

Kafka Configuration Guide
Oracle Banking APIs
Patchset Release 22.2.1.0.0

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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 APIs Patchset Release 22.2.1.0.0, refer to the following documents:

- Oracle Banking APIs 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 interface. 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
FileInboxJMSServer	WLS_JMS_FILEUPLOAD_PS	obdc_Cluster	obdc_Cluster	OK
SOJMSServer	WLS_JMS_PS	obdc_server1	obdc_server1	OK
JPAJMSServer	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_FCDL_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 interface. 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
FileInboxJMS	JMSSystemResource
SOJMS	JMSSystemResource
HostSystemModule	JMSSystemModule
JPA_JMS	JMSSystemResource
NotificationServer	JMSSystemResource
ReportsJMSModule	JMSSystemResource

The screenshot shows the Oracle WebLogic Server Administration Console. The main window displays the configuration for the 'NotificationServer' JMS system module. The 'Summary of Resources' table is as follows:

Name	Type	JMDF 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-22.1.0.0.0-SNAPSHOT.jar\ folder. We have to make changes in application.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 with the following file list:

Name	Size	Package
META-INF	25	
com	138 442	49
avro	1 389	
application.properties	2 368	

```

1 # LM Kafka properties
2 spring.kafka.lm.bootstrap-servers=100.76.136.57:9093
3 spring.kafka.lm.configuration.ssl.truststore.location=C:/Users/rplopes/Documents/work/documents/sprint/accountaccess/kafka/OBLMClientTrust_142.jks
4 #spring.kafka.lm.configuration.ssl.truststore.location=/scratch/obdx/domains/OBLMClientTrust_142.jks
5 spring.kafka.lm.configuration.ssl.truststore.password=oracle123
6 spring.kafka.lm.consumer.group-id=vamlm-charges-services-grp
7 spring.kafka.lm.consumer.topic.name=lm.accountnotification
8 spring.kafka.lm.configuration.security.protocol=SASL_SSL
9 spring.kafka.lm.configuration.security.mechanism=SCRAM-SHA-256
10 spring.kafka.lm.properties.sasl.jaas.config.username=alice
11 spring.kafka.lm.properties.sasl.jaas.config.password=alice-secret
12 spring.kafka.lm.properties.auto.offset.reset=earliest
13 spring.kafka.lm.properties.auto.commit.interval.ms=1000
14 spring.kafka.lm.properties.session.timeout.ms=30000
15 spring.kafka.lm.properties.enable.auto.commit=false
16
17 # VAM Kafka properties
18 spring.kafka.vam.bootstrap-servers=100.76.142.18:9093
19 spring.kafka.vam.configuration.ssl.truststore.location=C:/Users/rplopes/Documents/work/documents/sprint/accountaccess/kafka/KafkaClientTrustStore.jks
20 #spring.kafka.vam.configuration.ssl.truststore.location=/scratch/obdx/domains/KafkaClientTrustStore.jks
21 spring.kafka.vam.configuration.ssl.truststore.password=orcl123
22 spring.kafka.vam.consumer.group-id=obvam-projection-services-grp
23 spring.kafka.vam.consumer.topic.name=vam.virtualaccountnotification
24 spring.kafka.vam.configuration.security.protocol=SASL_SSL
25 spring.kafka.vam.configuration.security.mechanism=SCRAM-SHA-512
26 spring.kafka.vam.properties.sasl.jaas.config.username=obvam
27 spring.kafka.vam.properties.sasl.jaas.config.password=obvam-secret
28 spring.kafka.vam.properties.auto.offset.reset=earliest
29 spring.kafka.vam.properties.auto.commit.interval.ms=1000
30 spring.kafka.vam.properties.session.timeout.ms=30000
31 spring.kafka.vam.properties.enable.auto.commit=false
32
33 # Queue properties
34 spring.weblogic.context.factory=weblogic.jndi.WLInitialContextFactory
35 spring.weblogic.notification.topic.factory=NotificationTCF
36 spring.weblogic.notification.topic=NOTIFICATION_TOPIC
37
38 target.unit=OBDX_BU

```

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/DIGXConnectorOBTFFPM_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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