Kafka Configuration Guide Oracle Banking Digital Experience Patchset Release 22.2.2.0.0

Part No. F72987-01

December 2023

# ORACLE

Kafka Configuration Guide December 2023

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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 <a href="http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc">http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc</a>.

## 1.3 Access to Oracle Support

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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 <u>Related Information Sources</u>

For more information on Oracle Banking Digital Experience Patchset Release 22.2.2.0.0, 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.

inge Center	🏦 Hame Lag Out Preferences 🔛 Record Heip 📃 🔍					
w changes and restarts		me >Summary of Servers >Summary of JHS Server	5			
k the Lock & Edit button to modify, add or ete items in this domain.	Sum	mary of JHS Servers				
Lock & Edit		45 servers act as management containers for the	queues and topics in JMS modules that are targeted to them.			
Release Configuration This page summarizes the JHS servers that have been created in the current WebLopic Server domain.						
nain Structure						
_domain 🔔	<b>₽</b> 0	ustomize this table				
Environment Deployments	эн	IS Servers (Filtered - More Columns Exist)				
Services	Ch	ick the Lock & Edit button in the Change Center	to activate all the buttons on this page.			
Hessaging		vew Delete				Showing 1 to 10 of 11 Previous   New
		Name 🊕	Persistent Store	Target	Current Target	Health
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Data Sources	C	AuditIMSServer	WLS_JMS_AUDIT_PS	obdx_Cluster	obdx_Cluster	📌 ОК
Foreign JNDE Providers	0	ExtSystemReceiver	WLS_3MS_EXTSYSRECEIVER_PS	obdx_Cluster	obdx_Cluster	ᢞ ок
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onfigure JMS servers	C	GoffmsServer		obdx_server1	obdx_server1	ᢞ 0K
Configure 3MS system modules	0	JPAJMSServer	WLS_JPA_PS	ob.dx_Cluster	obdx_Cluster	ᢞ ок
	C	NotificationServer	WLS_3MS_NOTIFICATION_PS	obdx_server1	obdx_server1	✓ 0K
tem Status 🔅	0	ReportsJMSServer	WLS_JMS_REPORT_PS	obdx_Cluster	obdx_Cluster	📌 ок
ith of Running Servers as of 5:58 AM	C	UBSNetificationServer	WLS_JMS_FCDB_PS	obdx_server1	obdx_server1	ᢞ ок
Failed (0) Critical (0) Overloaded (0) Warning (0)	D	Delete				Showing 1 to 10 of 11 Previous   No

2. Create NotificationServer Module under JMS Modules.

#### Create below destinations

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

	ORACLE WebLogic Server Administration Console 14.1.1						
Change Center	1	🚹 Home Lag Out Preferences 🔝 Record Help	Q	Welcome, weblogic Connected to: obdx_domain			
View changes and restarts		Hune >Summary of Servers >Summary of 3HS Servers >Summary of 3HS Hodules					
Click the Lock & Edit button to modify, add or delete items in this domain.	Su	ummary of JMS Modules					
Lock & Edit Release Configuration Domain Structure		380 genes reserves ar conference and started an analytic entries to standard task En transcess include convex, topics, connection factories, templates, destination keys, costa, databated queues, databated topics, forego servers, and 385 store-and-forward (S4F) symmetres: You conversion the 385 system modules that have been created for this domain.					
obdx_domain B-Environment		Customize this table					
Deployments		JHS Modules					
-Messaging		Click the Lock & Edit button in the Change Center to	activate all the buttons on this page.				
-JMS Servers Store-and-Forward Agents		New Delete		Showing 1 to 10 of 10 Previous   Next			
UMS Modules Path Services		🔲 Name 🙃		Туре			
Bridges     Data Sources		AccessJMSModule		JMSSystemResource			
Persistent Stores		AuditJMSServer		JMSSystemResource			
Foreign JNDI Providers		ExtSystemReceiverQOF		JMSSystemResource			
Now do L	i	ExtSystemSender		JMSSystemResource			
	1.1	FileUpload3MS		JMSSystemResource			
Configure JMS system modules     Configure resources for JMS system modules		GciDms		JMSSystemResource			
Compare resources for sets system moustles		HostSystemModule		JMSSystemResource			
System Status		JPA_3MS		3MSSystemResource			
Health of Running Servers as of 5:59 AM		NotificationServer		JMSSystemResource			
Failed (0)	1.1	ReportsJMSModule		JMSSystemResource			
Critical (0) Overloaded (0)		New Delete		Showing 1 to 10 of 10 Previous   Next			
Warning (0) OK (2)	<u> </u>			,			
WebLogic Server Version: 14.1.1.0.0 Copyright (c) 1996,2020, Oracle and/or its affiliates. A Oracle is a registered trademark of Oracle Corporation	All right in and/o	ts reserved. In its affiliates. Other names may be trademarks of their res	pective owners.				



#### Context

hange Center	🏫 Home Log Out Preferences 🔛 Recent Help							
iew changes and restarts	Home >Summary of Servers >Summary of JHS Servers >Summary of JHS Nobiles >NotificationServer							
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slete items in this domain.	Configuration Subdeployments Targets S	ecurity Notes						
Lock & Edit								
Rolease Configuration	This page displays general information about a 3M	This page displays general information about a 3HS system module and its resources. It also allows you to configure new resources and access existing resources.						
main Structure	1							
x_domain 🔺	Name:	NotificationServer	The nar	ne of this JMS system module. More Info,				
Environment Deployments	Descriptor File Name:	jms/notificationserver-jms.xml	The ear	me of the JMS module descriptor file. More Info.				
Services El-Messaging		,						
-Path Services	Customize this table							
B - Bridges     Data Sources     Persistent Stores     Foreign 7402 Providers     Work Contexts	Summary of Resources Click the Lock & Edit button in the Change Center [New] [Detete]	r to activate all the buttons on this page.			Showing 1 to 6 of 6 Previous   Next			
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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.0.0-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.

\$\logstyle="background-color: blue;">\logstyle=background-	ication-22.2.2.0.0-	SNAPSHOT.j	jar∖ ~
Name	Size	Packed Si	Mod
META-INF	234	118	202
com	242 595	80 483	202
⊇avro ZistenerConfig.properties	1 389	425	202



📙 List	enerConfig.properties 🗵					
1	kafka.vam.bootstrap-servers=100.7	6.149.218:9093				
2	#kafka.vam.configuration.ssl.trus	ststore.location	=C:/Users/rplopes/Docume	nts/work/document	ts/sprint/accou	ntaccess
	/kafka/KafkaClientTrustStore.jks					
3	kafka.vam.configuration.ssl.trust	store.location=	/scratch/app/domain/obdx	domain/KafkaClie	entTrustStore.il	ks
4	kafka.vam.configuration.ssl.trust					
5	kafka.vam.consumer.group-id-obdx-					
6	kafka.vam.consumer.topic.name=vam					
7	kafka.vam.configuration.security.					
8	kafka.vam.configuration.security.					
9	kafka.vam.properties.sasl.jaas.co					
10	kafka.vam.properties.sasl.jaas.co					
11	kafka.vam.properties.auto.offset.		Dvam-secret			
12	kafka.vam.properties.auto.commit.		0			
13	kafka.vam.properties.session.time					
14	kafka.vam.properties.enable.auto.	commit=false				
15	kafka.vam.client-id=obdx					
16	kafka.vam.properties.poll.time.ms	s=100				
17	kafka.enable.vam.config=true					
18						
19	kafka.lm.bootstrap-servers=100.76					
20	#kafka.lm.configuration.ssl.trust	store.location=	C:/Users/rplopes/Documen	ts/work/documents	s/sprint/account	taccess/
	kafka/OBLMclientTrust 142.jks					
21	kafka.lm.configuration.ssl.trusts	store.location=/	scratch/app/domain/obdx	domain/OBLMclient	tTrust 142.jks	
22	kafka.lm.configuration.ssl.trusts					
23	kafka.lm.consumer.group-id=obdx-1					
24	kafka.lm.consumer.topic.name=lm.a					
25	kafka.lm.configuration.security.p					
26	kafka.lm.configuration.sasl.mecha					
27	kafka.lm.properties.sasl.jaas.cor					
28	kafka.lm.properties.sasl.jaas.cor					
29	kafka.lm.properties.auto.offset.r		ICe-seciet			
30	kafka.lm.properties.auto.commit.i					
31	kafka.lm.properties.session.timed					
32	kafka.lm.properties.enable.auto.c					
33	kafka.lm.properties.poll.time.ms=	=100				
34	kafka.enable.lm.config=false					
35						
36	kafka.ver.bootstrap-servers=100.7					
37	<pre>#kafka.ver.configuration.ssl.trus /kafka/KafkaClientTrustStore.jks</pre>	ststore.location	=C:/Users/rplopes/Docume	nts/work/document	ts/sprint/accou	ntaccess
38	<pre>#kafka.ver.configuration.ssl.trus</pre>	statore.location	=/scratch/obdx/domains/K	afkaClientTrustS	tore.iks	
39	kafka.ver.configuration.ssl.trust					tore ike
40	kafka.ver.configuration.ssl.trust			S, SSGA_GOMAIN/ NA.	LAGGITOHUTI dS CO	0010.JAS
40	kafka.ver.consumer.group-id=obdx-					
1 41	raira.ver.consumer.group-1d=obdx-	ver-auto-map-dr	Jup			
	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

ra/DIGXConnectorOBLM_ <mark>KAFKA</mark> _JAAS	javax.resource.cci.ConnectionFactory
ra/DIGXConnectorOBLM_KAFKA_SSL	javax.resource.cci.ConnectionFactory
ra/DIGXConnectorOBSCF	javax.resource.cci.ConnectionFactory
ra/DIGXConnectorOBTFPM_14.3	javax.resource.cci.ConnectionFactory
ra/DIGXConnectorOBVAM	javax.resource.cci.ConnectionFactory
ra/DIGXConnectorOBVAM_KAFKA_JAAS	javax.resource.cci.ConnectionFactory
ra/DIGXConnectorOBVAM_KAFKA_SSL	javax.resource.cci.ConnectionFactory
ra/DIGXConnectorREWARDS	javax.resource.cci.ConnectionFactory

- i. EIS User Name OBVAM\_KAFKA\_SSL, EIS User Password <<pre>ressword here>>
- ii. EIS User Name OBVAM\_KAFKA\_JAAS, EIS User Password <<pre>password here>>
- iii. EIS User Name OBLM\_KAFKA\_JAAS, EIS User Password <<pre>password here>>



Default	OBVAM_KAFKA_SSL	ra/DIGXConnectorOBVAM_KAFKA_SSL
Default	OBVAM_KAFKA_JAAS	ra/DIGXConnectorOBVAM_KAFKA_JAAS
Default	OBLM_KAFKA_JAAS	ra/DIGXConnectorOBLM_KAFKA_JAAS
Default	OBLM_KAFKA_SSL	ra/DIGXConnectorOBLM_KAFKA_SSL

#### iv. EIS User Name - OBLM\_KAFKA\_SSL, EIS User Password - << password here>>

#### <u>Home</u>

