

Kafka Configuration Guide  
Oracle Banking APIs  
Patchset Release 22.2.3.0.0

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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 22.2.3.0.0, 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.

**Summary of JMS Servers**

JMS servers act as management containers for the queues and topics in JMS modules that are targeted to them. This page summarizes the JMS servers that have been created in the current WebLogic Server domain.

Customize this table

JMS Servers (Filtered - More Columns Exist)

Click the Lock & Edit button in the Change Center to activate all the buttons on this page.

Name	Persistent Store	Target	Current Target	Health
AccessJMSServer	WLS_JMS_ACCESS_PS	obdc_Cluster	obdc_Cluster	OK
AuthJMSServer	WLS_JMS_AUTH_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
FileInletJMSServer	WLS_JMS_FILEUPLOAD_PS	obdc_Cluster	obdc_Cluster	OK
SOJMSServer		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_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	

**Summary of JMS Modules**

JMS system resources are configured and stored as modules similar to standard Java EE modules. Such resources include queues, topics, connection factories, templates, destination keys, quotas, distributed queues, distributed topics, foreign servers, and JMS store-and-forward (SAF) parameters. You can administratively configure and manage JMS system modules as global system resources. This page summarizes the JMS system modules that have been created for the domain.

Customize this table

JMS Modules

Click the Lock & Edit button in the Change Center to activate all the buttons on this page.

Name	Type
AccessJMSModule	JMSSystemResource
AuthJMSServer	JMSSystemResource
ExtSystemReceiverQCF	JMSSystemResource
ExtSystemSender	JMSSystemResource
FileInletJMS	JMSSystemResource
SOJMS	JMSSystemResource
HostSystemModule	JMSSystemResource
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	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 Windows 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 file list is as follows:

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 - &lt;&lt;password here&gt;&gt;

<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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