null)	["data":[],"errors":null,	"warnings":null,"informat	ons":null, "author:
SRV_TB_PROCESS_LOG SRV_TB_SEQUENCE_NO SRV_TB_TW_TLR_SSN_BEN_CIF_DT	1 00be	cdee-D357-4dcd-D7cf		null)		OUT								
SRV_TB_PROCESS_LOG SRV_TB_SEQUENCE_NO SRV_TB_TW_TUR_SSN_BEN_CIP_DT SRV_TB_TW_TUR_SSN_DIEC_CIF_D SRV_TB_TX_LARGE_DENM_DS	0 10 1 00be 2 56e5	cdee-0357-44cd-07cf S6fa-270d-4185-ab15	-Sel3922af8al	null)	(null) (null)	OUT OUT	13-JUL-20 09.	2.37.073000000 PM	obremo-srv-prj-pr	rojection-servi	es (null)	{"data":[{"recordId":"3ab	3cdf0-0878-44b4-b3a5-b9a7	d2466df","tellerI
SRV_TB_PROCESS_LOG SRV_TB_SEQUENCE_NO SRV_TB_SEQUENCE_NO SRV_TB_TW_TRR_SSN_ENEC_CF_D SRV_TB_TK_LARCE_DEMM_DS SRV_TB_TK_TELLRP_SESSION	1 00be 2 96e5 3 12a6	cdee-0357-44cd-07cf 556fa-270d-4185-ab15 8fac-67c3-4548-b66b	-Sel3922af8al -384235628c30	null) (null) (null)	(null) (null) (null)	OUT OUT OUT	13-JUL-20 09. 13-JUL-20 09.	2.37.073000000 PM 52.35.309000000 PM	obremo-srv-prj-pr obremo-srv-cmn-tr	rojection-servi ransaction-servi	ces (null)	("data":[{"recordId":"3ak ("data":("configurationMo	3cdf0-0878-44b4-b3a5-b9a7 del":("recordId":"5001","	d2466df","tellerI NunctionCode":"500
SRV_TB_FROCESS_LOG SRV_TB_SEQUENCE_NO SRV_TB_WT_TR_SSN_EEN_CFP_DT SRV_TB_TW_TR_SSN_EEN_CFP_DT SRV_TB_TX_LARGE_DENM_DS SRV_TB_TX_LARGE_DENM_DS SRV_TB_TX_TB_TX_EEN_SESSION SRV_TB_TX_TB_TX_DENV_DS	\$ 10 1 00be 2 96e5 3 12a6 4 008b	ecdee-0357-44cd-07cf 556fa-270d-4185-ab15 58fac-67c3-4548-b66b 5337c-d2e9-40e0-9498	-Sel3922af8al -384235d28c30 -d9a7d7c7b195	null) null) null) null)	(null) (null) (null) (null)	OUT OUT OUT OUT	13-JUL-20 09. 13-JUL-20 09. 13-JUL-20 09.	2.37.073000000 PM 2.35.309000000 PM 89.40.424000000 PM	obremo-srv-prj-pr obremo-srv-cmn-tr obremo-srv-cmn-tr	rojection-servi cansaction-servi cansaction-servi	ces (null) ces (null) ces (null)	("data":[{"recordId":"3ab ("data":("configurationMo ("data":("validAccount":)	ologicatio=0878-44b4-blas5-b5a7 del":("recordId":"5001"," rue,"accountType":"083","	Nd2466df", "teller5 NunctionCode": "500 Nata":[("keyId":"1
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SRV_TB_PROCESS_LOG SRV_TB_SEQUENCE_NO SRV_TB_WT_RB_SON_ERN_CP_DT SRV_TB_TW_TRR_SON_DEC_CP_DT SRV_TB_TX_LARCE_BEM_DS SRV_TB_TX_TRLEND_SESSON SRV_TB_TX_TB_TNN_PRIN_DENM_D SRV_TB_TX_TB_TNN_PRIN_DENM_D	\$ 10 \$	cdee-0357-44cd-07cf 555fa-270d-4105-ab15 58fac-67c3-4548-b66b 337c-d2e9-40e0-9490 17fb4-5c3c-4bb0-9131 53833-efb3-49ca-07b2	-Sel3922af8al -384235428c30 -d9a747c7b195 -faaafa29d301 -6cbeeb0e25ba	null) null) null) null) null) null)	(null) (null) (null) (null) (null) (null)	OUT OUT OUT OUT OUT	13-JUL-20 05. 13-JUL-20 05. 13-JUL-20 05. 13-JUL-20 05. 13-JUL-20 05.	52.37.073000000 PM 52.35.309000000 PM 89.40.424000000 PM 89.20.152000000 PM 89.27.982000000 PM	obremo-srv-prj-pr obremo-srv-rmi-tr obremo-srv-rmi-tr obremo-srv-prj-pr	rojection-servi cansaction-servi rojection-servi rojection-servi rojection-servi	ces (null) ces (null) ces (null) ces (null) ces (null)	("data":[{"recordId":"3ak ("data":("configurationMe ("data":("validkccount":u ("data":[],"errors":null, ("data":[{"recordId":"620	32df0-0878-4444-b3a5-b5a7 del":("recordId":"5001"," :rue,"accountType":"UBS"," "warnings":null,"informat U0cdif-fbad-4e10-90c5-4c3a	Nd2466df","tellerId NunctionCode":"500 Sata":[("keyId":"1 Ions":mull,"author: "7bbab3","tellerId
9 KY_TB_PROCESS_LOG 5 RY_TB_VEX_EN_CEP_DT 5 RY_TB_VTR_SSA_REN_CFP_DT 9 KY_TB_TW_TR_SSA_REN_CFP_DT 9 KY_TB_TV_LARKE_EPHN_DS 9 KY_TB_TV_TARKE_EPHN_DS 5 RY_TB_TV_TA_TNN_PHN_DS 5 RY_TB_TV_TA_TNN_PHN_DS 5 RY_TB_TV_TA_TNN_PHN_DS 8 KY_TB_TV_TA_TNN_PHN_DS 8 KY_TB_TV_TA_SESS_CCY_MAS_TT	() ID	ccdee - 0157 - 44cd - 07cf 556f a - 270d - 4185 - ab 15 58f ac - 67c3 - 4548 - b66b 5337c - d2e9 - 48e0 - 9496 17fb 4 - 5c3c - 4bb0 - 9131 53833 - efb 3 - 48ca - 87b2 sa3d6 - 1902 - 400b - 905a	Se13522af8al 384235428c30 49a747c7b195 faaafa29d301 fcbeeb0e25ba e27109613210	null) null) null) null) null) null) null)	(null) (null) (null) (null) (null) (null) (null)	OUT OUT OUT OUT OUT OUT OUT	13-JUL-20 05. 13-JUL-20 05. 13-JUL-20 05. 13-JUL-20 05. 13-JUL-20 05. 13-JUL-20 05. 13-JUL-20 05.	52.37.07300000 PH 52.35.30900000 PH 19.40.42400000 PH 19.25.15200000 PH 19.27.95200000 PH 19.27.05500000 PH	obremo-srv-prj-pr obremo-srv-rn-ts obremo-srv-rn-ts obremo-srv-prj-pr obremo-srv-cmn-ts	rojection-servi ransaction-servi rojection-servi rojection-servi ransaction-servi ransaction-servi	es (null) ces (null) ces (null) es (null) es (null) ces (null)	("data":[{"record1d":"3ak ("data":["configurationRe ("data":[validAccount":1 ("data":[],"errors":null, ("data":[{"record1d":"620 ("data":["configurationRe	3cdf0-0878-444-b3a5-b9a7 del":("recordId":"5001"," sue,"accountType":"UBS"," "warning=":null,"informat Ucdlf-fbad-4e10-90c5-4c3a del":("recordId":"1401","	<pre>M2466df","tellerId functionCode":"500 Sata":[("keyId":"id ions":null,"author: "Dbab3","tellerId functionCode":"140</pre>
947, TB_PROCESS_LOG 947, TB_SEQUENCE_NO 947, TB_SEQUENCE_NO 947, TB_SEQUENCE_NO 947, TB_THUER_SSNLPEC_CFF_D 947, TB_TL_RARGE_DEMI_DS 947, TB_TL_RARGE_DEMI_DS 947, TB_TL_RARGE_DEMI_DS 947, TB_TL_RARGE_DEMI_DS 947, TB_TL_RARGE_DCY_MAS_T 947, TB_TL_RARGE_CCY_MAS_T 947, TB_TL_RAR_SESS_CCY_MAS_T	3 ED 1 0Ebe 2 5EeS 3 12a6 4 008b 5 de61 6 6305 7 8d5b 8 ESb4	ccdee-0357-44cd-07cf 555fa-270d-4185-ab15 58fac-67c3-4548-b66b 337c-d2e5-4840-9486 17fb4-5c3c-4bb0-9131 53833-efb3-49ca-07b2 3436-1802-40bb-9058 4a46c-1aca-4b56-536b	Sel3522af8al 384235428c30 49a747c7b195 faaafa294301 6cbeeb0e25ba e27105613210 c1081544a201	null) null) null) null) null) null) null) null)	(null) (null) (null) (null) (null) (null) (null) (null) (null)	OUT OUT OUT OUT OUT OUT OUT OUT	13-201-20 09. 13-201-20 09. 13-201-20 09. 13-201-20 09. 13-201-20 09. 13-201-20 09. 13-201-20 09.	52.37.073030000 PH 52.35.309030000 PH 89.40.424030000 PH 89.28.152030000 PH 89.27.982030000 PH 89.27.08503000 PH 89.27.085030000 PH 80.54.575030000 PH	obremo-srv-prj-pr obremo-srv-prj-pr obremo-srv-cmn-tr obremo-srv-prj-pr obremo-srv-prj-pr obremo-srv-cmn-tr	rojection-servi ransaction-servi rojection-servi rojection-servi ransaction-servi rojection-servi rojection-servi	es (nall) ces (nall) ces (nall) es (nall) es (nall) ces (nall) es (nall)	<pre>("data":[{"recordId":"3ak ("data":["configurationMo ("data":["validAccount": ("data":[],"errors":mill, ("data":[{"recordId":"62 ("data":[],"errors":mill,</pre>	<pre>ddf0+0078+44b4-b3a5-b5a7 dd4":("recordfd":"5001"," rute,"accountType":"083"," "warnings":null,"informat Ucdf1+Ebad-4e10-50c5+ac3a dd1"("recordfd":"1401"," "warnings":null,"informat</pre>	M2466df", "tellerId NunctionCode": "5003 Sata": [("keyId": "19 Sons": mull, "authori "7bbab3", "tellerId" NunctionCode": "1403 Sons": mull, "authori
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Query: select * from SRV_TB_EXCEPTION_LOG order by timestamp desc

Figure 35: TB Exception Log

Connections ×/. 🖘		A FC144ITREND	A PLATOUT_DEV	🔒 PLATO_DEV 🛛 🔒 TR	ANSACTION_DEV	ASH_DEV	8 SHS_DEV	CHINCORE_DE	/ 🔒 BRANCH	COMMON_DE	/ 🕴 🖽 SRV_T8	B_EXCEPTION_L	og ×	
- R T V C	🕨 🐷 🐮 🗸 🕹 🕹	📮 🖪 । 🚑 🥔 🚳	44									🗟 TRA	NSACTION_DEV	
KOOPALE K	Worksheet Query Builder			WELAND GEN										
B - SRV_TB_EXCEPTION_LOG SRV_TB_PROCESS_LOG	📌 📇 🥘 🎼 SQL Fe	atched 50 rows in 1.078 r	seconds											
RV_TB_SEQUENCE_NO	0 to		TXN_REF_M	VO EXCEPTIONS				1	RESOURCE_ID 🔅	USER_JD 🕴 🛙	RANCH_CODE	TIMESTAMP		
B-III SRV_TB_TW_TLR_SSN_BEN_CIF_DTLS	1 d698abc2-e427-	42c2-8a96-8ee7446	(51ac0 (null)	oracle.fsgbu.obremo.	.common.srv.exc	ception.BranchE	acceptionat orac	le.fsgb (1011) GU	1910 OO	0 1	13-JUL-20 D5	.50.00.10100	0000 22
B SRV_TB_TW_TLR_SSN_EXEC_CIF_DTLS	2 51cab66f-ec64-	40d9-b42f-39d9890	Ob154 (null)	oracle.fsgbu.obremo.	.common.srv.exc	ception.BranchE	Sceptionat orac	le.fsgb (ull) AF	ASH 00	0 1	13-JUL-20 D9	.48.48.89900	0000 P
B- SRV_TB_TX_LARGE_DEMM_DS	3 24ff0383-81a0-	40da-a596-93b4b36	58154 (mall)	oracle.fsgbu.obremo.	.common.szv.exc	ception.BranchE	Sceptionat orac	le.fsgb (1011) AJ	OO BEA	0 1	13-JUL-20 09	.47.31.00100	0000 ₽
General SRV_T8_TX_TELLER_SESSION General SRV_T8_TX_T1L_TXN_DENM_DS	4 3c7cd0bd-42e9-	4b27-ba10-4d7e4b0	3b16c (null)	oracle.fsgbu.obremo.	.common.srv.exc	ception.BranchE	aceptionat orac	le.fsgb (ull) GU	TRU 00	0 1	13-JUL-20 09	.47.12.17300	.0000 P
B-BSRV_18_1X_1L_XN_DEMP_DS B-BSRV_18_TX_TL_XN_FIGN_DEMP_DS	5 24ee2535-8a24-	4c3c-bc49-e711ade	Oaffe (mull)	oracle.fsgbu.obremo.	. common. srv. exc	ception.BranchE	aceptionat orac	le.fsgb (1011) AJ	OO BEAG	0 1	13-JUL-20 09	47.04.09000	0000 1
B-B SRV 18 TX TIL TXN PX0UT DEWM DS	6 06891965-54t7-	4ael-ae6a-f66673b	4348c (null)	oracle.fsgbu.obremo.	.common.srv.exc	ception.BranchE	eceptionat orac	le.fsgb (1ull) Gt	RU 00	0 1	13-JUL-20 09	. 46.22.26000	0000
B- SRV TB TX TUR SESS CCY MAS TON	7 £4380a80-827£-	4dfb-86b4-e0fd137	ala49 (null)	oracle.fsobu.obremo.	. common. siv. exc	ception.BranchE	eceptionat orac	le.fadb (1011) TA	MUSPEE 00	0 1	13-JUL-20 09	46.03.06600	0000 1
9-1 SRV_TB_TX_TAR_SESS_CCY_TON		4£4£-9004-c722425		oracle.fsgbu.obremo.						NUSPEE 00			.45.41.65300	

NOTE: Process log contains request payload, which will help you to hit service through postman and for getting the response.

Figure 36:	Pr	oces	s Lo	g Res	ponse	es		
Connections				ADAPTER_DEV	RC144ITREND	A PLATOUT_DEV	A PLATO_DEV	atransaction_
		▶ □ %a -	3a (1) (1) (1) (1)	📫 🏕 🔊 Aa 🗆				

Connections	🕘 export.sol 🧧 Wekome Page 👬 ADAPTER_DEV 👌	FC144ITREND 🔠 PLATOL	JI_DEV 🔠 PLATO_DEV 🔠 TRANSACTIO	LDEV 🐘 CASH_DEV 🛛 🚵 SMS_DEV 🛛 🚵 CMIN	CORE_DEV 🔠 BRANCHCOMMON_DEV 🔲 SRV_TB_EXCEPTION_LOG	
🕨 - 🔁 🗶 🚯	🕨 🚽 🕲 🗸 🕲 🔍 🖓 🖓 🖓 🖓 🖓					RANSACTION_DEV
Dracle Connections	Worksheet Ouery Builder					
Accounting	select * from SRV TB PROCESS LOG order by	Lineal and share				
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ADAPTER_DEV						
😑 😥 Tables (Filtered)						
ERTB_MSGS						
Byway_schema_history						
B SRV_TB_AD_CENTRAL_TXN_LOG						
SRV_TB_EXCEPTION_LOG						
SRV_TB_PROCESS_LOG						
B SRV_TM_AD_EXT_AP1_SYS						
B SRV_TM_AD_EXT_SYS						
SRV_TM_AD_DCT_SYS_DEST_DTLS						
PARENT_ID						
DESTINATION						
HOST_SERVER						
URL_VALUE						
BRIDGE_GL						
Mens	AT					
 Indexes Packages 	Query Result ×					
Procedures	📌 📇 🍓 隆 SQL Fetched 50 rows in 0.703 seconds					
B Functions		REF NO II SERVICE METHOD	B IN OUT B TIMESTAMP	0 DOMAIN 0	ACTION REQ.RES_MSQ	
Operators Operators	25 47b8dca2-3ae8-4966-8e08-c7aeafe0430a (null) (null) (00T 13-JUL-20 09.47.26.03600000	PM obremo-srv-cmm-transaction-services (r		:71f5327acb","parentId":"
- IT Queues Tables	26 a934e6d0-5634-4707-010a-af4aeb5ee670 (null) (null) (0UT 13-JUL-20 09.47.26.018000000	PM obzemo-szv-cmm-transaction-services (s	mili) ("data":[("recordId":"c3b53fe4-b0da-4b14-0d06-50	Daa576729cb","parentId":"
n 🛄 Tripgers	27 7742560f-552d-4a21-b710-549845de4e12 (null) (null) (IN 13-JUL-20 09.47.25.970000000	PH obremo-sev-cmm-transaction-services (s	ull) ("datasegment":"fsgbu-ob-remo-srv-ds-charge-deta	ails","tonControllerRefNo
🛪 🚮 Types	28 675cddbc-0429-4aed-959e-f016a8b7e8fe (null) (null) 1	IN 13-JUL-20 09.47.25.968000000	PH obremo-siv-cam-transaction-services ()	ull) ("datasegment":"fsgbu-ob-remo-srv-ds-denominatio	on","tonControllerRefNo":
Generices Materialized Views	29 3eBacebd-0d05-4c03-a009-050d2fdb7c12 (null) (null) (OUT 13-JUL-20 09.47.04.895000000	PH obremo-sev-cmm-transaction-services ()	mil) ("data":null,"errors":[("code":"PM-BC-OB-30","de	escription": "Denomination
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4.2.1.3 Exact error through exception log

If there is an exact error through exception log, log in to WINSCP, and check server logs with NIS credentials. The path can be defined in *-Dplato.service.logging.path* variable in *setEnv.sh*. For example, the path is */scratch/Weblogic/serverlogs*.

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2-07	File folder	7/3/202	applicationName IS UNDEFINED.log	382 KB	7/13/2020 9:56:18 PM	rw-rw-r	sudperu	
6-1-20	File folder	6/11/20	cmc-account-services.log		6/17/2020 12:20:11 AM	rw-rw-r	sudperu	
7-7-20	File folder	7/7/202	cmc-additional-attributes-services.log		7/13/2020 9:56:40 PM	rw-rw-r	sudperu	
8-7	File folder	7/8/202	mc-advice-services.log		7/13/2020 9:58:58 PM	rw-r	sudperu	
9-7	File folder	7/9/202	mc-base-services.log		7/13/2020 10:00:04 PM	DW-DW-F	sudperu	
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11-06-2020	File folder	6/11/20	mc-external-virtual-account-services.log	76 KB	5/20/2020 4:40:13 PM	rw-rw-r	sudperu	
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15-06-2020	File folder	6/16/20	cmc-transactioncontroller-services.log	102,401 KB	7/9/2020 9:47:10 AM	rw-rw-r	sudperu	
18-06-20	File folder	6/18/20	mc-txn-code-services.log		7/13/2020 10:00:35 PM	rw-rw-r	sudperu	
18-06-2020	File folder	6/18/20	fcubs-ext-accounting-services.log	7,429 KB	5/20/2020 4:40:00 PM	rw-rw-r	sudperu	
19-06-2020	File folder	6/19/20	obac-srv-dda-ext-acc-services.log	11,665 KB	4/27/2020 11:14:09 PM	rw-rw-r	sudperu	
22-06-2020	File folder	6/22/20	obremo-rpm-businessprocess-services.log	4,230 KB	5/20/2020 4:40:06 PM	rw-rw-r	sudperu	
23-06-20	File folder	6/23/20	obremo-srv-acc-signature-details-service.log	0 KB	4/30/2020 6:43:50 PM	rw-rw-r	sudperu	
24-6-2020	File folder	6/24/20	obremo-srv-adp-adapter-services.log	3,223 KB	7/13/2020 9:58:36 PM	rw-rw-r	sudperu	
25-06	File folder	6/25/20	obremo-srv-bcn-branchcommon-services.log	9,646 KB	7/13/2020 10:00:04 PM	rw-rw-r	sudperu	
		*	obremo-srv-cas-cash-services.log	769 KB	7/13/2020 9:56:16 PM	rw-rw-r	sudperu	

Figure 37: Exception Error Log

4.2.1.4 Logs are not generated

If you are not getting logs, include debug statements in services and hit through postman, and test again.

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Figure 38: Postman



4.2.1.5 Call is failing in Adapter

If any call is failing in call to Product Processor Gateway, open SRV_TB_AD_CENTRAL_TXN_LOG in Adaptor for getting Gateway response (SUCCESS or FAILED). Select the following query to verify results.

Query: select * from SRV_TB_AD_CENTRAL_TXN_LOG order by REQ_DATE desc

Figure 39: TB AD Central Transaction Log

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4.2.1.6 404 Error

The possible causes for 404 error are as follows:

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

4.2.1.7 500 Internal Error

The possible causes for 500 internal error are as follows:

- Issue with entries of Oracle Banking Microservices Architecture
- Issue with Eureka
- Issue with any peace of code

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



4.2.2 Transaction Data Verification

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

- 1. In the IN request and OUT response, make sure that all the field data is going to service side.
- 2. If there is any error related to SMS, check for the availability of SMS entries.
- 3. Validate the endpoints and data.
- 4. Make sure that the data entered in the screen is accurate. For example, **Account Number** should be valid.

Figure 40: Teller Transaction Screen

Teller Transaction			() "* ×
Customer Search	🛯 🔍 🗶 🛗 Mar 26, 2020		+
Cash Deposit			Current Till Position
Account Number *	Transaction Amount *	No Customer Selected	Alerts X No record to display
Total Charge Amount			Frequent Customer X Operations
Charge Details			Submit Cancel



4.3 Process Log Table Update

This section contains steps to update the process log. To update the process log, select the following query.

Query: select * From properties where upper(key) like upper('%processlog%')

Figure 41: Process Log Table Update

		ID	APPLICATION	PROFILE		LABEL		KEY	V	ALUE	
•	1	777682	obremo-srv-adp-adapter-services	jdbc		jdbc		obremo.processlog.logging.required	. tri	ue	
	2	777683	obremo-srv-bcn-branchcommon-services	jdbc		jdbc	***	obremo.processlog.logging.required	tri	ue	***
	3	777684	obremo-srv-cas-cash-services	jdbc		jdbc		obremo.processlog.logging.required	tru	ue	
	4	777685	obremo-srv-cmn-ml-processing	jdbc		jdbc		obremo.processlog.logging.required	tru	ue	
	5	777681	obremo-srv-cmn-transaction-services	jdbc		jdbc	0.000	obremo.processlog.logging.required	tru	ue	
	6	777686	obremo-srv-cus-customer-services	jdbc		jdbc		obremo.processlog.logging.required	tri	ue	***
	7	777687	obremo-srv-pay-payment-services	jdbc	••••	jdbc		obremo.processlog.logging.required	tru	ue	
	8	777688	obremo-srv-prj-projection-services	jdbc		jdbc		obremo.processlog.logging.required	tru	ue	
	9	777689	obremo-srv-tds-term-deposit-services	jdbc	•••	jdbc		obremo.processlog.logging.required	tri	Je	***
	10	10047	obremo-additionaldetails-services	jdbc	••••	jdbc		obremo.processlog.logging.required	tru	Je	

If the value is false, the process log will not be updated. This is for audit and tracing purpose during error investigation.

4.4 Payment Service Integration Troubleshooting

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

4.4.1 Screen is Not Launching

If the screen is not launching, check the networks logs to verify if *open check* call is failing. The open check URL is <u>https://<host>:<port>/obremo-srv-cmn-transaction-services/obremo-srv-cmn-transaction-services/obremo-srv-cmn-transaction-services/open/1006</u>.

NOTE: Network logs can be viewed by launching browser debugger window (F12) and viewing network tab.

4.4.2 Submit is Failing

If submit is failing, check the network logs and check if *CREATE* call is failing. The CREATE URL is :cport>/obremo-srv-bcn-branchcommon-services/web/orchestrator/submit/CREATE">https://chost>:cport>/obremo-srv-bcn-branchcommon-services/web/orchestrator/submit/CREATE.



4.4.2.1 500 Internal Server Error

The issues in the following services can cause 500 internal server error:

- OBREMO-SRV-BCN-BRANCHCOMMON-SERVICES
- OBREMO-SRV-CMN-TRANSACTION-SERVICES
- OBREMO-SRV-PAY-PAYMENT-SERVICES
- OBREMO-SRV-ADP-ADAPTER-SERVICES

Check the process log table and exception log table from respective schema. Select the following query to verify results.

Query:

select * from SRV_TB_PROCESS_LOG order by timestamp desc; (or)

select * from SRV_TB_PROCESS_LOG where user_id ='user_id' order by timestamp desc;

Figure 42: Process Log Table

Workshe	et Query Builder					
	<pre>select * from SRV_TB_PROCESS_LOG orde</pre>	er by timesta	mp desc			
▲▼ Quer	y Result ×					
* 📇	🔞 🙀 SQL Fetched 50 rows in 2.254 seconds					
	∲ ID	TXN_REF_NO	SERVICE_METHOD	♦ IN_OUT	TIMESTAMP TIMESTAMP	0 DOMAIN
1	79fe4b12-3a1f-4613-8a31-6d9809a1d7ac	(null)	(null)	OUT	20-JUL-20 04.56.34.305000000	PM obremo-srv-bcn-branchcommon
2	31931110-2160-4b38-b2cd-3454f6178a4b	(null)	(null)	OUT	20-JUL-20 04.56.33.567000000	PM obremo-srv-bcn-branchcommon
3	f528c893-5fce-4c6d-8le5-0bb8f5b8e85a	(null)	(null)	OUT	20-JUL-20 04.56.33.532000000	PM obremo-srv-bcn-branchcommon
4	f79a53a4-d5e2-4e42-baaf-0309a010ccc0	(null)	(null)	OUT	20-JUL-20 04.56.32.849000000	PM obremo-srv-bcn-branchcommon
5	54deadde-b787-4492-88d4-e62f1fd2bdf1	(null)	(null)	OUT	20-JUL-20 04.55.59.423000000	PM obremo-srv-bcn-branchcommon
6	491695cl-e564-4ff3-afd3-823188cbcc02	(null)	(null)	OUT	20-JUL-20 04.55.58.551000000	PM obremo-srv-bcn-branchcommon
7	9bd21175-702b-4f31-a96a-27f039afab17	(null)	(null)	OUT	20-JUL-20 04.55.58.512000000	PM obremo-srv-bcn-branchcommon
8	abcf96f6-9e6f-4108-a44a-e3090dab275a	(null)	(null)	OUT	20-JUL-20 04.55.57.750000000	PM obremo-srv-bcn-branchcommon
9	b619f07f-4ad7-4dbd-b15c-2fc00a152154	(null)	(null)	OUT	20-JUL-20 04.54.06.082000000	PM obremo-srv-bcn-branchcommon
10	70e6705f-lcf3-4582-94f2-3ba6d0f60293	(null)	(null)	OUT	20-JUL-20 04.54.01.879000000	PM obremo-srv-bcn-branchcommon
11	f6eeb54a-4db2-4073-aldb-3768c8f574bd	(null)	(null)	IN	20-JUL-20 04.54.01.847000000	PM obremo-srv-bcn-branchcommon
12	271d20fc-9cc2-49d2-acd1-80a87ce4bb9f	(null)	(null)	IN	20-JUL-20 04.54.01.567000000	PM obremo-srv-bcn-branchcommon



Query:

select * from SRV_TB_EXCEPTION_LOG order by timestamp desc; (or)

select * from SRV_TB_EXCEPTION_LOG where user_id ='user_id' order by timestamp desc;

Figure 43: Exception Log Table

Workshe	et Query Builder			
	<pre>select * from SRV_TB_EXCEPTION_LOG or</pre>	der by times	stamp desc	
▲▼ >Quer	y Result X			
* 🛓	Rev SQL Fetched 50 rows in 3.254 seconds			
	() ID	TXN_REF_NO	EXCEPTIONS	RESOU
1	2f90dd90-f393-4af8-b8e9-4a7190bbccd2	(null)	oracle.fsgbu.obremo.common.srv.exception.BranchExceptionat oracle.fsgbu	(null)
2	409d4d30-0cfa-429f-9d5b-0eb740a60393	(null)	oracle.fsgbu.obremo.common.srv.exception.BranchExceptionat oracle.fsgbu	(null)
3	8dc706dc-4e0f-43e6-9c5e-e65189d78658	(null)	oracle.fsgbu.obremo.common.srv.exception.BranchExceptionat oracle.fsgbu	(null)
4	b6ad220d-6d10-4a6a-85c5-999673a0eac4	(null)	oracle.fsgbu.obremo.common.srv.exception.BranchExceptionat oracle.fsgbu	(null)
5	6ae26743-788c-4ef5-a367-c14ee76649c0	(null)	oracle.fsgbu.obremo.common.srv.exception.BranchExceptionat oracle.fsgbu	(null)
6	3b6ee2f3-716e-4be2-ad0e-6a635be5ad6f	(null)	org.springframework.web.util.NestedServletException: Handler dispatch fa	(null)
7	2074f230-93c8-4799-a406-05841f9e20e8	(null)	org.springframework.web.util.NestedServletException: Handler dispatch fa	(null)
8	3851e50a-a518-40d6-b724-a24256aa6e28	(null)	org.springframework.web.util.NestedServletException: Handler dispatch fa	(null)
9	88ce6381-431f-43e4-90d9-c2e313faa8a2	(null)	org.springframework.web.util.NestedServletException: Handler dispatch fa	(null)
10	e7239ced-343e-4c93-bb49-7bf6dcb00b0f	(null)	oracle.fsgbu.obremo.common.srv.exception.BranchExceptionat oracle.fsgbu	(null)
11	f58d25c1-51f7-4b61-b4cc-a50ad27ff8c3	(null)	oracle.fsgbu.obremo.common.srv.exception.BranchExceptionat oracle.fsgbu	(null)

4.4.3 Accounting Call to FLEXCUBE Universal Banking is Failing

If accounting call to FLEXCUBE Universal Banking is failing, check the

SRV_TB_AD_CENTRAL_TXN_LOG in ADAPTER-SERVICES schema for getting Gateway response (**SUCCESS** or **FAILURE**). Select the following query to verify results.

Query: select * from SRV_TB_AD_CENTRAL_TXN_LOG where txn_ref_no='000201334747';

Figure 44: AD Central Transaction Log Table

Workshe	et Query Builder							
	Select * from SRV_TB_AD_CENTRAL_TXN_L	OG where the	n_ref_no='0002	01334747'				
								4
Quer	y Result ×							
📌 📇	🔞 🙀 SQL All Rows Fetched: 1 in 0.594 secon	ds						
	∲ ID	<pre> PARENT_ID </pre>	EJ_VERSION_NO	TXN_REF_NO	TXN_STATUS	REQ_DATE	INC_REQ_MSQ	
1	2d5b9c77-86d3-43f7-9e38-fb02668fdd8e	(null)	(null)	000201334747	SUCCESS	12-MAY-20 09.31.40.506000000 P	M { "txnDet"	: ^

4.4.4 Oracle Banking Payments Call is Failing

If Oracle Banking Payments call is failing, check the *SRV_TB_AD_CENTRAL_TXN_LOG* and *SRV_TB_AD_OBPAY_TXN_LOG* in ADAPTER-SERVICES schema for getting Gateway response (**SUCCESS** or **FAILURE**). Select the following query to verify results.



Query: select * from SRV_TB_AD_OBPAY_TXN_LOG where txn_ref_no='000201334747';

Figure 45: Oracle Banking Payments Transaction Log Table

Worksheet Query Builder							
<pre>Select * from SRV_TB_AD_OBPAY_TXN_LOG</pre>	where txn	_ref_no='000201	334747'				Î,
Query Result ×							
📌 📇 🙀 🙀 SQL All Rows Fetched: 1 in 0.312 secon	ds						
⊕ ID	<pre> PARENT_ID </pre>	EJ_VERSION_NO	TXN_REF_NO	TXN_STATUS	REQ_DATE	INC_REQ_MSQ	
1 da2f7205-74be-4f63-8306-d611e6e06ce7	(null)	(null)	000201334747	SUCCESS	12-MAY-20 09.31.31.134000000 PM	{ "txnDet"	:^

4.4.5 Error During Transaction Submission

If any error occurred while submitting the transaction from **Teller Transaction** screen, check the error code and the error message. Error code will be available in ERTB_MSGS. Select the following query to verify results.

Query: select * from ERTB_MSGS where err_code='RM-BC-PM-01';

Figure 46: ERTB Messages

Worksheet Query Builder							
Select * from ERTB_MSGS where err_code='RM-TX-FM-01';							
Query Result X							
	TYPE	CONFIRMATION_REQD	FUNCTION_ID	MAX_SUB_PARAM	MODIFIABLE	BATCH_TYPE	4
1 RM-TX-PM-01 ENG OBPay Transaction Status Failure F	E	N	COMMON		0 N	I	

4.4.6 Error RM-TX-PM-01

This error may occur while submitting the transaction from **Teller Transaction** screen.

Account Transfer		Customer Information	Current Till Position
Transaction Account Number *	Transaction Account Name		Alerts X
Cheque Date Cheque 2020 Credit Account Name	Cred RM-TX-PM-01: OBPay Transaction S	tatus Failure	A Frequent Customer Operations
Exchange Rate	Total Charges(LCY)	No Signature data to display	Cash Deposit Cash Withdrawal
Narrative * Account Transfer		Account Number Account Branch	Cheque Withdrawal

Figure 47: RM-TX-PM-01 Error



To resolve this error, validate the *SRV_TB_AD_OBPAY_TXN_LOG* in ADAPTER-SERVICES schema. If the transaction status is not **PENDING** or **FAILURE**, it can cause this error. Select the following query to verify results:

Query: select * from SRV_TB_AD_OBPAY_TXN_LOG where txn_ref_no='0002008600008737';

Figure 48: Oracle Banking Payments Transaction Log Table

ا الجي الحي الحي الحي الحي الحي الحي الحي الح	ADAPTER_12c	•
Worksheet Query Builder		
Select * from SRV_TB_AD_OBPAY_TXN_LOG where txn_ref_no='0002008600008737'		
Query Result ×		
📌 📇 🔞 🙀 sql All Rows Fetched: 1 in 0.454 seconds		
TXN_REF_NO		
1)002008600008737 PENDING 20-JUL-20 04.44.12.092000000 PM { "txnDet" : { "txnBranch" : "000", "bo	ookDate" : "", "host	···· ^

4.5 Oracle Banking Routing Hub configuration

To configure Oracle Banking Routing Hub, specify the

srv_tm_bc_function_indicator.IS_ROUTING_ENABLED value as **Y**. This will ensure all the calls are wired through the Oracle Banking Routing Hub Micro service. Below table contains the factory-shipped data for producer and consumer combination of integrations made through Oracle Banking Routing Hub.

SRV_TM_BC_FUNCTION_INDICATOR_ROUTE_DTLS

4.6 Purging and Archival

For Oracle Banking Branch, purge days is maintained for each branch in the table *SRV_TB_BC_ARCHIVAL*. As a part of Branch Batch closure (happens every day), the program purges the following tables to history tables:

- SRV_TB_BC_EJ_LOG
- SRV_TB_BC_TXN_LOG



4.7 Process Runtime Screens Troubleshooting

The section describes the possible issues that may occur in the Process Runtime flow screens. The Process Runtime flow screens are as follows:

- Customer Address Update
- Customer Contact Details Update
- Account Address Update

4.7.1 Possible Issues in Process Runtime Flow Screens

This subsection describes the possible issues that may occur in Process Runtime flow screens.

4.7.1.1 Screen is not launching

If the screen is not launching, go to network logs and check if *initiate* call is failing. If it is failing, see the displayed error code. The causes and fixes for the possible error codes are described below:

4.7.1.1.1 Error code 404

If the error code is 404, the entry */obremo-srv-cus-customer-services/web/v1/initiate* may be missing in product services ledger table.

4.7.1.1.2 Error code 504

If the error code is 504, the *plato-orch-service* may be down or responding very late. Restart *plato-orch-service* to fix this error.

4.7.1.1.3 Error code 400

If the business process data is not posted properly or altered by a user, it may be causing this error. Check the business process data through the postman or through the UI if menu is configuration menu is enabled. The business process data can be verified through the Postman validation as follows:

Endpoint URL: <u>/obbrn-srv-biz-businessprocess-</u> services/businessprocess?businessProductCode=ALL&lifeCycleCode=AauSav

Life cycle code: CcuSav/AauSav/CauSav



Table 3: Applicable Headers

Header	Value
userld	ADMINUSER
branchCode	000
appld	BIZPRC
authToken	Υ
Content-Type	application/json
Accept	application/json
Method	GET

Perform the following steps to open and verify the business process data through the User Interface (UI):

- 1. Specify User ID and Password, and login to Oracle Banking Branch Home screen.
 - \rightarrow The Oracle Banking Branch **Home screen** displays.

Figure 49: Home Screen

Deshboard					Ê	Constant (1) 👔 🏦 Topologi (1994) (1994) 🏨
Care Milmosance	Arrest Operations	Customer Service Request Party Par	Frequent Banch Operation	Current Till Postion T	Alerts	Invertery In Illad Invertery In Illad NUTURE 000 Between Oregon Dement Divelt 236 31
Real Loving TI Cash Peable Search Amagement TI Cash Peable Texts Comp Educe Comp Comp Educe Comp Comp Educe Comp	000 Mer 26, 2020	Cell Cost Della Cost errindom	My fransaction Status Incluse 000 Mar 26,2020 Can APPROVAL 6 9		Cutaner Saven X.Q	Froguent Links = References Rates FRR Fortal NIMC Verification
digital push TD Rates in	NUTIONS general stepse for means for 2.61% Officers second months (MSE)					

2. From Home screen, click Retail Banking, and then click Configurations.



- 3. Under Configurations, click Business Process.
- 4. Under Business Process, click View Business Process.
 - \rightarrow List of business process tiles are displayed.

Figure 50: Endpoint Entries

Business Process Code:	Business Process Code:	Business Process Code:	Business Process Code:	Business Process Code:	
Description:	Description: Constitution Institution Life Cycle: Constitution Institution Processe: Conflore Institution Business Product:	Description: Const Dr. Officer La Life Cycle: Const Checutor SL Process: Const Checutor SL Business Product:	Description: See Sup Withdricus Life Cycle: See Sup Withdricus Process: See Sup Withdricus Business Product:	Description: Pape of Penn Life Cycle: Copy of Penn Process: COCMONDM Business Product:	
Authorized 🔒 Open	🕞 Unsuthorized 🔒 Open	Authorized 🔒 Open	Authorized 🔒 Open	💫 Authorized 🔒 Open	
Business Process Code: Huddrenne Uppfalte	Business Process Code: :	Business Process Code:	Business Process Code:		
Description: Contacter Life Cycle: Contacter Process: Contacter Business Product:	Description: Conty St Life Cycle: Conty St Process: Context Advice Advice Business Product:	Description: Control Account Life Cycle: Control Account Life Cycle: Control Account Life Cycle: Cyc	Description: Conclusion to test the United Cycle: Conservation the Cycle: Conservation the Cycle: Conservation to Cycle and the Cycle and Cycle an		
Authorized 🔒 Open	Authorized 🔒 Open	Authorized 🔒 Open	Authorized 🔒 Open		

- 5. Click CAU/CCU/AAU.
- 6. Verify the business process data.

4.7.1.2 First Stage Submit is Failing

This error may be caused due to the issue/failure with get stage summary in the previous call before submit (when you click **Next**). To resolve this error, validate the get summary call failure.

4.7.1.3 Free Tasks screen is not launching

Make sure that the endpoints entries in product service ledger are correct. The endpoints entries as shown below:

Figure 51: Endpoint Entries

ID 🕴	PROD 7	ENDPOINT_KEY	0 ENDPOINT_VALUE	REQUEST_TYPE	SERVICE_NAME
462 C	ORE	REASSIGN USERS	/api/v1/extn/users/subordinates?action=SUPERVISOR	GET	plato-orch-service
110 C	ORE	RELEASE TASK	/api/v1/extn/tasks	PUT	plato-orch-service
105 C	ORE	TASK SEARCH	/api/v1/extn/custom-actions/queries/tasks	POST	plato-orch-service
106C	ORE	ACQUIRE TASK	/api/v1/extn/tasks	PUT	plato-orch-service
8822 C	ORE	TASK QUEUE	/api/v1/extn/tasks?type={dashboardQueueName}	GET	plato-orch-service

4.7.1.4 Transaction is not listed in Free Tasks/Unable to see major fields

If the submitted transaction is not listed in the **Free Tasks** or if you are unable to see created transaction major fields (**Reference Number**, **Application Number**, etc.) in **Free Tasks** screen table, validate the posted workflow definition to process Runtimeserver with the help of postman. Do the validation as follows:

Endpoint URL: http://chosts:conts/plato-orch-service/api/metadata/workflow/AauSav



Table 4: Applicable Headers

Header	Value
userld	ADMINUSER
branchCode	000
appld	platoorch
authToken	Y
Content-Type	application/json
Accept	application/json
Method	GET

4.7.1.5 Getting validation errors on second stage submit

These errors may be caused by the FLEXCUBE Universal Banking system validation errors, such as name is missing, X field cannot be modified. In such cases, verify that the data you have submitted for modification and the customer/account has all required information.

4.7.2 Additional Details

The workflow definitions are stored in the META_WORKFLOW_DEF of platoOrch schema. The business process is stored in the 24 different tables of rpm schema. Currently, the Teller transactions' business process data persisted in the eight tables out of 24 tables. The business process does not have data related to the checklist, documents, advice list, and clauses list.

The tables are as follows:

- RPM_TM_BUSINESS_PROCESS, RPM_TW_BUSINESS_PROCESS
- RPM_TM_BP_STAGE, RPM_TW_BP_STAGE
- RPM_TM_BP_STAGE_DSCC, RPM_TW_BP_STAGE_DSCC
- RPM_TM_BP_STAGE_DSCC_PC, RPM_TW_BP_STAGE_DSCC_PC

4.8 EOD Configuration

You need to create the EOD workflow and related terminologies for the EOD function to work. It is assumed that the set-up and configuration of **plato-batch-server** and **plato-orchestration** services are completed.

Topics:

- Create EOD Workflow
- Configure EOD Batch
- Run EOD Batch

4.8.1 Create EOD Workflow

You can create the EOD workflow through the Workflow Maintenance screen.

Prerequisites:

Log in to the application homepage. For information on how to log in, refer to the *Getting Started User Guide*.

To create the EOD workflow:

1. Create a JSON with the batch job definition. (*eodWorkflow.json* is the JSON used for date change).



- 2. Upload a sample batch script as follows:
 - a. On the Homepage, click **Tasks**. Under **Tasks**, click **Business Process Maintenance** to import, create or modify batch process definition.
 - → The Workflow Maintenance screen is displayed.

Figure 52: Workflow Maintenance

Workflow Maintainenace				() "* ×
Process List	Process List			Screen (1 / 3)
Process Management Verify & Submit	Search: Search Workflow			
	Process Name: blank	Version: blank	Upload DSL +	
	Process Name: TCSALE	Version: 2	Process Description: Travelers Cheque Sale	
	Process Name: eodDateFlipbatch	Version: 1	Process Description: eodDateFlipbatch	
	Process Name: eodDateChangebatch	Version: 2	Process Description: eodDateChangebatch	
	Process Name: AauSav	Version: 1	Process Description: Account Address Update Workflow	
	Process Name: CauSav	Version: 1	Process Description: Customer Address Update Workflow	
	Process Name: CcuSav	Version: 1	Process Description: customer Contact Update Workflow	
	Process Name: MMACCL	Version: 1	Process Description: Multimode Account Closure	
	Process Name: TCPURC	Version: 1	Process Description: Travelers Cheque Purchase	
	Process Name: TCSALE	Version: 1	Process Description: Travelers Cheque Sale	
	Process Name: myfirsteodbatch	Version: 1	Process Description: myfirsteodbatch	
	Process Name: myeodbatch	Version: 1	Process Description: myeodbatch	
	Process Name: myeodbatch	Version: 2	Process Description: myeodbatch	
			Back Ne	nt Cancel

- b. Click Upload DSL +.
- c. Choose file *eodDateFlipbatch.json* from the local folder.
- d. Click Next.

NOTE: If required, you can also click **Create Stage** to create a new stage.

e. Click Create Process to create the process and close the screen.

4.8.2 Configure EOD Batch

You can configure the EOD batch through the **Configure EOD** screen.

Prerequisites:

Log in to the application homepage. For information on how to log in, refer to the *Getting Started User Guide*.



To configure the EOD batch:

- 1. On the Homepage, click **Core Maintenance**. Under **Core Maintenance**, click **Branch EOD**, and then select **Configure EOD**.
 - \rightarrow The **Configure EOD** screen is displayed.

Figure 53: Configure EOD

Configure EOD			
Branch Code *	Q	Description	Workflow Name *
			Save Cancel

2. On the **Configure EOD** screen, specify the fields. For more information on fields, refer to the field description table.

NOTE: The fields, which are marked with an asterisk, are mandatory.

Table 5: Configure EOD - Field Description

Field	Description
Branch Code	Select branch code to link with the batch process definition.
Description	Displays the description of the selected branch code.



Field	Description
Workflow Name	Specify the workflow name (<i>eodDateFlipbatch</i>) as mentioned in the first line of <i>eodDateFlipbatch.json</i> .
	NOTE: The workflow name should be the same as the value for the <i>name</i> tag in the JSON file. A sample workflow name from a JSON file is shown in the below figure.

Figure 54: Sample Workflow Name

R	
"name	": "eodDateFlipbatch",
"desc	ription": "This is my first EOD batch",
"task	s": [
{	
	"name": "EOD.DATEFLIP",
	"taskReferenceName": "EOD.DATEFLIP",
	"inputParameters": {
	"http request": (
	"connectionTimeOut": "0",
	"readTimeOut": "0",
	"vipAddress": "CMC-BRANCH-SERVICES",
	"uri": "/cmc-branch-services/batch/flipdate?eodBranch=\${workflow.input.branchCode}",
	"method": "POST",
	"headers": {

3. Save and authorize the record.

4.8.3 Run EOD Batch

You can run the batch for a branch through the Invoke EOD screen.

Prerequisites:

Log in to the application homepage. For information on how to log in, refer to the *Getting Started User Guide*.



To run the EOD batch:

- 1. On the Homepage, click **Core Maintenance**. Under **Core Maintenance**, click **Branch EOD**, and then select **Invoke EOD**.
 - \rightarrow The **Invoke EOD** screen is displayed.

Figure 55: Invoke EOD

Invoke EOD			,* ×
Branch Code * Q. Start Retry Reset	Description	Current Branch Date	
View End of Cycle Processes	Auto Refresh(15s)		
	EOD.DATERIP		

2. On the **Invoke EOD** screen, click the search icon and select the **Branch Code**. For more information on fields, refer to the *Oracle Banking Common Core User Guide*.

NOTE: The fields, which are marked with an asterisk, are mandatory.

- 3. Click **Start** to start end of day batch.
- 4. Click **Refresh** to view the current status of the batch.



4.9 Troubleshooting Projection Schema Failure

You can troubleshoot the failure of the projection service by updating the flyway scripts in the database. The projection service war may fail while deployment with the following error message:

org.flywaydb.core.api.FlywayException: Validate failed: Migration checksum mismatch for migration version 507.108.5.1.0.14.507108014.1.0 -> Applied to database : 107501546 -> Resolved locally : -643401112 Detected failed migration to version 101.32.7.3.0.1.00101001001.3.1 (ERTB MSGS) :org.flywaydb.core.api.FlywayException:Validate failed: Migration checksum mismatch for migration version 507.108.5.1.0.14.507108014.1.0 -> Applied to database : 107501546 -> Resolved locally : -643401112 Detected failed migration to version 101.32.7.3.0.1.00101001001.3.1 (ERTB MSGS)

To resolve this error, perform the following steps:

- 1. Connect to the projection schema in the database.
- 2. Run the following script in the projection schema: update "flyway_schema_history" set "checksum" = '-643401112' where "script" = 'V507_108_5.1.0_14_507108014_1_0__ERTB_MSGS.sql'; delete from "flyway_schema_history" where "success" = 0; ALTER TABLE ERTB MSGS MODIFY ERR CODE VARCHAR2(15);

NOTE: The value of the checksum in this script should match with the value in the error message.



5 Error Codes

This section list the possible error codes that you might receive while using the application.

Table 6: Error Codes

Error code	Description	Type [E-Error, W-Warning, I-Information]
CLMO-AC-003	Source stage value should be either Y/N not valid	E
CLMO-AC-017	DatasegmentCode not valid	E
CLMO-AC-018	DocumentType Code not valid	E
CLMO-AC-020	Life cycle not valid	E
CLMO-AC-023	Unable to \$1 Business Process as \$2 data segment has the following dependencies \$3 in lifecycle \$4 ,which have not been mapped prior to it!	E
CLMO-AC-024	Unable to \$1 Business Process as the mandatory data segments \$2 for the \$3 lifecycle have not been mapped!	E
CLMO-AC-026	In \$1 stage of \$2 Business Process, duplicate data segements - \$3 are not allowed	E
CLMO-AC-027	Record already exist with same Lifecycle and Business Product	E
CLMO-AC-028	At \$1 in \$2 stage of \$3 Business Process,duplicate record for - \$4 exist	E
CLMO-AC-029	At \$1 in \$2 stage of \$3 Business Process,Business Product List is invalid.	E
CLMO-AC-030	Business Product Code is Invalid	E



Error code	Description	Type [E-Error, W-Warning, I-Information]
GCS-AUTH-01	Record Successfully Authorized	I
GCS-AUTH-02	Valid modifications for approval were not sent. Failed to match	E
GCS-AUTH-03	Maker cannot authorize	E
GCS-AUTH-04	No valid unauthorized modifications found for approval.	E
GCS-CLOS-002	Record Successfully Closed	I
GCS-CLOS-01	Record Already Closed	E
GCS-CLOS-02	Record Successfully Closed	I
GCS-CLOS-03	Unauthorized record cannot be closed, it can be deleted before first authorization	E
GCS-COM-001	Record does not exist	E
GCS-COM-002	Invalid version sent, operation can be performed only on latest version	E
GCS-COM-003	Please Send Proper ModNo	E
GCS-COM-004	Please send makerId in the request	E
GCS-COM-005	Request is Null. Please Resend with Proper Values	E
GCS-COM-006	Unable to parse JSON	E
GCS-COM-007	Request Successfully Processed	I



Error code	Description	Type [E-Error, W-Warning, I-Information]
GCS-COM-008	Modifications should be consecutive.	E
GCS-COM-009	Resource ID cannot be blank or "null".	E
GCS-COM-010	You have successfully cancelled \$1.	I
GCS-COM-011	Argghhh, \$1 failed to update.	E
GCS-DEL-001	Record deleted successfully	I
GCS-DEL-002	Record(s) deleted successfully	I
GCS-DEL-003	Modifications didnt match valid unauthorized modifications that can be deleted for this record	E
GCS-DEL-004	Send all unauthorized modifications to be deleted for record that is not authorized even once.	E
GCS-DEL-005	Only Maker of first version of record can delete modifications of record that is not once authorized.	E
GCS-DEL-006	No valid unauthorized modifications found for deleting	E
GCS-DEL-007	Failed to delete. Only maker of the modification(s) can delete.	E
GCS-MOD-001	Closed Record cannot be modified	E
GCS-MOD-002	Record Successfully Modified	I
GCS-MOD-003	Record marked for close, cannot modify.	E



Error code	Description	Type [E-Error, W-Warning, I-Information]
GCS-MOD-004	Only maker of the record can modify before once auth	E
GCS-MOD-005	Not amendable field, cannot modify	E
GCS-MOD-006	Natural Key cannot be modified	E
GCS-MOD-007	Psssttt, only the maker can modify the pending records.	E
GCS-OPEN-01	Teller Batch Record Already Opened	E
GCS-OPEN-01	Record Already Opened	E
GCS-REOP- 003	Successfully Reopened	I
GCS-REOP- 004	Unauthorized record cannot be reopened, record should be closed and authorized	E
GCS-REOP-01	Unauthorized Record cannot be Reopened	E
GCS-REOP-02	Failed to Reopen the Record, cannot reopen Open records	E
GCS-REOP-03	Successfully Reopened	I
GCS-SAV-001	Record already exists	E
GCS-SAV-002	Record Saved Successfully.	I
GCS-SAV-003	Congratulations!! The record is saved and validated successfully.	I
GCS-SAV-004	Currency Code should be unique	E



Error code	Description	Type [E-Error, W-Warning, I-Information]
GCS-SAV-005	Min cash holding should be lesser than Max cash holding	E
GCS-VAL-001	Congratulations!! Your record is successfully validated.	I
ML-TS-001	Invalid Data Source	E
ML-TS-002	Invalid datatype for case ID	E
ML-TS-003	Timeseries Model Training Failed	E
RM-AD-EC-01	Failed in ECA	E
RM-AD-HH-01	Failed in Host Handoff	E
RM-AD-PM-03	Failed in payment	E
RM-AD-UB-01	Failed in DDA system	E
RM-AD-VM-01	Invalid Account Number	E
RM-AD-VM-02	VAM Service is down	E
RM-BC-AC-01	Failed in Accounting	E
RM-BC-BP-01	Please Enter the entire Branch Parameter Detail values	Е
RM-BC-CH-01	Minimum Charge Greeater Than Maximum Charge	E
RM-BC-CH-02	Please Enter the proper charge code	E



Error code	Description	Type [E-Error, W-Warning, I-Information]
RM-BC-CH-03	Charge Fields Cannot be empty	E
RM-BC-CH-04	Please Enter Mininmum and Maximum Charges	E
RM-BC-CP-03	Function code should not be empty	W
RM-BC-EJ-01	Record Not Found	Е
RM-BC-EJ-02	Record Updation Failed	E
RM-BC-EJ-02	Failed to Update the Record	E
RM-BC-EJ-02	Failed in Updating Record	E
RM-BC-EX-01	Unhandled Exception Occured	E
RM-BC-EX-02	Transaction Timed Out	E
RM-BC-EX-03	Unhandled Exception Occured	E
RM-BC-ML-01	Email Account not Valid	E
RM-BC-OB-01	Branch batch is already open for the current date	E
RM-BC-OB-02	Branch batch can be opened only by supervisor	E
RM-BC-OB-03	Vault batch is open for the current or previous date	E
RM-BC-OB-04	User does not have rights to access this screen	E



Error code	Description	Type [E-Error, W-Warning, I-Information]
RM-BC-OB-04	User do not have rights to access this screen	E
RM-BC-OB-05	Teller batch is open for the current or previous date	E
RM-BC-OB-06	Please complete the pending transactions in the Electronic Journal log	E
RM-BC-OB-07	Branch batch is not opened	E
RM-BC-OB-08	Please close the previous day batch	E
RM-BC-OB-10	Teller batches should be closed before closing the branch/vault batch	E
RM-BC-OB-11	Vault batch should be closed before closing the branch batch	E
RM-BC-OB-16	Teller batch is closed, do you want to reopen	w
RM-BC-OB-17	Teller batch is closed	E
RM-BC-OB-18	Teller batch is already open	E
RM-BC-OB-19	Teller batch is closed	I
RM-BC-OB-20	Invalid Currency Code	E
RM-BC-OB-21	Authlimit Breached	E
RM-BC-OB-22	Transaction limit breached at role level	А
RM-BC-OB-23	Wrong token	E



Error code	Description	Type [E-Error, W-Warning, I-Information]
RM-BC-OB-24	Branch batch is already closed	E
RM-BC-OB-25	Vault batch is already closed	E
RM-BC-OB-26	User is not allowed to open/close the teller batch	E
RM-BC-OB-27	Vault batch is not opened	E
RM-BC-OB-29	Please maintain denomination tracking in Branch Parameter	E
RM-BC-OB-30	Denomination Amount is not equal to total cash amount	E
RM-BC-OB-31	Insufficient Amount available in Till/Vault	E
RM-BC-OB-32	Logged in user ID and Teller Id cannot be same	E
RM-BC-OB-33	Invalid Input TellerId	E
RM-BC-OB-34	Current Denomination balance is less than zero for \$1	E
RM-BC-PM-01	Record Successfully Updated	I
RM-BC-RT-01	Failed in getting the exchange rate	E
RM-BC-RT-02	Failed to fetch Branch Accounting Tags	E
RM-BC-TF-01	User not Verified Signature	E
RM-BC-TF-02	Transaction involves Inter Bank Accounts	W



Error code	Description	Type [E-Error, W-Warning, I-Information]
RM-BC-TF-03	Default Charge Amount was modified	w
RM-BC-TF-04	Default Exchange Rate was modified	W
RM-BC-TF-05	Amount exceeds limit for this transaction	W
RM-BC-TF-06	Authorisation required. Amount exceeds limit for the transaction	A
RM-BC-TF-07	Transaction & Electronic Journal ID needs to be Enter	E
RM-BC-TF-08	Invalid Txn_Ref_Number found for given EJId	E
RM-BC-TR-07	Invalid Input!!	E
RM-BC-UL-01	User Limit Transaction Amount breached	W
RM-BC-UL-02	Authorizer Limit Transaction Amount breached	E
RM-BC-UL-03	User Limit Holding Minimum Amount breached	W
RM-BC-UL-04	User Limit Holding Maximum Amount breached	W
RM-BC-UP-01	Amount exceeds limit for this transaction	W
RM-BC-UP-02	Minimum charge amount should be applied	E
RM-BC-UP-03	Amount exceeds limit for this transaction	A
RM-BC-UP-04	Authorisation amount breached.	E



Error code	Description	Type [E-Error, W-Warning, I-Information]
RM-BC-UP-05	Till maximum balance breached	W
RM-BC-UP-06	Till minimum balance breached	W
RM-BC-UP-07	Authoriser role limit breached	A
RM-BC-UP-08	Teller role limit breached	A
RM-BC-UP-09	Transaction requires approval.	A
RM-BC-UR-01	Submit URL not maintained	E
RM-BC-VA-01	Till open	E
RM-BC-VA-02	Vault Open	E
RM-BC-VA-03	Pending txn	E
RM-BC-VA-10	Invalid Status	E
RM-BC-XR-01	Exchange not Maintained	Е
RM-BC-XT-01	Failed in getting the exchange rate	E
RM-CH-LM-01	Channel limit not found for Account class group	E
RM-CH-LM-02	Channel limit details not found	E
RM-CH-LM-03	Channel limit details found for transaction currency	E



Error code	Description	Type [E-Error, W-Warning, I-Information]
RM-CH-LM-04	Number of Withdrawal breached	E
RM-CH-LM-05	Withdrawal Limit breached	E
RM-CM-OR-001	Failed to initiate.	E
RM-CM-OR-002	Transaction is successfully initiated.	I
RM-CM-OR-003	Invalid action, failed to initiate.	E
RM-CM-OR-004	\$1 is not submitted, transaction remains the same.	I
RM-CM-OR-005	Cannot proceed with submit as the action is not initiated.	E
RM-CM-OR-006	Cannot proceed with submit as the information is incomplete.	E
RM-CM-OR-007	Failed to submit.	E
RM-CM-OR-008	Record successfully submitted.	I
RM-CM-OR-009	\$1 is in-progress, failed to initiate.	E
RM-CM-OR-010	Aw, snap! An unexpected exception occurred, try again.	E
RM-CM-OR-011	Invalid request.	E
RM-CM-OR-012	Cannot proceed with submit as the action is not initiated.	E
RM-CM-OR-013	Cannot find the provided information.	E



Error code	Description	Type [E-Error, W-Warning, I-Information]
RM-CM-OR-014	Record is not yet submitted by \$1, cannot initiate the action.	E
RM-CM-OR-015	Record already unlocked by \$1.	E
RM-CS-OB-01	Invalid denomination found	E
RM-CS-OB-02	Invalid denomination found for given currency or denomination type	E
RM-CS-OB-03	Transaction Number Already Exist	E
RM-CS-OB-04	Data Not Found	E
RM-CS-OB-05	Amount Mismatch	E
RM-CS-OB-50	SanctionRefNo is already Present.	E
RM-CS-TF-07	MinCash excedes the MaxCash Value	w
RM-CT-AC-01	Charges are not maintained	E
RM-CT-AC-02	Charges should not be maintained	E
RM-CT-AC-04	Failed to get the account	E
RM-EX-CS-01	User is an Invalid User	E
RM-EX-CS-02	Account number is invalid.	E
RM-EX-CS-03	Source Reference Number Already Present	E



Error code	Description	Type [E-Error, W-Warning, I-Information]
RM-EX-CS-05	NegotiatedExchangeRate is not provided	E
RM-EX-CS-06	NegotiationReferenceNumber is not provided	E
RM-EX-PY-05	NegotiatedExchangeRate is not provided	E
RM-EX-PY-06	NegotiationReferenceNumber is not provided	E
RM-PA-EQ-01	Record not Found.	E
RM-PY-AC-01	From account and to account are same	E
RM-PY-AC-02	Account number not entered for field \$1	E
RM-PY-BC-01	Bank code or bank BIC code not entered	E
RM-PY-BC-02	Please enter either bank code or bank BIC code	E
RM-PY-CL-01	Payee account and drawer account are same	E
RM-PY-CL-02	Drawer account number and instrument number combination are same	E
RM-PY-CL-03	Invalid Batch Number	E
RM-PY-CR-01	Remittance number not found	E
RM-PY-CR-02	Remittance number is already issued/used	E
RM-PY-CR-03	Please provide Remittance number/Test Key number	E



Error code	Description	Type [E-Error, W-Warning, I-Information]
RM-PY-CR-04	Invalid Remittance number/Test Key number	E
RM-PY-IN-01	Instrument details not found	E
RM-TD-SL-01	No Maintanance found for Term Deposit opening	E
RM-TD-SL-02	Offset GL account not found	E
RM-TN-RV-02	The transaction Status should be pending	E
RM-TR-EX-01	Unhandled Exception Occured	E
RM-TS-TB-10	Teller batch not opened yet	E
RM-TX-BE-01	Unhandled Exception Occured	E
RM-TX-CA-01	Charge amount limit Breached from Min Max Amount	E
RM-TX-CA-02	Charge amount limit Breached from Min Max Pecentage	E
RM-TX-CC-01	Add provided Currency to the Till	Е
RM-TX-ET-01	Session should be Opened before closing.	Е
RM-TX-ET-02	Amount \$1 \$2 has to be given by the customer.	I
RM-TX-ET-03	Amount \$1 \$2 has to be given to the customer.	I
RM-TX-ET-04	The incoming cash amount in the session is exceeding by \$1 \$2.Do you want to proceed.	W



Error code	Description	Type [E-Error, W-Warning, I-Information]
RM-TX-ET-05	Open Teller Sessions are present. Cannot proceed with the operation.	E
RM-TX-ET-06	Teller Session Transactions not completed.Cannot proceed with the operation.	E
RM-TX-EX-01	Unhandled Exception Occured	E
RM-TX-HH-01	Failed in Host Handoff	E
RM-TX-LC-01	Transaction is locked	E
RM-TX-LI-00	Amount exceeds the limit of transaction.	E
RM-TX-NL-01	Unhandled Exception Occured	E
RM-TX-OC-01	Branch Info not available	E
RM-TX-OC-02	Function Code definition not maintained	E
RM-TX-OC-03	Function Code preferences not maintained	E
RM-TX-OC-04	Branch Parameter maintenance not found	E
RM-TX-OC-05	User preferences not maintained	E
RM-TX-OC-06	Default authorizer not maintained for the user	E
RM-TX-OC-07	Function Indicator entry not found	E
RM-TX-OC-08	Record status is null in Function Code Definition Screen	E

Error code	Description	Type [E-Error, W-Warning, I-Information]
RM-TX-OC-09	Record status is closed in Function Code Definition Screen	E
RM-TX-OC-10	Record status is null in User Preferences Screen	E
RM-TX-OC-11	Record status is closed in User Preferences Screen	E
RM-TX-OC-12	Record status is null in Function Code Preferences Screen	E
RM-TX-OC-13	Record status is closed in Function Code Preferences Screen	E
RM-TX-PM-01	1 Transaction status is pending, waiting for the notification from E payment system	E
RM-TX-PM-03	Failed in payment system	E
RM-TX-RV-01	The transaction Status should be completed	E
RM-TX-RV-02	Only maker can reverse the transaction	E
RM-TX-RV-03	Authorization required for reversal	А
RM-TX-RV-04	Minimum teller branch ccy holding limit breached	E
RM-TX-RV-05	Maximum teller branch ccy holding limit breached	E
RM-TX-SL-01	Unhandled Exception Occured	E
RM-TX-ST-01	The incoming cash amount in the session is exceeding by \$1.Do you want to proceed.	W
RM-TX-ST-02	Total inflow cash amount remaining after this transaction is \$1.	I



Error code	Description	Type [E-Error, W-Warning, I-Information]
RM-TX-ST-03	Another open session in progress for the entered Customer No	E
RM-TX-ST-04	Another open session in progress for the Teller	E
RM-TX-ST-05	Teller session needs to be opened to perform this transaction.	E
RM-TX-ST-06	This transaction is not allowed inside the teller session	E
RM-TX-TO-01	Unhandled Exception Occured	E
RM_BC_CV_01	Amount Limit Exceeded for Account Number	E
RM_BC_CV_02	Amount Limit Exceeded for Customer Type	E
RM_BC_CV_03	Amount Limit Exceeded for Product Class	E
RM_BC_MA_01	Netting Charges Required Should be (Y/N).	E
RM_BC_MA_02	Main Leg Accounting Required Should be (Y/N).	E
RM_BC_MN_01	Invalid function code for till/vault indicator	E
RM_BC_MN_02	Invalid transaction type for till/vault indicator	E
RM_BC_OB_08	Please close the previous day batch	E
RM_BC_OB_09	User is not allowed to open the Teller batch	E
RM_BC_OB_10	Teller batches should be closed before closing the branch/vault batch	E



Error code	Description	Type [E-Error, W-Warning, I-Information]
RM_BC_OB_11	Vault batch should be closed before closing the branch batch	E
RM_BC_TB_10	Teller batch is already opened	E
RM_BC_TB_11	Teller batch is already closed	E
RM_BC_VA_01	Supervisor Id is not present for manual assignment.	E
RM_CS_BC_01	Invalid Instrument No	E
RM_CS_BC_02	Instrument is already in Used status	E
RM_CS_BC_03	Instrument is not in INIT status to Print/Reprint	E
RM_CS_BC_04	Instrument Number Already Liquidate	E
RM_CS_DD_04	Incorrect DD details	E
RM_CT_AC_03	Account Type mismatch Exception Occured	E
RM_CT_AC_04	Invalid Account Number	E
RM_CT_AC_06	Both Account cannot be Customer Accounts	E
RM_TR_EX_01	Unhandled Exception Occured	E
RM_TX_CX_01	Authorization required for Charge Amendment.	A
RM_TX_EX_01	Authorization required for inter branch Transaction.	А



Error code	Description	Type [E-Error, W-Warning, I-Information]
RPM-AC-003	Source stage value should be either Y/N not valid	E
RPM-AC-017	DatasegmentCode not valid	E
RPM-AC-018	DocumentType Code not valid	E
RPM-AC-020	Life cycle not valid	E
RPM-AC-023	Unable to \$1 Business Process as \$2 data segment has the following dependencies \$3 in lifecycle \$4 ,which have not been mapped prior to it!	E
RPM-AC-024	Unable to \$1 Business Process as the mandatory data segments \$2 for the \$3 lifecycle have not been mapped!	E
RPM-AC-026	In \$1 stage of \$2 Business Process,duplicate data segements - \$3 are not allowed	E
RPM-AC-027	Record already exist with same Lifecycle and Business Product	E
RPM-AC-028	At \$1 in \$2 stage of \$3 Business Process,duplicate record for - \$4 exist	E
RPM-AC-029	At \$1 in \$2 stage of \$3 Business Process,Business Product List is invalid.	E
RPM-AC-030	Business Product Code is Invalid	E
RT-F23-001	Error. Enter at least one row in Payment Data Details	E



Error code	Description	Type [E-Error, W-Warning, I-Information]
RT-F23-002	Error. Cannot enter more than eight records in Payment Data Details	E
RT-F23-006	Error. Mandatory Field Payment Type Cannot be Null.	E
RT-F23-007	Error. Fiscal Code has to be 11 or 16 character long.	E
RT-F23-008	Error. Fiscal code does not meet checksum algorithm validations	E
RT-F23-017	Error. Enter at least one field in either Reference Number Available or Reference Number Not Available.	E
RT-F23-019	Error. Both Reference Number and Primary fiscal code cannot be null.	E
RT-F23-020	Invalid character entered for Tax Code	E
RT-F24-099	Payment Amount Cannot be Zero/Negative	E
RT-F24-101	Payment amount should not Be Blank ,Please Click on Refresh Button	E
RT-F24-114	Principal fiscal code is mandatory	E
UBS-BC-UB-01	No More Payments	E
UBS-BC-UB-02	Invalid Settlement Account for the Contract	E



6 Appendix A: Acronyms, Abbreviations, and Definitions

The following acronyms/abbreviations are used in this guide:

Table 7: Acronyms and Abbreviations

Acronyms	Definition
API	Application Programming Interface
СМС	Common Core
ELK	Elasticsearch Logstash Kibana
НТТР	Hypertext Transfer Protocol
LDAP	Lightweight Directory Access Protocol
мос	Mid-office Common Core
SMS	Security Management System
SSL	Secure Sockets Layer
UI	User Interface
URL	Uniform Resource Locator
VPN	Virtual Private Network



7 Appendix B: Related Documentation

The related documents are as follows:

- Observability User Guide
- Getting Started User Guide
- Oracle Banking Microservices Platform Foundation User Guide
- Oracle Banking Common Core User Guide
- Oracle Banking Security Management System User Guide
- Oracle Banking Branch User Guide
- Servicing Configurations User Guide
- Current Account and Savings Account User Guide
- Loan Service User Guide
- Deposit Services User Guide

