Oracle® Banking Origination Troubleshooting Guide



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ORACLE

Oracle Banking Origination Troubleshooting Guide, Release 14.8.0.0.0

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Preface

- Purpose
- Audience
- Documentation Accessibility
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- Diversity and Inclusion
- Conventions

Purpose

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

Audience

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

Documentation Accessibility

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Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners,



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Conventions

The following text conventions are used in this document:

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



1 Troubleshooting Technical Flows

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

This topic contains the following subtopics:

- Where is the Problem
 This topic describes about troubleshooting the problem in the distributed system
- Preliminary Checks from UI This topic provides systematic instructions to launch the application and check for the basic errors.
- Preliminary Checks from Service Log Files This topic describes about preliminary checks from service log files.
- Login to Zipkin This topic describes the systematic instructions to troubleshoot the errors using the Zipkin Traces.
- Troubleshooting Logs using ELK Stack This topic describes about Troubleshooting Logs using ELK Stack.
- Check if Kafka is Running This topic provides information about Kafka is Running.
- Troubleshooting Environmental Issues This topic describes about the troubleshooting environmental issues.

1.1 Where is the Problem

This topic describes about troubleshooting the problem in the distributed system

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

It is important to establish the area of the problem. This can be achieved by complete understanding of UI, Service side flows along with the data architecture of application.



?? Where's the Problem?? Problem? Problem

Figure 1-1 Distributed Flow across Micro Services

1.2 Preliminary Checks from UI

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

- 1. Launch the application with delegated URL.
- 2. Press F12 key and select Inspect and See network.
- 3. Verify that all the call responses are successful.

🗟 🚹 🕴 Elements Con	sole Sources Network Performance Memory	Application	Lighthouse	Security			🛛 4 🗛 3	\$	1
earch	🗙 🕚 🚫 🦵 🔍 🗌 Preserve log 🗌 Disa	able cache No	o throttling	v <u>±</u>					¢
a .* Search	C 🛇 Filter 🗌 Hide data UR	S ALL XHR I	s CSS Ima	Media Font Doc WS Mar	ifest Other	Has blocked cookies 🗌 Block	ed Requests		
a i scoren	200 ms 400 ms	600 ms	800 ms		1200 ms	1400 ms 1600 m			20
			000 1113	1000 113	1200 113		1000 1118		6
					_	=_			
	Name	S Ty		Initiator	Size	Time	Waterfall		
	loader.js	2 so		require.js:5	1.2 kB	28 ms	•		
	fsgbu-ob-cmn-ct-rs-json-compare.html	2 xł	nr	text.js:325	4.8 kB	35 ms	•		
	fsgbu-ob-cmn-ct-rs-json-compare.js	2 sc		require.js:5	15.4 kB	51 ms			
	fsgbu-ob-cmn-ct-rs-json-compare.json	2 xł	nr	text.js:325	351 B	44 ms			
	fsgbu-ob-cmn-ct-rs-json-compare.css		ylesheet	css.js:149	850 B	46 ms			
	fsgbu-ob-cmn-ct-json-compare.html	2 xł	nr	text.js:325	3.4 kB	44 ms			
	fsgbu-ob-cmn-ct-json-compare.js	2 sc	ript	require.js:5	12.5 kB	46 ms	•		
	fsgbu-ob-cmn-ct-json-compare.json	2 xł	nr	text.js:325	741 B	75 ms			
	fsgbu-ob-cmn-ct-json-compare.css	2 st	ylesheet	css.js:149	962 B	56 ms	4		
	cmnctrsjsoncomparemodel.js	2 so	ript	require.js:5	4.8 kB	36 ms	1		
	jrowexpander.js	2 sc	ript	require.js:5	107 kB	89 ms	•		
	jflattenedtreetabledatasource.js	2 sc	ript	require.js:5	20.7 kB	49 ms			
	?userId=ADMINUSER1&branchCode=000&cca	Name 2 pr	reflight	Preflight 🕞	0 B	29 ms	- I -		
	?userId=ADMINUSER1&branchCode=000&cca	Name 2 xł	nr	jquery-3.5.1.min.js:2	551 B	71 ms			
	accounts?includecloseandunauth=true&offset	=0&li 2 pr	reflight	Preflight 🕞	0 B	30 ms	1 I I		
	accounts?includecloseandunauth=true&offset	=08:li 2 xł	nr	jquery-3.5.1.min.js:2	17.3 kB	282 ms			
	refresh.png	2 pi	ng	fsgbu-ob-cmn-ct-act-sum	4.1 kB	31 ms			
	open.png	2 pi	ng	fsgbu-ob-cmn-ct-act-sum	4.4 kB	31 ms			
	arrow.png	2 pi	ng	fsgbu-ob-cmn-ct-act-sum	3.5 kB	32 ms			
	authorized.png	2 pr	ng	png u-ob-cmn-ct-act-sum	5.0 kB	32 ms			4
	unauthorized.png	2 pi	na	isypu-ob-cmn-ct-act-sum	5.3 kB	30 ms			

Figure 1-2 Call Responses

52 requests 371 kB transferred 362 kB resources

Note:

Usually red color indicates a non-2xx HTTP response.



Create Account Input													,, ¹⁶ ×
Account Description *	A	ccount Purpose			Balance Av	/ailability	*		Fixed	Amount in P	ool Currency	/	
KEITH Balance Check for Debits Overdraft Required	C	Corporate Range	e has not been (defined in E	Branch for re	spective c	ustomer.	ок	Overa	unt Frozen draft End Date 7, 2018	e		
Interest Calculation	Sources Network		a 19 av	ion Lighth		-		_				Save	Cancel
Search X		_	mory Applicati									30 A 5 -	v : ∧ ∣⊅
Aa .* Search C O	Filter		ata URLs 📶 XH				WS Manife 40000 ms		Has blocked o	ookies 🗌 Blo	cked Requests	5 65000 ms	
			_										
	Name			× Header	s Preview	Response	Initiator	Timing					
	error.png accounts						.in.oracle.	com:7006/api	gateway/ob	/am-account-s	ervices/acc	ounts	
	accounts 11 requests 17.	8 kB transferred 14.9	 kB resources 		Method: POS ⁻ ode: \varTheta 400 B		t						

Figure 1-3 Non-2xx Response

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

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

Figure 1-4 Export Option

Elements	Console	Sources	Network	Perform	ance N	lemory	Application	Security	Lighthouse	
₹ Q	Preserve	log 🗌 Disa	ible cache	Online	v ±	<u>+</u>				
5 ms	10 ms	15 ms	20) ms	25 ms	Export H	HAR	35 ms	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 the exact request and response payloads exchanged between UI and API Gateway.

1.3 Preliminary Checks from Service Log Files

This topic describes about preliminary checks from service log files.

The war deployments for each microservice sub-domain can generate the log files in the 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 do not get overwhelmed.



Note:

Refer to **Oracle WebLogic Server Documentation Library** 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.

1.4 Login to Zipkin

This topic describes the systematic instructions to troubleshoot the errors using the Zipkin Traces.

1. Launch the Zipkin URL.



Figure 1-5 Layout of Zipkin

Service Name	Span Name	Remote Servic	ce Name	Lookback	
zipkin	all	✓ all	~	15 minutes	
Annotation Query		Duration (μs)	>= Limit	Sort	
For example: http.path=/f	oo/bar/ and cluster=foo and cache.m	niss Ex: 100ms o	r 5s 10	Longest First	

2. Use Search to find the traces of required API calls and services.



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.

Some error API calls are made to showcase how to track errors. The blue listing shows the successful API hits, and the red listing indicates the errors. Each block indicates a single trace in the listing. The below figure shows the list of traces.



Figure 1-6 List of Traces

Service Name	Span Name	Remote Se	ervice Name	Lookback	
				 ✓ 1 hour 	•
Annotation Query		Duration (μs) > = Limit		Sort
For example: http.path=/	foo/bar/ and cluster=foo and cache.miss	Ex: 100n	ns or 5s		Longest First
Find Traces Showing: 4 of 4 Services: zipkin					L NOSL
Services. Zipkin					
.163s 5 spans					
ipkin 100%					
okin x5 2.163s					18 minutes ag
.449s 4 spans					
ipkin 100%					
okin x4 1.449s					22 minutes a
.430s 4 spans					

3. Open the individual trace.

It describes the time taken for each block. As the two custom spans are created inside two service calls, user can find a total of four blocks.

The time taken for an individual block is shown below.

The details of an individual trace displays.

Figure 1-7 Individual Trace

Inves	ligate system behavior Finc	a trace View Saved Trace I	Dependencies	Try Lens UI	Go to trace	Search
Duration: 2.16	3s Services: 1	Depth: 3	Total Spans:	3		JSON 🛓
	C 11 A11					
Expand All	Collapse All					
Expand All						
		432.639ms	865.278ms	1.298s	1.731s	2.1
zipkin x4	-2.163s : http://api1	432.639ms	865.278ms	1.296s	1.731s	2.1
zipkin x4 ervices zipkin						2.1
zipkin x4	-2.163s : http:/api1		- • 0			2.1

4. Click on the individual block to display the details.



Investigate sy	Date Time	Relative Tim	e Annotation	Address		Search
			Server Start	(zipkin)		
		2.163s	Server Finish	(zipkin)		
Duration: 2.163s	Кеу	Valu	le			JSON 🛓
Expand All Collar	http.host	loca	lhost			
	http.method	GET				
zipkin x4	http.path	/api	1			
Services	http.status_code	200			731s	
	2.16 http.url	http	://localhost:8080/api1			
zipkin	mvc.controller.class	Con	troller			
zipkin -	myc.controller.method	api1				
_	spring.instance_id					
	Show IDs					
	traceld					
	spanId					

Figure 1-8 Details of Individual Block

The user can also view the logging events in the Zipkin UI as small circular blocks. An example of an error log is shown below.

Figure 1-9 Sample Error Log

Duration: 1.026s	Services: 1	Depth: 2	Total Spans:	3		JSON 🚣
Expand All Co	ollapse All					
	ollapse All					
zipkin x3	ollapse All	205.134ms	410.267ms	615.401ms	820.534ms	
	-1.026s : http:/api1	205.134ms	410.267ms	615.401ms	820.534ms	

5. Click the error to get clear details and place of the error.

Investigate system	Services: zipkin				
	Date Time	F	Relative Time	Annotation	Address
ion: 1.026s				Server Start	(zipkin)
		1	1.026s	Server Finish	(zipkin)
nd All Collapse /	Кеу	Value			
×3	error		processing failed; no rorException: 500 nu		org.springframework.web.client.Http
0.36	http.host	localhost	t		
-1.026	http.method	GET			
	http.path	/api1			
	http.status_code	500			
	http.url	http://loo	calhost:8080/api1		
	mvc.controller.class	BasicErro	orController		
	mvc.controller.method	errorHtm	nl		
	spring.instance_id				

Figure 1-10 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 **Traceid** 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 the **Dependencies** to get the dependency graph information between micro-services.

Figure 1-11 Sample Dependency Graph

Zipkin Investigate system behavior	Find a trace	Dependencies
Start time	_	End time Analyze Dependencies
	▶ todos-api	log-message-processor
frontend	auth-api	users-api

1.5 Troubleshooting Logs using ELK Stack

This topic describes about Troubleshooting Logs using ELK Stack.

This topic contains the following subtopics:

• Set Up ELK

This topic provides the links to setup ELK.



 Access Kibana This topic provides systematic instructions to access Kibana.

1.5.1 Set Up ELK

This topic provides the links to setup ELK.

- Download the Elastic search from https://www.elastic.co/downloads/elasticsearchhttps:// www.elastic.co/downloads/elasticsearch.
- Download the Kibana from https://www.elastic.co/downloads/kibanahttps:// www.elastic.co/downloads/kibana.
- Download the Logstash from https://www.elastic.co/downloads/logstashhttps:// www.elastic.co/downloads/logstash.



Step to run ELK:

- 4. Run the elasticsearch.sh file present in the folder path /scratch/software/ELK/ elasticsearch-6.5.1/bin.
 - Edit network.host to localhost and port if necessary. This should be enough for it to run.
 - Start: nohup bin/elasticsearch &
- 5. Configure the Kibana to point the running instance of elastic search in the kibana.yml file.

Figure 1-12 Logstash Configuration

```
# 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
```

6. Follow the below steps to configure the Logstash.



- 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**: This provides the running elastic search instance to send the data for persisting.

Figure 1-13 Kibana

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

Figure 1-14 Kibana

```
#Grokking Spring Boot's default log format
  grok {
   match => [ "message", "%{TIMESTAMP_IS08601:timestamp}\s+%{LOGLEVEL:severity}\s+\[%{DATA:service},%{DATA:trace},%{DATA:span}
  }
  #Parsing out timestamps which are in timestamp field thanks to previous grok section
  date {
    match => [ "timestamp" , "yyyy-MM-dd HH:mm:ss.SSS" ]
  fingerprint {
   source => "message"
    target => "[@metadata][fingerprint]"
    method => "MD5"
    key => "test"
  }
  ruby {
    code => "event.set('[@metadata][prefix]', event.get('@timestamp').to_i.to_s(16))"
#Ingest logs to Elasticsearch
output {
  elasticsearch {
   hosts => ["localhost:9200"]
    index => "%{[@metadata][app_name]}-%{[@metadata][envt]}-%{+YYYY.MM.dd}"
    document_id => "%{[@metadata][prefix]}%{[@metadata][fingerprint]}"
  stdout { codec => rubydebug }
}
```



1.5.2 Access Kibana

This topic provides systematic instructions to access Kibana.

- 1. Go to path /kibana-7.8.1-linux-x86 64/config/kibana.yml.
- Edit server.host: "0.0.0.0" for access outside host and server.port: <any port, defaults to 5601>.
- 3. Validate elasticsearch properties it defaults to localhost:9200
- 4. Go to http://host:port you should be able to see the Kibana console UI. Kibana needs elasticsearch to be UP as it creates indexes & fetches logs from it.
- 5. Start the nohup bin/kibana &

Figure 1-15 Kibana



1.6 Check if Kafka is Running

This topic provides information about Kafka is Running.

1. Run the cmd \$ netstat -tlnp | grep :9092.



9092 is default port of kafka.

Possible issue while starting kafka

- 2. Kafka is not starting may be because zookeeper is not yet started.
 - Run the cmd \$ netstat -tinp | grep :2181.

Note:

2181 is default port of zookeeper.



if any services is not running on this port means, zookeeper is down.

3. Check if any permission issue is there for kafka log folder.

Note:

To Create console producer and consumer for troubleshooting, refer to http:// cloudurable.com/blog/kafka-tutorial-kafka-from-command-line/index.html.

Note:

Some references that can be useful https://docs.cloudera.com/documentation/ kafka/latest/topics/kafka_faq.html

1.7 Troubleshooting Environmental Issues

This topic describes about the troubleshooting environmental issues.

This topic contains the following subtopics:

- Possible Issues While Deploying Services This topic describes the possible issues that may occur in the environment.
- Possible Issues While Logging in and Launching Screen
 This topic describes the possible issues that may occur while logging in to the application
 and launching the screens.

1.7.1 Possible Issues While Deploying Services

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

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

Service deployment is failing due to flyway

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

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

Other possible issues

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

weblogic.application.naming.EnvironmentException: duplicate persistence units with the name PLATO in scope cmc-customer-services-5.3.0.war.



1.7.2 Possible Issues While Logging in and Launching Screen

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

Login Page is not Launching

Perform the following checks if the login page is not launching.

- 1. Check whether the app-shell war file is deployed.
- 2. Make sure that the war file is up and running in the deployed managed server and try to login again.
- Check whether the user has logged in with the appshell URL according to the war file deployed.
- 4. Check whether the required component-server wars like cmc-component-server, obvamcomponent-server etc are also deployed along with the app-shell.

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

In the above URL, the name <code>app-shell</code> is dynamic which depends on the name of war file deployed.

ORACLE	
User Name *	
Password *	
Sign In	

Figure 1-16 Sign In



Unable to login after launching the application

Perform the following check if you are not able to login after the application is launched.

• Make sure that the plato-api-gateway service, plato-ui-config service, sms-core-service, and common core services are up and running.

Figure 1-17 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)	$\textbf{UP(1)} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
PLATO-UI-CONFIG-SERVICES	n/a (1) (1)	$\textbf{UP(1)} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
SMS-CORE-SERVICES	n/a (1) (1)	UP (1) - fsgbu-phx-54.snphxprshared1.gbucdsint02phx.oraclevcn.com:sms-core-services:5012

Unable to login after restarting the services

Perform the following check 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.

Retail Banking menus are not displayed after logging in

After you log in, if the Retail Banking 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.

Screens are not launching after logging in

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

Note:

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



2 Health Checks

This topic provides information about health checks.

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

Application	AMIs	Availability Zones	Status
CMC-ACCOUNT-SERVICES	n/a (1)	(1)	UP (1) - whf00cdl.in.oracle.com:cmc-account-services:7005
CMC-ADVICE-SERVICES	n/a (1)	(1)	UP (1) - whf00cdl.in.oracle.com:cmc-advice-services:7005
CMC-BASE-SERVICES	n/a (1)	(1)	UP (1) - whf00cdl.in.oracle.com:cmc-base-services:7005
CMC-BRANCH-SERVICES	n/a (1)	(1)	UP (1) - whf00cdl.in.oracle.com:cmc-branch-services:7005
CMC-BUSINESSOVERRIDES-SERVICES	n/a (1)	(1)	UP (1) - whf00cdl.in.oracle.com:cmc-businessoverrides-services:7005
CMC-CHECKLIST-SERVICES	n/a (1)	(1)	UP (1) - whf00cdl.in.oracle.com:cmc-checklist-services:7005
CMC-COMMENTS-SERVICES	n/a (1)	(1)	UP (1) - whf00cdl.in.oracle.com:cmc-comments-services:7005
CMC-CURRENCY-SERVICES	n/a (1)	(1)	UP (1) - whf00cdl.in.oracle.com:cmc-currency-services:7005
CMC-CUSTOMER-SERVICES	n/a (1)	(1)	UP (1) - whf00cdl.in.oracle.com:cmc-customer-services:7005
CMC-DATASEGMENT-SERVICES	n/a (1)	(1)	UP (1) - whf00cdl.in.oracle.com:cmc-datasegment-services:7005
CMC-DOCUMENT-SERVICES	n/a (1)	(1)	UP (1) - whf00cdl.in.oracle.com:cmc-document-services:7005
CMC-EXTERNAL-CHART-ACCOUNT-SERVICES	n/a (1)	(1)	UP (1) - whf00cdl.in.oracle.com:cmc-external-chart-account-services:7005
CMC-OBCBS-SERVICES	n/a (1)	(1)	UP (1) - whf00cdl.in.oracle.com:cmc-obcbs-services:7005
CMC-OBRH-SERVICES	n/a (1)	(1)	UP (1) - whf00cdl.in.oracle.com:cmc-obrh-services:7005

Figure 2-1 Health Checks

This topic contains the following subtopics:

- WebLogic
 - This topic describes about the Weblogic details.
- Configure Data Sources in WebLogic This topic describes systematic instructions to configure the data sources in WebLogic.

2.1 WebLogic

This topic describes about the Weblogic details.

This topic contains the following subtopics:

2.2 Configure Data Sources in WebLogic

This topic describes systematic instructions to configure the data sources in WebLogic.

- 1. On the WebLogic console, in the **Domain Structure** panel, click **Data Sources**.
- On the Summary of JDBC Data Sources screen, click New and add the data source providing the required details.



/		rces >PLATO >Summary of JDBC Data Sour	025
mmary of JDBC Data Sourc		,	
mmary of JDBC Data Source	les		
Configuration Monitoring			
A JDBC data source is an obje	ct bound to the JNDI t	ree that provides database connectivity thre	ough a pool of JDBC connections. Applications can look up a data source on the JNDI tree and then borrow a datab
This page summarizes the JDI	3C data source objects	that have been created in this domain.	
Overhead and the table			
Customize this table			
Data Sources (Filtered - Mo	re Columns Exist)		
New - Delete			
Generic Data Source			
	Туре	JNDI Name	Targets
GridLink Data Source			
	Generic	jdbc/ICL	
Multi Data Source	Generic Generic	jdbc/ICL jdbc/LMB	
Multi Data Source		2	managed_server1, managed_server2, managed_server3, managed_server4, managed_server5, managed_server
Multi Data Source	Generic	jdbc/LMB	managed_server1, managed_server2, managed_server3, managed_server4, managed_server5, managed_server5 managed_server1, managed_server2, managed_server3, managed_server4, managed_server5
Multi Data Source	Generic	jdbc/LMB jdbc/LMC	managed_server1, managed_server2, managed_server3, managed_server4, managed_server5, managed_server5 managed_server1, managed_server2, managed_server3, managed_server4, managed_server5 managed_server1, managed_server2, managed_server3, managed_server4, managed_server5
Multi Data Source Proxy Data Source UCP Data Source	Generic Generic Generic	jdbc/LMB jdbc/LMC jdbc/LMD	managed_server1, managed_server2, managed_server3, managed_server4, managed_server5, managed_server5 managed_server1, managed_server2, managed_server3, managed_server4, managed_server5 managed_server1, managed_server2, managed_server3, managed_server4, managed_server5 managed_server1, managed_server2, managed_server3, managed_server4, managed_server5
Multi Data Source	Generic Generic Generic Generic	jdbc/LMB jdbc/LMC jdbc/LMD jdbc/LMR	managed_server1, managed_server2, managed_server3, managed_server4, managed_server5, managed_server5 managed_server1, managed_server2, managed_server3, managed_server4, managed_server5 managed_server1, managed_server2, managed_server3, managed_server4, managed_server5 managed_server1, managed_server2, managed_server3, managed_server4, managed_server5 managed_server1, managed_server2, managed_server3, managed_server4, managed_server5, managed_server5, managed_server4, managed_server4, managed_server5, managed_server4, managed_server4, managed_server5, managed_server5, managed_server4, managed_server4, managed_server4, managed_server5, managed_server5, managed_server4, managed_server4, managed_server4, managed_server5, managed_server5, managed_server4, managed_server4, managed_server4, managed_server4, managed_server4, managed_server5, managed_server5, managed_server4, managed_server4, managed_server4, managed_server4, managed_server4, managed_server4, managed_server4, managed_server4, managed_server4, managed_server5, managed_server5, managed_server4, managed_se
Multi Data Source Proxy Data Source UCP Data Source LMR LMR LMX	Generic Generic Generic Generic Generic	jdbc/LMB jdbc/LMC jdbc/LMD jdbc/LMR jdbc/LMX	managed_server1, managed_server2, managed_server3, managed_server4, managed_server5, managed_server5 managed_server1, managed_server2, managed_server3, managed_server4, managed_server5 managed_server1, managed_server2, managed_server3, managed_server4, managed_server5 managed_server1, managed_server2, managed_server3, managed_server4, managed_server5 managed_server1, managed_server2, managed_server3, managed_server4, managed_server5, managed_server5 managed_server1, managed_server2, managed_server3, managed_server4, managed_server5, managed_server5, managed_server1, managed_server2, managed_server3, managed_server4, managed_server5, managed_server5, managed_server1, managed_server2, managed_server3, managed_server4, managed_server5, managed_server5, managed_server1, managed_server3, managed_server4, managed_server5, managed_server5, managed_server1, managed_server3, managed_server3, managed_server4, managed_server5, managed_server5, managed_server1, managed_server3, managed_server4, managed_server5, managed_server5, managed_server1, managed_server3, managed_server4, managed_server4, managed_server5, managed_server5, managed_server4, managed_server4, managed_server5, managed_server5, managed_server4, managed_server4, managed_server5, managed_server5, managed_server4, managed_server4, managed_server5, managed_server5, managed_server5, managed_server4, managed_server4, managed_server5, managed_ser
Multi Data Source Proxy Data Source UCP Data Source ULMR UMX UMX URT	Generic Generic Generic Generic Generic Generic Generic	jdbc/LMB jdbc/LMC jdbc/LMD jdbc/LMR jdbc/LMX jdbc/LRT	managed_server1, managed_server2, managed_server3, managed_server4, managed_server5, managed_server managed_server1, managed_server2, managed_server3, managed_server4, managed_server5 managed_server1, managed_server2, managed_server3, managed_server4, managed_server5 managed_server1, managed_server2, managed_server3, managed_server4, managed_server5 managed_server1, managed_server2, managed_server3, managed_server4, managed_server5 managed_server1, managed_server2, managed_server3, managed_server5, managed_server5 managed_server1, managed_server2, managed_server3, managed_server4, managed_server5 managed_server1, managed_server2, managed_server3, managed_server4, managed_server5 managed_server1, managed_server2, managed_server3, managed_server4, managed_server5 managed_server1, managed_server2, managed_server3, managed_server4, managed_server5
Multi Data Source Proxy Data Source UCP Data Source LMR LMX LMX LAT PLATO	Generic Generic Generic Generic Generic Generic Generic	jdbc/LMB jdbc/LMC jdbc/LMC jdbc/LMR jdbc/LMR jdbc/LMX jdbc/RX jdbc/PLATO	managed_server1, managed_server2, managed_server3, managed_server4, managed_server5, managed_server5 managed_server1, managed_server2, managed_server3, managed_server4, managed_server5 managed_server1, managed_server2, managed_server3, managed_server4, managed_server5 managed_server1, managed_server2, managed_server3, managed_server4, managed_server5 managed_server1, managed_server2, managed_server3, managed_server4, managed_server5, managed_server5 managed_server1, managed_server2, managed_server3, managed_server4, managed_server5, managed_server5, managed_server5, managed_server1, managed_server2, managed_server3, managed_server4, managed_server5, managed_server5, managed_server1, managed_server2, managed_server3, managed_server4, managed_server5, managed_server5, managed_server3, managed_server4, managed_server4, managed_server5, managed_server5, managed_server5, managed_server3, managed_server4, managed_server5, managed_ser

Figure 2-2 Summary of JDBC Data Sources

New - Delete

reate a New JDBC Data Source	
Back Next Finish Cano	cel
JDBC Data Source Properties	
The following properties will be u Indicates required fields	sed to identify your new JDBC data source.
What would you like to name your	new JDBC data source?
街 * Name:	PLATO
What scope do you want to create	your data source in ?
Scope:	Global 🗸
	Global ✓ assign to your new JDBC Data Source?
What JNDI name would you like to	
What JNDI name would you like to	assign to your new JDBC Data Source?

Figure 2-3 Create a New JDBC Data Source



ORACLE[°]

Home >Summary of Servers >Summary of JDBC Data Sources >PLATO > Sum	mary of JDBC Data Sources
Create a New JDBC Data Source	
Back Next Finish Cancel	
Connection Properties	
Define Connection Properties.	
What is the name of the database you would like to connect to?	
Database Name:	OBLMDB
What is the name or IP address of the database server?	
Host Name:	whf00bqa.in.oracle.com
What is the port on the database server used to connect to the database	?
Port:	1521
What database account user name do you want to use to create databas	e connections?
Database User Name:	OBLM144DEVPLATO
What is the database account password to use to create database conne	ctions?
Password:	•••••
Confirm Password:	
Additional Connection Properties:	
oracle.jdbc.DRCPConnectionClass:	
Back Next Finish Cancel	

Figure 2-4 Create a New JDBC Data Source



3 Troubleshooting Application Workflows

This topic provides information about troubleshooting application workflows.

On successful login, the Oracle Banking Origination dashboard screen displays depending on the user privileges.

= ORACLE	a Dashboard	(DEFAULTENTITY) 11 FLEXCUBE UNIVERSAL BAN	ABIVAN
Nenu item Search Core Maintenance Dashboard File Management Financial Institution Onboarding Machine Learning Party Services	Application Search	Product Applications Near Expiry Total Representations Near Expiry Total Representation Represen	÷
Retail Banking Rule Security Management Task Management Tasks Toller	My Applications Contrare Containing Account On Provide Contrare Containing Contrare Account On Provide Containing Conta	Conversion Analysis	
	Loan Offers Near Expiry T FLITERS GBP 000 ALL NA > C O Expanse Next 50 Days Next 10 Days Next 21 Days	Permed 27 Opened New Term Deposits FILTERS GBP ALL MONTHLY >	

Figure 3-1 Oracle Banking Origination Dashboard

User Role Issues

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

Note:

Only authorized users can access the system with the help of a unique User Login ID and password.

• On Security Management, click Role screen.



ole Code *		Description *
ADMIN_ROLE		Default role for initial login
Role Activity		
Z	Functional Activity Code	Functional Activity Description
 ✓ ✓ 	Functional Activity Code CMC_FA_BRANCH_EOD_PROCESS	Functional Activity Description Branch EOD process
✓	CMC_FA_BRANCH_EOD_PROCESS	Branch EOD process
 ✓ ✓ 	CMC_FA_BRANCH_EOD_PROCESS SMS_FA_USER_NEW	Branch EOD process User Create

Figure 3-2 Role Maintenance

The user profile of a user contains the details of the user in four sections - User details, Status, Other details and User role branches.

• On Security Management, click User screen.

		1			the Name of States of Stat
Isers Mair					
	Copy Unlock Co	004			
serDetai	ls				
lsemarne "			Login ID *	Home Branch *	
CELM03			OBLIMO3	LMB Q	
atus					
iser Status			Status Changed On	is Supervisor	Manager ID *
nabie	*		Sep 10, 2020		UMADMINI Q
ort Date *	15 00		End Date Seg 50, 2021		
			369 34 CVC1		
her Det					
cess to PI	1		Staff Customer Restriction Required	Customer ID	Email ID
			0	٩	obim03@gmail.com
lephone h	lumber		Home Phone Number	Mobile Number	Fax
ene *			Language Code *		
MHITE			ENG Q		
er Role 8	Branches	-			
er Role 8	Branches Branch Code		Role Code	Rote Description	
er Role 8			Rule Case ADMN, ROLE Q.	Rue Description Default res the value login	
	Branch Code ICD LMB	9			
age 1	Branch Code	9	ADMN,ROLE Q		
age 1	Brench Code ICD LMB of1 (1-2 of 2 items) K	9	ADMN,ROLE Q		Ster A Agro
nge 1 r Applie	branch Code ICD LMB of1 (1-2 of 2 items) K - cations	а, < т > ж	ADMN,ROLE Q	Defut techt mite sejn	See A April
age 1	branch Code ICD LM8 of 1 (1-2 ef 2 item) K cations	م (<u>)</u> > ×	ADMN,ROLE Q	Selast serier viniter uppe	See A April
age 1 er Applie	brandi Code ICD LMB of 1 (1.2 of 2 items) K Catilons Application Name OBLM	а, < т > ж	ADMN,ROLE Q	Oxfud nei for inflar agin Augustant Decorption Oxeca lanking Laudob Mongerient System	See A April
ape 1 Fr Applie	Banch Cole KD KD LMB C11 C22 C22	Q <⊤> × Q Q	ADMN,ROLE Q	Defut niehr mite sign Augranen Decopton Gask Innis juszy Mangement Sjolen GOX Targeton	Sect A Reco
r Appli	Banch Cole KCD LMB Cations	م (1 > × م م	ADMN,ROLE Q	Oxfuel role for initial ages Approaches Description Oxeas Bening Laudity Mongenent System OXEM Ampresian OXEM Antragetion	Sect A Reco

Figure 3-3 Users Maintenance

Note:

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

- First level issues This topic provides information about the first level issues.
- Transaction data verification This topic provides information about the transaction data verification.



- Party Module Integration Troubleshooting This topic describes the possible issues that may occur in Party Module integration.
- FLEXCUBE Host Integration Troubleshooting This topic describes the possible issues that may occur in FLEXCUBE Universal Banking Solution integration.

3.1 First level issues

This topic provides information about the first level issues.

Error Message not Shown

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

- 1. Press F12 to open the Networks.
- Check the error code in the response.
 Query: SELECT * FROM ERTB_MSGS WHERE ERR_CODE='GCS_AUTH-03'

Figure 3-4 Error Message not Shown



Setting Log File Path

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

Query: Select * from PLATO_LOGGER_PARAM_CONFIG;

Figure 3-5	Setting Log	File Path
------------	-------------	-----------

	sele	ct 📩 from pla	to_logger_param_co	nfig;
	y Resi	ult ×		
* 📇	60	SQL All Rov	vs Fetched: 3 in 0.072 sec	ronds
	∲ ID	MODIFY_FIELD	PARAM_NAME	PARAM_VAL
1	1	N	LOG_PATH	/scratch/weblogic/logs
2	2	N	LOG_LEVEL	INFO
3	3	N	LOG_MSG_WITH_TIME	Y



Dynamic Log Generation Issues

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

Quer	y Resu		Fathadi 22 ia 0 111 assanda	
		DEBUG_ENABLED	Fetched: 33 in 0.111 seconds	USER_II
1	95	Y	plato-orch-service	ABIVAN
2	96	Y	plato-orch-service	ABIVAN2
3	97	Y	plato-o	ABIVAN
4	98	Y	plato-o	ABIVAN2
5	99	Y	plato-alerts-management-services	ABIVAN
6	100	Y	plato-alerts-management-services	ABIVAN2

Figure 3-6 Dynamic Log Generation Issues

Query: Select * from PLATO_DEBUG_USERS;

Note:

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

Figure 3-7 Server Logs

/scratch/weblogic/logs/		
Name	Size	Changed
obremo-rpm-projection-services_ABIVAN_000_2021-05-07.log	173 KB	5/10/2021 11:37:10 AM
obremo-rpm-cmn-applicantservices_ABIVAN_000_2021-05-07.log	96 KB	5/10/2021 11:37:09 AM
obremo-rpm-maintenance-services_ABIVAN_000_2021-05-07.log	285 KB	5/10/2021 11:37:08 AM
obremo-rpm-maintenance-services_ABIVAN_000_2021-05-10.log	69 KB	5/10/2021 11:37:07 AM
cmc-transactioncontroller-services_ABIVAN_000_2021-05-10.log	130 KB	5/10/2021 10:21:51 AM

Call is Failing in Gateway

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



Figure 3-8 Call is Failing in Gateway



Note:

Restart the specific services if required.

Code error in GCS side

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

404 error

The possible causes for 404 error are as follows:

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

500 internal error

The possible causes for 500 internal error are as follows:

- Issue with Oracle Banking Microservices Architecture entries
- Issue with Eureka
- Service may not be up
- Issue with any peace of code

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

3.2 Transaction data verification

This topic provides information about the transaction data verification.

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

- In the IN request and OUT response, verify that all the field data is going to service side.
- If there is any error related to SMS, check for the availability of SMS entries.
- Validate the endpoints and data.
- Validate the request headers passed during the API call.



• Verify that the data entered in the screen is accurate.

Apply Now is Failing in Product Catalogue

If Apply Now in Product Catalogue is failing, troubleshoot using the below points:

- Check if conductor war and plato-orch-service war is deployed in WebLogic.
- Check whether PLATO-O and PLATO-ORCH-SERVICE is registered in Eureka.

PLATO-O	n/a (1) (1)) UP (1) - plato-o:8001
PLATO-ORCH-SERVICE	n/a (1) (1)) UP (1) - whf00dtm.in.oracle.com:plato-orch-service:7011

- Check whether the INITIATION workflow DSL is imported.
 - Front-End Menu: Tasks I Business Process Maintenance I Search for INITIATION workflow
- Check whether obremo-rpm-projection-services is up and running as this service is required during INITIATION(Apply Now).
- Check whether Sequence Generator service is up and running.

SEQUENCEGENERATORSERVICE	n/a (1) (1)	UP (1) - whf00dtm.in.oracle.com:sequencegeneratorservice:7020

Note:

Refer Preliminary Check for UI topic to see if any API call is failing

3.3 Party Module Integration Troubleshooting

This topic describes the possible issues that may occur in Party Module integration.

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

Existing Customer Details Fetch is failing

This topic describes the systematic instructions to fetch the existing customer details.

If in **Customer Information** data-segment, the existing customer details is not fetching, follow the below steps:

Note:

Refer to **Preliminary Check for UI** to see if any Party API is failing.

- 1. Check Oracle Banking Routing Hub Audit Request to see if any Oracle Banking Routing Hub calls to Party Module has failed.
 - a. On Home screen, click Core Maintenance. Under Core Maintenance, click Routing.
 - Under Routing, click Service Consumers. Under Service Consumers, Click RPM_ORIGINATION.



c. Under RPM_ORIGINATION, click Consumer Services. Under Consumer Services, click OBPY_GET_EXISTING_PARTY

Note:

If you do not find any Oracle Banking Routing Hub configuration named **OBPY_GET_EXISTING_PARTY**, that means, the Oracle Banking Routing Hub configurations are not fully imported. Import the Oracle Banking Routing Hub configuration available in the source folder.

2. From the Actions, click on Request Audit.

Figure 3-9 Service Consumers

		(DEFAULTENTITY)	Bank Futura -Branch 000 (🗎	ABIVAN		
Service Consumers				$_{\mu^{k'}} \times$		
RPM_ORIGINATION > Consu	mer Services > OBPY_GET_I	EXISTING_PARTY				
Transformation Routing						
🔒 Add ह Import search	٩,					
Actions Name	Status Product Processor	Implementation	Service			
View	ACTIVE OBPY 14.4	obpy-party-services	getPartyDetails - /service/v1/getParty/{partyId}			
Pag Edit of 1 items) K						
Delete						
Export						
Request Audit						

- 3. Check the latest getPartyDetails Oracle Banking Routing Hub call.
- 4. Click on the **Request ID** and check the **Provider Response** to check for any errors.

Figure 3-10 Request Audit

Request Audit	Request Audit (Transformation: GET_EXISTING_PARTY)						
Request Id		Provider		Provider Impleme	ntation		
Provider Service		Route	Route		User Id		
Search							
Request Id	Provider	Provider Implementation	Provider Service	Route	Status	User Id	
LKxZNjM	OBPY 14.4	obpy-party-services	getPartyDetails	obpy-get-existing-	SUCCESS	ABIVAN	
				party-details			





Figure 3-11 Request Audit Details

Customer Information Data-segment Drop-downs not Fetching

This topic describes the systematic instructions to fetch the existing customer details.

If in **Customer Information** data-segment, the existing customer details is not fetching, follow the below steps:

Note: Refer to **Preliminary Check for UI** to see if any Party API is failing.

- 1. Check Oracle Banking Routing Hub Audit Request to see if any Oracle Banking Routing Hub calls to Party Module has failed.
 - a. On Home screen, click Core Maintenance. Under Core Maintenance, click Routing.
 - b. Under Routing, click Service Consumers. Under Service Consumers, Click RPM_ORIGINATION.
 - c. Under RPM_ORIGINATION, click Consumer Services. Under Consumer Services, click OBPY_GET_EXISTING_PARTY

Note:

If you do not find any Oracle Banking Routing Hub configuration named **OBPY_GET_EXISTING_PARTY**, that means, the Oracle Banking Routing Hub configurations are not fully imported. Import the Oracle Banking Routing Hub configuration available in the source folder.

- 2. From the Actions, click on Request Audit.
- 3. Check the latest getPartyMaintenance Oracle Banking Routing Hub call.
- 4. Click on the Request ID and check the Provider Response to check for any errors.



3.4 FLEXCUBE Host Integration Troubleshooting

This topic describes the possible issues that may occur in FLEXCUBE Universal Banking Solution integration.

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

Host Calls Failing

Host call failure may be due to various reasons ranging from improper Oracle Banking Routing Hub configuration to absence of maintenance in the Oracle FLEXCUBE Universal Banking environment. Host call may fail during Business Product Host Product listing, Interest or Charge Details data-segment fetch or during Oracle FLEXCUBE Universal Banking Account creation time.

To find the root issue, follow the below steps:

- 1. Check Oracle Banking Routing Hub Audit Request to see if any Oracle Banking Routing Hub calls to Oracle FLEXCUBE Universal Banking Module has failed.
 - a. On Home screen, click Core Maintenance. Under Core Maintenance, click Routing.
 - b. Under Routing, click Service Consumers. Under Service Consumers, Click RPM_ORIGINATION.
 - c. Under RPM_ORIGINATION, click FCUBS.

Note:

If you do not find any Oracle Banking Routing Hub configuration for Oracle FLEXCUBE Universal Banking, that means, the Oracle Banking Routing Hub configurations are not fully imported. Import the Oracle Banking Routing Hub configuration available in the source folder.

d. From the Actions, click on Request Audit.

Figure 3-12 Service Consumer

Service Consumers			2 ¹⁶ ×
RPM_ORIGINATION > Service Provider	s > FCUBS 14.4		
Implementation			
🔂 Add 🔂 Import search	٩		
Actions Name	Description	Host	Port
ECLIDE Dafault	Default Implementation	whf00alo	7348
Pa: Edit of 1 items) K < 1 >	к		
Delete			
Export			
Request Audit			

e. Check the latest Transformation for which you have performed the operation.

= ORACLE	My Tasks		<u> </u>	(DEFAULTENTITY) fm Bank Futura -Br Mar 26, 2020		A		
Service Consumers	Request Audit	Request Audit (Implementation: FCUBS_Default)						
RPM_ORIGINATIO								
Implementation	Request Id	c	onsumer Service	Provider Service				
🔒 Add 🕹 Imp	Transformation	F	loute	User Id				
Actions Name						Port		
FCUBS_Default	Search					7348		
Page 1 of 1 (1 - 1 -	Request Id	Consumer Service	Provider Service	Transformation	Route			
	0j1zHum	Loan_Simulation	invokeReque st	Loan_Simulation_Transform	Loan_Simulation_I			
	kXbFn6P	Get_Customer_Liability_Detail	s invokeReque st	Get_Customer_Liability_Details_Transform	Get_Customer_Lia			
	myHGmn	Loan_Simulation	invokeReque st	Loan_Simulation_Transform	Loan_Simulation_F			
	ydL11PZ	Loan_Simulation	invokeReque st	Loan_Simulation_Transform	Loan_Simulation_I			

Figure 3-13 Request Audit

- f. Click on the Request ID and check the Provider Response to check for any errors.
- If there is no Oracle Banking Routing Hub call but, still Host call is failing (especially for Account Creation), then failure might be in the workflow task level. In order to debug this scenario, follow the below steps:
 - a. Using the Application Number, call the plato-orch-service search API (API details given below) using Postman.

API Url: http://whf00dtm.in.example.com:7011/plato-orch-service/api/v1/extn/custom-actions/queries/tasks?offset=0&limit=100





Headers:

Content-Type:application/json userId: appId:platoorch branchCode:

entityId:DEFAULTENTITY

b. From the response, search for subWorkflowId.







c. Use this subWorkflowId as parameter in the below API.

API Url: http://whf00dtm.in.example.com:7011/plato-orch-service/api/workflow/ ad194dd5-738f-4ce3-b9b9-2a9f72bb59c6 **Headers**:

Content-Type:application/json

userId:

appId:platoorch

branchCode:

entityId: DEFAULTENTITY

d. The response shows the actual error for HTTP task to fail.

4 Business Error Codes

This topic provides information about business error codes.

The list of overrides/information/error codes that might be faced during usage of the application can be found in the table ERTB_MSGS of the corresponding service schema being operated on.

For example, if you face an error in Business Product maintenance screen and you want to see the error code in the table, you should connect to your Business Product schema and search for that particular error code in the ERTB_MSGS table.

Figure 4-1 Error Codes and Messages

select * from E	RTB_MSGS;		
Query Result X			<u> </u>
P 🕘 🚱 🙀 SQL Fet	ched 50 rows i	n 0. 177 seconds	
1 RPM-BP-CMN-001	ENG	Exception Occurred while Parsing Date	
2 RPM-BPD-001	ENG	Expiry date should be greater than Start date	

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