

Kafka Configuration Guide
Oracle Banking Digital Experience
Patchset Release 22.2.4.0.0

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ORACLE®

Kafka Configuration Guide

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1. Preface

1.1 Intended Audience

This document is intended for the following audience:

- Customers
- Partners

1.2 Documentation Accessibility

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

1.3 Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit

<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit

<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

1.4 Structure

This manual is organized into the following categories:

Preface gives information on the intended audience. It also describes the overall structure of the User Manual.

The subsequent chapters describes following details:

- Introduction
- Preferences & Database
- Configuration / Installation.

1.5 Related Information Sources

For more information on Oracle Banking Digital Experience Patchset Release 22.2.4.0.0, refer to the following documents:

- Oracle Banking Digital Experience Installation Manuals

2. Context

This document contains step to configure kafka notifications for VAM/LM event in the system.

Below JMS changes will be required –

1. Create NotificationServer under JMS Servers.

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area is titled "Summary of JMS Servers". Below the title, there is a table with the following columns: Name, Persistent Store, Target, Current Target, and Health. The table contains 11 rows of server information. The "NotificationServer" row is highlighted in blue. The "Health" column for all servers shows "OK".

Name	Persistent Store	Target	Current Target	Health
AccessJMSServer	WLS_JMS_ACCESS_PS	obdc_cluster	obdc_cluster	OK
AuditJMSServer	WLS_JMS_AUDIT_PS	obdc_cluster	obdc_cluster	OK
ExtSystemReceiver	WLS_JMS_EXTSYSRECEIVER_PS	obdc_cluster	obdc_cluster	OK
ExtSystemSender	WLS_JMS_EXTSYSSENDER_PS	obdc_cluster	obdc_cluster	OK
FileQueueJMSServer	WLS_JMS_FILEQUEUE_PS	obdc_server1	obdc_server1	OK
SOJMSServer	WLS_JMS_PS	obdc_cluster	obdc_cluster	OK
NotificationServer	WLS_JMS_NOTIFICATION_PS	obdc_server1	obdc_server1	OK
ReportsJMSServer	WLS_JMS_REPORT_PS	obdc_cluster	obdc_cluster	OK
UBJMSNotificationServer	WLS_JMS_FCDB_PS	obdc_server1	obdc_server1	OK

2. Create NotificationServer Module under JMS Modules.

Create below destinations

Name	Type	Description
NOTIFICATION_TOPIC	Topic	Local Notification Topic where message will be routed.
NotificationTCF	Topic Connection Factory	

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area is titled "Summary of JMS Modules". Below the title, there is a table with the following columns: Name and Type. The table contains 10 rows of module information. The "NotificationServer" row is highlighted in blue.

Name	Type
AccessJMSModule	JMSSystemResource
AuditJMSServer	JMSSystemResource
ExtSystemReceiverQCF	JMSSystemResource
ExtSystemSender	JMSSystemResource
FileQueueJMS	JMSSystemResource
SOJMS	JMSSystemResource
HostSystemModule	JMSSystemModule
JPA_JMS	JMSSystemResource
NotificationServer	JMSSystemResource
ReportsJMSModule	JMSSystemResource

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area displays the configuration for the NotificationServer. The configuration page includes a summary table of resources:

Name	Type	JMDE Name	Subdeployment	Targets
NotificationOCF	Connection Factory	NotificationOCF	Default Targeting	obdx_server1
NotificationTCF	Connection Factory	NotificationTCF	Default Targeting	obdx_server1
NOTIFICATION_QUEUE	Uniform Distributed Queue	NOTIFICATION_QUEUE	NotificationSD	NotificationServer
NOTIFICATION_TOPIC	Uniform Distributed Topic	NOTIFICATION_TOPIC	NotificationSD	NotificationServer
UBSNotificationTCF	Connection Factory	UBSNotificationTCF	Default Targeting	obdx_server1
UBS_NOTIFICATION_TOPIC	Uniform Distributed Topic	UBS_NOTIFICATION_TOPIC	NotificationSD	NotificationServer

3. Kafka properties changes

Below changes are required to point to correct Kafka config. Open war in 7zip tool and go to digx-kafkanotification.war\WEB-INF\lib\com.ofss.extsystem.kafka.notification-22.X.X.0-SNAPSHOT.jar\ folder. We have to make changes in ListenerConfig.properties as shown below.

There are separate properties for LM and VAM. In case of multiple entity setup the target.unit property can be changes to new entity and same war can be deployed entity times.

The screenshot shows a file explorer window displaying the contents of the folder `s:\digx-kafkanotification.war\WEB-INF\lib\com.ofss.extsystem.kafka.notification-22.2.2.0.0-SNAPSHOT.jar`. The folder contains the following files:

Name	Size	Packed Si...	Modi
META-INF	234	118	2023
com	242 595	80 483	2023
avro	1 389	425	2023
ListenerConfig.properties	3 349	739	2023

```

ListenerConfig.properties
1 kafka.vam.bootstrap.servers=100.76.149.218:9093
2 #kafka.vam.configuration.ssl.truststore.location=C:/Users/rplopes/Documents/work/documents/sprint/accountaccess
  /kafka/KafkaClientTrustStore.jks
3 kafka.vam.configuration.ssl.truststore.location=/scratch/app/domain/obdx_domain/KafkaClientTrustStore.jks
4 kafka.vam.configuration.ssl.truststore.password=orcl@123
5 kafka.vam.consumer.group-id=obdx-vam-auto-map-group
6 kafka.vam.consumer.topic.name=vam.virtualaccountnotification
7 kafka.vam.configuration.security.protocol=SASL_SSL
8 kafka.vam.configuration.sasl.mechanism=SCRAM-SHA-256
9 kafka.vam.properties.sasl.jaas.config.username=obvam
10 kafka.vam.properties.sasl.jaas.config.password=obvam-secret
11 kafka.vam.properties.auto.offset.reset=latest
12 kafka.vam.properties.auto.commit.interval.ms=1000
13 kafka.vam.properties.session.timeout.ms=30000
14 kafka.vam.properties.enable.auto.commit=false
15 kafka.vam.client-id=obdx
16 kafka.vam.properties.poll.time.ms=100
17 kafka.enable.vam.config=true
18
19 kafka.lm.bootstrap.servers=100.76.149.218:9093
20 #kafka.lm.configuration.ssl.truststore.location=C:/Users/rplopes/Documents/work/documents/sprint/accountaccess/
  kafka/OBLMclientTrust_142.jks
21 kafka.lm.configuration.ssl.truststore.location=/scratch/app/domain/obdx_domain/OBLMclientTrust_142.jks
22 kafka.lm.configuration.ssl.truststore.password=orcl@123
23 kafka.lm.consumer.group-id=obdx-lm-auto-map-group
24 kafka.lm.consumer.topic.name=lm.accountnotification
25 kafka.lm.configuration.security.protocol=SASL_SSL
26 kafka.lm.configuration.sasl.mechanism=SCRAM-SHA-256
27 kafka.lm.properties.sasl.jaas.config.username=alice
28 kafka.lm.properties.sasl.jaas.config.password=alice-secret
29 kafka.lm.properties.auto.offset.reset=latest
30 kafka.lm.properties.auto.commit.interval.ms=1000
31 kafka.lm.properties.session.timeout.ms=30000
32 kafka.lm.properties.enable.auto.commit=false
33 kafka.lm.properties.poll.time.ms=100
34 kafka.enable.lm.config=false
35
36 kafka.ver.bootstrap.servers=100.76.149.218:9093
37 #kafka.ver.configuration.ssl.truststore.location=C:/Users/rplopes/Documents/work/documents/sprint/accountaccess
  /kafka/KafkaClientTrustStore.jks
38 #kafka.ver.configuration.ssl.truststore.location=/scratch/obdx/domains/KafkaClientTrustStore.jks
39 kafka.ver.configuration.ssl.truststore.location=/scratch/app/obdx/domains/obdx_domain/KafkaClientTrustStore.jks
40 kafka.ver.configuration.ssl.truststore.password=orcl@123
41 kafka.ver.consumer.group-id=obdx-ver-auto-map-group
length: 3,349 lines: 61 Ln: 43 Col: 33 Pos: 2,526 Windows (CR LF) UTF-8 INS

```

4. Connector changes

This is optional step. If we don't want to keep passwords in above properties file, same can be added to obdx connector resource adapter.

Create below connectors

1. ra/DIGXConnectorOBLM_KAFKA_JAAS
2. ra/DIGXConnectorOBLM_KAFKA_SSL
3. ra/DIGXConnectorOBVAM_KAFKA_JAAS
4. ra/DIGXConnectorOBVAM_KAFKA_SSL

<input type="checkbox"/>	ra/DIGXConnectorOBLM_KAFKA_JAAS	javax.resource.cci.ConnectionFactory
<input type="checkbox"/>	ra/DIGXConnectorOBLM_KAFKA_SSL	javax.resource.cci.ConnectionFactory
<input type="checkbox"/>	ra/DIGXConnectorOBSCF	javax.resource.cci.ConnectionFactory
<input type="checkbox"/>	ra/DIGXConnectorOBTFPM_14.3	javax.resource.cci.ConnectionFactory
<input type="checkbox"/>	ra/DIGXConnectorOBVAM	javax.resource.cci.ConnectionFactory
<input type="checkbox"/>	ra/DIGXConnectorOBVAM_KAFKA_JAAS	javax.resource.cci.ConnectionFactory
<input type="checkbox"/>	ra/DIGXConnectorOBVAM_KAFKA_SSL	javax.resource.cci.ConnectionFactory
<input type="checkbox"/>	ra/DIGXConnectorREWARDS	javax.resource.cci.ConnectionFactory

- i. EIS User Name - OBVAM_KAFKA_SSL, EIS User Password - <<password here>>
- ii. EIS User Name - OBVAM_KAFKA_JAAS, EIS User Password - <<password here>>
- iii. EIS User Name - OBLM_KAFKA_JAAS, EIS User Password - <<password here>>

iv. EIS User Name - OBLM_KAFKA_SSL, EIS User Password - <<password here>>

<input type="checkbox"/>	Default	OBVAM_KAFKA_SSL	ra/DIGXConnectorOBVAM_KAFKA_SSL
<input type="checkbox"/>	Default	OBVAM_KAFKA_JAAS	ra/DIGXConnectorOBVAM_KAFKA_JAAS
<input type="checkbox"/>	Default	OBLM_KAFKA_JAAS	ra/DIGXConnectorOBLM_KAFKA_JAAS
<input type="checkbox"/>	Default	OBLM_KAFKA_SSL	ra/DIGXConnectorOBLM_KAFKA_SSL

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