# **Oracle Banking APIs**

JMS Configuration Multi Entity Guide

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JMS Configuration Multi Entity Guide December 2018

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## JMS Configuration for external System

	Name
Author	APIs Development team
Current Version	1
Date	

# **Revision History**

Versi on	Updates	Author	Date
Draft	Initial version		

## 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

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

- Objective and Scope
- Steps for JMS Configuration

## 1.5 Related Information Sources

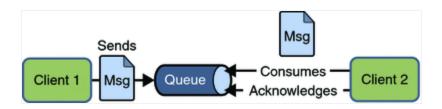
For more information on Oracle Banking APIs Release 18.3.0.0.0, refer to the following documents:

• Oracle Banking APIs Installation Manuals

## 2. Objective and Scope

## 2.1 Background

JMS (Java Message Service) is an API that provides the facility to create, send and read messages. It provides loosely coupled, reliable communication. Messaging enables distributed communication that is loosely coupled. A component sends a message to a destination, and the recipient can retrieve the message from the destination. However, the sender and the receiver do not have to be available at the same time in order to communicate. In fact, the sender does not need to know anything about the receiver; nor does the receiver need to know anything about the sender. The sender and the receiver need to know only which message format and which destination to use.JMS configuration is required to send message (request) to external system and receive processed message (response) from external system.



## 2.2 Objective and Scope

Define a common set of messaging concepts and facilities. The scope of this document is to provide steps to configure foreign server for connecting external system using JNDI provider and configure JMS queue to receive data from external system. Foreign server is used to send message to external system with help of JNDI Initial, JNDI connection url, JNDI connection factory and JNDI destination. To configure JMS receiver queue in web logic we have to create JMS server and JMS module. Where JMS module include creation of JMS connection factory, JMS queue and SubDeployment.

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## 3. JMS Step 1: Create foreign server in a weblogic server

## 3.1 Introduction and Definitions

A Foreign Server represents a JNDI provider that is outside WebLogic server. It contains information that allows a local WebLogic Server instance to reach a remote JNDI provider, thereby allowing for a number of foreign connection factory and destination objects to be defined on one JNDI directory.

#### 3.1.1 Create a JMS Module

- Services > Messaging > JMS Modules
- Select New
- Name: HostSystemModule
- Leave the other options empty
- Targets: obapis\_server
- Press Next
- Leave "Would you like to add resources to this JMS system module" unchecked and press Finish .

	IMS Modules           New         Delete         Showing 1 to 7 of 7         Previous   Nev				
	Name 🚕	Туре	Scope	Domain Partitions	
	AsyncFailureLogJMS	JMSSystemResource	Global		
	AuditJMS	JMSSystemResource	Global		
	EndPointJMSModule	JMSSystemResource	Global		
	extXfaceJMSModule	JMSSystemResource	Global		
	FileUploadJMS	JMSSystemResource	Global		
	HostSystemModule	JMSSystemResource	Global		
	UBSSystemModule	JMSSystemResource	Global		
Ne	w Delete			Showing 1 to 7 of 7 Previous   Next	

#### 3.1.2 Create a foreign Server

- Services > Messaging > JMS Modules
- Select HostSystemModule and press New
- Select Foreign Server and Next
- Name: ForeignServer (Once you create a foreign server, you cannot rename it. Instead, you must delete it and create another one that uses the new name) and Click Next to proceed to the targeting page or click **Finish** to create the foreign server.

Sun	mary of Resources					
Ne	New Delete Showing 1 to 1 of 1 Previous   Next					
	Name 🙈	Туре	JNDI Name	Subdeployment	Targets	
	ForeignServer	Foreign Server	N/A	Default Targeting	obdx_server	
Ne	w Delete			Showir	ng 1 to 1 of 1 Previous   Next	

#### 3.1.3 To configure additional properties for the new foreign server

- Services > Messaging > JMS Modules
- Select HostSystemModule
- Click on ForeignServer
- On the Configuration> General tab
- Enter Following details.
  - JNDI Initial: enter the name of the class that must be instantiated to access the JNDI provider. For example (weblogic.jndi.WLInitialContextFactory)
  - JNDI Connection URL: enter the URL that WebLogic Server uses to contact the JNDI provider. (http://IP:port)
- Click Save.

Configuration Subdeploy	yment Notes	
General Destinations	Connection Factories	
Save		
		contains information that allows WebLogic Server to reach the remote JNDI provider. This way, a ed on one JNDI directory. Use this page to configure a foreign server.
🥂 Name:	ForeignServer	The name of this foreign server. More Info
JNDI Initial Context Facto	weblogic.jndi.WLInitialCont	The name of the class that must be instantiated to access the JNDI provider. This class name depends on the JNDI provider and the vendor that are being used. More Info
đ JNDI Connection URL	http://mum00aoz.in.oracle.com:6003	The URL that WebLogic Server will use to contact the JNDI provider. The yntax of this URL depends on which JNDI provider is being used. For WebLogic JMS, leave this field blank if you are referencing WebLogic JMS objects within the same cluster. More Info
JNDI Properties Credentia	al:	Any Credentials that must be set for the JNDI provider. These Credentials will be part of the properties will be passed directly to the constructor for the JNDI provider's InitialContext class. Note: For secure credential management, use the Credential field. Using the Properties field results in the credential being stored and displayed as originally entered. More

#### 3.1.4 Create foreign connection factories

- Services > Messaging > JMS Modules
- Select HostSystemModule
- Click on ForeignServer
- On the Configuration> **Connection** Factories tab press **New**
- Enter Following details
  - Name: enter a name for the foreign connection factory.
  - Local JNDI Name: specify the name that the remote object will be bound to in the local server's JNDI tree and is used to look up the object on the local server.
  - Remote JNDI Name: specify the name of the remote object that will be looked up in the remote JNDI directory.
- Click Ok.

Setting	gs for Fore	eignCon	nectionFa	actory			
Confi	guration	Notes					
Save							
insta	ance of Wel	bLogic S	erver runn		other server instance and is accessible via a foreign provider, as long as that provic		ote connection factory can be used to refer to another NDI.
街 Na	ame:			ForeignConnectionFactory		The name of	this foreign connection factory. More Info
街 Local JNDI Name:			HostQCF		JNDI tree. Th	at the remote object will be bound to in the local server's his is the name that should be used to look up the object on ver. More Info	
₫ Re	emote JNI	DI Nam	e:	HostQCF		The name of lirectory.	the remote object that will be looked up in the remote JNDI More Info
Setting	is for Fore	ignServ	er				
Config	guration	Subde	oloyment	Notes			
Gener	al Destir	nations	Connec	tion Factories			
anotl This	her instanc	e of Web narizes th	Logic Ser		erver, or a foreign provider, as long as th		. A remote connection factory can be used to refer to ipports JNDI.
			ctories (I	Filtered - More Columns Exist)			
Nev	Delete	9					Showing 1 to 1 of 1 Previous   Next
	Name 🚕				Local JNDI Name		Remote JNDI Name
	ForeignCor	nnection	Factory		HostQCF		HostQCF
Nev	Delete	9					Showing 1 to 1 of 1 Previous   Next

#### 3.1.5 Create foreign destinations

- Services > Messaging > JMS Modules
- Select HostSystemModule
- Click on ForeignServer
- On the Configuration>Destination tab press New
- Enter Following details
  - Name: enter a name for the foreign destination.
  - Local JNDI Name: specify the name that the remote object will be bound to in the local server's JNDI tree and is used to look up the object on the local server.
  - Remote JNDI Name: specify the name of the remote object that will be looked up in the remote JNDI directory.
- Click Ok.

Settings for ForeignDestin	ation	
Configuration Notes		
Save		
	c or queue) is a destination on a remote server. When this destination is looked up d the object will be returned from that directory. a foreign destination.	o on the local server, a look-up will be performed automatically on the
街 Name:	ForeignDestination	The name of this foreign destination. More Info
🛱 Local JNDI Name:	HostProcess	The name that the remote object will be bound to in the local server's JNDI tree. This is the name that should be used to look up the object on the local server. More Info
😰 Remote JNDI Name:	HostProcess	The name of the remote object that will be looked up in the remote JNDI directory. More Info

Configur	ration Subdeplo	yment	Notes						
General	Destinations	Connectio	on Factori	es					
JNDI dii This pag Custon	rectory, and the ob	ject will b	e returned	l from that di		stination is looked up on the loo	cal server, a look-up will be ;	performed automatically	y on the remote
New	Delete							Showing 1 to 1 of 1	Previous   Next
🔲 Na	me 🗠				Local JNDI Name		Remote JNDI Name		
E Foi	reignDestination				HostProcess		HostProcess		
New	Delete							Showing 1 to 1 of 1	Previous   Next

<u>Home</u>

# 4. JMS Step 2 - How to Create a Simple JMS Queue in Weblogic Server

## 4.1 Introduction and Definitions

A JMS queue in Weblogic Server is associated with a number of additional resources:

#### JMS Server

A JMS server acts as a management container for resources within JMS modules. Some of its responsibilities include the maintenance of persistence and state of messages and subscribers. A JMS server is required in order to create a JMS module.

#### JMS Module

A JMS module is a definition which contains JMS resources such as queues and topics. A JMS module is required in order to create a JMS queue.

#### Subdeployment

JMS modules are targeted to one or more WLS instances or a cluster. Resources within a JMS module, such as queues and topics are also targeted to a JMS server or WLS server instances. A subdeployment is a grouping of targets. It is also known as advanced targeting.

#### **Connection Factory**

A connection factory is a resource that enables JMS clients to create connections to JMS destinations.

#### JMS Queue

A JMS queue (as opposed to a JMS topic) is a point-to-point destination type. A message is written to a specific queue or received from a specific queue.

Object Name	Туре	JNDI Name
ExtXfaceJMSServer	JMS Server	
extXfaceJMSModule	JMS Module	
extXfaceSubdeployment	Subdeployment	
ReceiverQCF	Connection Factory	
ReceiverQueue	JMS Queue	

The objects used in this example are:

1. Configuration Steps-The following steps are done in the WebLogic Server Console, beginning with the left-hand navigation menu.

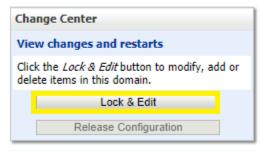
#### Create Persistent store-

- Here you have to Create a new persistent store (Once the persistent store is created that can be used for both sender and receiver serever. Hence there is no nedd to create a different persistent store for two different servers.) Hence Before creating a JMS server you need to create the Persistent store if its not already created. Follow the steps shown below for creating a persistent store.
- Select Services > Persistent Stores.

Domain Structure	
obdx_domain	*
Domain Partitions	
Environment	
Deployments	
-Services	
Data Sources	
Persistent Stores	
Foreign JNDI Providers	
Work Contexts	
XML Registries	
XML Entity Caches	
jCOM	
Mail Consistent	*

First Select Lock & Edit as shown-

#### ORACLE WebLogic Server Admi



• Select new and the select create FileStore from the list as shown below-

	sistent Stores					Showing 1 to 6 of 6 Previous   Nex
-	eate FileStore		Туре	Target	Scope	Domain Partitions
	Create ReplicatedStore (Exalogic)		FileStore	obdx_server1	Global	
			FileStore	obdx_server1	Global	
	EndPointFS		FileStore	obdx_server1	Global	
	FileUploadFileStore		FileStore	obdx_server1	Global	
	mds-owsm		FileStore		Global	
ReportsFileStore			FileStore	obdx_server1	Global	

- Give the name of the filestore. Example- EndPointFS and the Directory location, example /scratch/obapis/wls. Directory location field is optional and the path given above is just an example, it may vary according to the server.
- Click Next.
- Select the target server as shown in following snapshot-

ORACLE WebLogic Server Adm	inistration Console 12c
Change Center	🟦 Home Log Out Preferences 🗁 Record Help
View changes and restarts	Home >Summary of Services >Summary of Persistent Stores >Summary of Services >Summary of Persistent Stores >EndPointFS >Summary of Persistent Stores
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.  Lock & Edit  Release Configuration	Create a New File Store       Back     Next     Finish     Cancel       JMS File Store Targets
Domain Structure	This page indicates on which WebLogic Server instances or clusters the jms file store is accessible. Only applications that have been deployed to the sele
obdx_domain	When you target all or part of a cluster, the Administration Console initiates a two-phase deployment. In general, such a deployment ensures that if the
+Deployments	Select a server instance for this file store.
	Target: obdx_server
	Back Next Finish Cancel

• Click Finish.

#### 4.1.1 Create a JMS Server-

Services > Messaging > JMS Servers



#### Select New.

New Delete Showing 1 to 6 of 6 Previous   Nex							
	Name 🚕	Persistent Store	Target	Current Target	Health	Scope	Domain Partitions
	AsyncFailureLogJMSServer	AsyncFailureLogFileStore	obdx_server1	obdx_server1		Global	
	AuditJMSServer	AuditFileStore	obdx_server1	obdx_server1		Global	
	ExtxfaceReceiverServer	EndPointFS	obdx_server1	obdx_server1		Global	
	ExtxfaceSenderServer	EndPointFS	obdx_server1	obdx_server1		Global	
	FileUploadJMSServer	FileUploadFileStore	obdx_server1	obdx_server1		Global	
	ReportsJMSServer	ReportsFileStore	obdx_server1	obdx_server1		Global	
Ne			obal_purver1	000007011			ving 1 to 6 of 6 Previous

- Name: Give name as for example-ExtxfaceReceiverServer.
- After naming the server **Click next** as shown in following example screenshot.

Create a New JMS Server	
Back Next Finish Car	ncel
JMS Server Properties	
The following properties will be * Indicates required fields	used to identify your new JMS Server.
What would you like to name you	ur new JMS server?
🦺 * Name:	ExtxfaceReceiverServer
Would you like this new JMS serv	ver to be restricted to a specific resource group template or resource group ?
Scope:	Global •
Back Next Finish Car	ncel

- **Persistent Store**: Select the name Persistent store from the dropdown list which was created in the previous step. Example-EndPointFS.
- Click Next.

Create a New JMS Server			
Back Next Finish Cancel			
Select Persistent Store			
Specify a persistent store for the new	JMS server.		
Persistent Store:	EndPointFS	Create a New Store	
Back Next Finish Cancel			

- **Target**: Target should Point to the **Weblogic server cluster** as in this case target is set to **obapis\_server1** cluster. (Or any other available cluster).
- Click Finish.

Create a New JMS Server				
Back Next Finish	Cancel			
Select targets				
Select the server instance o	r migratable target on which	you would like to deploy th	is JMS server.	
Target:	obdx_server1	Ŧ		
Back Next Finish	Cancel			

#### The JMS server should now be visible in the list.

	Servers (Filtered - More Colu the Lock & Edit button in the Cl	nange Center to activate all the butto	ns on this page.				
Ne	Delete					Shov	ving 1 to 6 of 6 Previous   N
	Name 🖚	Persistent Store	Target	Current Target	Health	Scope	Domain Partitions
	AsyncFailureLogJMSServer	AsyncFailureLogFileStore	obdx_server1	obdx_server1		Global	
	AuditJMSServer	AuditFileStore	obdx_server1	obdx_server1		Global	
	ExtxfaceReceiverServer	EndPointFS	obdx_server1	obdx_server1		Global	
	ExtxfaceSenderServer	EndPointFS	obdx_server1	obdx_server1		Global	
	FileUploadJMSServer	FileUploadFileStore	obdx_server1	obdx_server1		Global	
	ReportsJMSServer	ReportsFileStore	obdx_server1	obdx_server1		Global	
Ne	w Delete					Shov	ving 1 to 6 of 6 Previous   N

#### 4.1.2 Create a JMS Module

• Services > Messaging > JMS Modules.

Domain Structure
obdx_domain 🔺
🕂 -Domain Partitions
🕂 -Environment
Deployments
🖻 - Services
₽-Messaging
JMS Servers
Store-and-Forward Agents
JMS Modules
Path Services
⊞-Bridges
Data Sources
Persistent Stores
Landard BIDT Desident

#### • Select New.

New Delete Showing 1 to 9 of 9 Previous New				
	Name 🚕	Туре	Scope	Domain Partitions
	AsyncFailureLogJMS	JMSSystemResource	Global	
	AuditJMS	JMSSystemResource	Global	
	ExtxfaceReceiverModule	JMSSystemResource	Global	
	ExtxfaceReceiverModule2	JMSSystemResource	Global	
	ExtxfaceSenderModule	JMSSystemResource	Global	
	ExtxfaceSenderModule2	JMSSystemResource	Global	
	FileUploadJMS	JMSSystemResource	Global	
	ReportsJMSModule	JMSSystemResource	Global	
	UBSSystemModule	JMSSystemResource	Global	

- Name: Provide name for JMS Module.
- Leave the other options empty.
- Click Next.

What would you like to name your S	/stem Module?
* Name:	ExtxfaceReceiverModule
Would you like this new JMS System	Module to be restricted to a specific resource group template or resource group ?
Scope:	Global •
What would you like to name the des	criptor file name? If you do not provide a name, a default will be assigned.
Descriptor File Name:	
Where would like to place the descrip	tor for this System Module, relative to the jms configuration sub-directory of your domain?
Location In Domain:	
Back Next Finish Cancel	

- Targets: **Obapis\_Cluster** (or choose any other clusters available).
- Press Next.

Targets :	
Servers	
AdminServer	
Clusters	
<ul> <li>✓ obdx_cluster</li> <li>● All servers in the cluster</li> <li>● Part of the cluster</li> <li>■ obdx_server1</li> </ul>	
Back Next Finish Cancel	

Leave "Would you like to add resources to this JMS system module" unchecked and press Finish .

Create JMS System Module
Back Next Finish Cancel
Add resources to this JMS system module
Use this page to indicate whether you want to immediately add resources to this JMS system module after it is created. JMS resources include queues, topics, connection factories, and such.
Would you like to add resources to this JMS system module?
Back Next Finish Cancel

MS Modules					
۱e	W Delete			Showing 1 to 9 of 9 Previous   Net	
	Name 🗞	Туре	Scope	Domain Partitions	
D	AsyncFailureLogJMS	JMSSystemResource	Global		
)	AuditJMS	JMSSystemResource	Global		
D	ExtxfaceReceiverModule	JMSSystemResource	Global		
D	ExtxfaceReceiverModule2	JMSSystemResource	Global		
D	ExtxfaceSenderModule	JMSSystemResource	Global		
D	ExtxfaceSenderModule2	JMSSystemResource	Global		
)	FileUploadJMS	JMSSystemResource	Global		
	ReportsJMSModule	JMSSystemResource	Global		
D	UBSSystemModule	JMSSystemResource	Global		

#### 4.1.3 Create a SubDeployment

A subdeployment is not necessary for the JMS queue to work, but it allows you to easily target subcomponents of the JMS module to a single target or group of targets. We will use the subdeployment in this example to target the following connection factory and JMS queue to the JMS server we created earlier.

- Services > Messaging > JMS Modules.
- Select ExtxfaceReceiverModule.

	Modules			
le	w Delete			Showing 1 to 9 of 9 Previous   Ne
	Name 🙈	Туре	Scope	Domain Partitions
)	AsyncFailureLogJMS	JMSSystemResource	Global	
)	AuditJMS	JMSSystemResource	Global	
]	ExtxfaceReceiverModule	JMSSystemResource	Global	
	ExtxfaceReceiverModule2	JMSSystemResource	Global	
)	ExtxfaceSenderModule	JMSSystemResource	Global	
)	ExtxfaceSenderModule2	JMSSystemResource	Global	
)	FileUploadJMS	JMSSystemResource	Global	
)	ReportsJMSModule	JMSSystemResource	Global	
]	UBSSystemModule	JMSSystemResource	Global	

• Select the **Subdeployments** tab and click **New.** 

Settings for ExtxfaceReceiverModule							
Configuration	Configuration Subdeployments Targets Security Notes						
This page displays subdeployments created for a JMS system module. A subdeployment is a mechanism by which JMS module resources (such as queues, topics, and connection factories) are grouped and targeted to a server resource (such as JMS servers, server instances, or cluster).							
Customize t	Customize this table						
Subdeployme	ents						
New Dele	New Delete Showing 1 to 1 of 1 Previous Next						
🔲 Name 🖉	\$			I	Resources	Targets	
Extxfacel	ReceiverSubDep			E	xtxfaceReceiverQueue	ExtxfaceReceiverServer	
New Dele	te					Showing 1 to 1 of 1 Previous   Next	

- Subdeployment Name: give subdeployment name. example- ExtxfaceReceiverSubDep
- Press Next.

Create a New Subdeployment		
Back Next Finish Cancel		
Subdeployment Properties		
The following properties will be used to identify your ne * Indicates required fields	ubdeployment.	
* Subdeployment Name:	ExtxfaceReceiverSubDep	
Back Next Finish Cancel		

- Here you can select the target(s) for the subdeployment. You can choose either Servers (i.e. WebLogic managed servers, such as the **obapis\_server**) or JMS Servers such as the JMS Server created earlier. As the purpose of our subdeployment in this example is to target a specific JMS server, we will choose the JMS Server option. Select the <u>ExtxfaceReceiverServer</u> created earlier.
- Press Finish.

Targets	
Please select targets for the Subdeployment	
Clusters	
<ul> <li>obdx_cluster</li> <li>All servers in the cluster</li> <li>Part of the cluster</li> <li>obdx_server1</li> </ul>	
JMS Servers	
AsyncFailureLogJMSServer	
AuditJMSServer	
ExtxfaceReceiverServer	
ExtxfaceSenderServer	
FileUploadJMSServer	
ReportsJMSServer	
Back Next Finish Cancel	

#### 4.1.4 Create a Connection Factory

- Services > Messaging > JMS Modules
- Select ExtxfaceReceiverModule and press New.

	Modules			
Ne	Delete			Showing 1 to 9 of 9 Previous   Ne
	Name 💫	Туре	Scope	Domain Partitions
	AsyncFailureLogJMS	JMSSystemResource	Global	
	AuditJMS	JMSSystemResource	Global	
	ExtxfaceReceiverModule	JMSSystemResource	Global	
	ExtxfaceReceiverModule2	JMSSystemResource	Global	
	ExtxfaceSenderModule	JMSSystemResource	Global	
	ExtxfaceSenderModule2	JMSSystemResource	Global	
	FileUploadJMS	JMSSystemResource	Global	
	ReportsJMSModule	JMSSystemResource	Global	
	UBSSystemModule	JMSSystemResource	Global	

#### Customize this table

New Delete Showing 1 to 2 of 2 Previous   Next					
	Name 🚕	Туре	JNDI Name	Subdeployment	Targets
	ExtxfaceReceiverQCF	Connection Factory	ExtSystemReceiverQCF	Default Targeting	obdx_server1
	ExtxfaceReceiverQueue	Queue	ExtSystemReceiverQueue	ExtxfaceReceiverSubDep	ExtxfaceReceiverServer

#### • Select Connection Factory and click Next.

Create a New JMS System Module Resource				
Back Next Finish Cancel				
Choose the type of resource you want to create.				
Use these pages to create resources in a JMS system module, such as queues, topics, templates, and connection factories.				
Depending on the type of resource you select, you are prompted to enter basic information for creating the resource. For targetable resources, like stand-alone queues and connection factories, distributed queues and topics, foreign servers, and JMS SAF destinations, you can also proceed to targeting pages for selecting appropriate server target can also associate targetable resources with subdeployments, which is an advanced mechanism for grouping JMS module resources and the members to server resources.				
Connection Factory	Defines a set of connection configuration parameters that are used to create connections for JMS clients. More Info			
O Queue	Defines a point-to-point destination type, which are used for asynchronous peer communications. A message delivered to a queue is distributed to only one consumer. More Info			
🔘 Торіс	Defines a publish/subscribe destination type, which are used for asynchronous peer communications. A message delivered to a topic is distributed to all topic consumers. <b>More Info</b>			

- Name: Give name of the connection factory example- ExtxfaceReceiverQCF. JNDI Name: ExtSystemReceiverQCF.
- Click Next.

Create a New JMS System Module Resource					
Back Next Finish Cancel					
Connection Factory Properties					
The following properties will be used to identify your new connection factory. The current module is ExtxfaceReceiverModule. * Indicates required fields					
What would you like to name your new connection factory?					
* Name:	ExtxfaceReceiverQCF				
What JNDI Name would you like to use to look up	What JNDI Name would you like to use to look up your new connection factory?				
JNDI Name:	ExtSystemReceiverQCF				
The Connection Factory Subscription Sharing Polic sharable?	y Subscribers can be used to control which subscribers can access new subscriptions. Should subscriptions created using this factory be				
Subscription Sharing Policy:	Exclusive •				
	one JMS connection can use the same Client ID. Oracle recommends setting the Client ID policy to Unrestricted if sharing durable lient ID policies are always treated as independent subscriptions. What Client ID Policy would you like to use?				
Client ID Policy:	Restricted •				
A connection factory can limit the number of mess	sages that can queued for an asynchronous session. Should this connection factory impose a limit?				
Maximum Messages per Session:	10				

- Select Default Targeting Enabled and Press Finish
- The connection factory should be listed on the following page with **Default Targeting** as Subdeployment and WebLogic cluster as the target.

#### 4.1.5 Create a JMS Queue

- Services > Messaging > JMS Modules
- Select ExtxfaceReceiverModule and Click New.

MS Modules				
Ne	w Delete			Showing 1 to 9 of 9 Previous   Ne
	Name 🙈	Туре	Scope	Domain Partitions
	AsyncFailureLogJMS	JMSSystemResource	Global	
	AuditJMS	JMSSystemResource	Global	
	ExtxfaceReceiverModule	JMSSystemResource	Global	
	ExtxfaceReceiverModule2	JMSSystemResource	Global	
	ExtxfaceSenderModule	JMSSystemResource	Global	
	ExtxfaceSenderModule2	JMSSystemResource	Global	
	FileUploadJMS	JMSSystemResource	Global	
	ReportsJMSModule	JMSSystemResource	Global	
	UBSSystemModule	JMSSystemResource	Global	

un	nmary of Resources				
New Delete Showing 1 to 2 of 2 Previous   Next					
	Name 🚕	Туре	JNDI Name	Subdeployment	Targets
	ExtxfaceReceiverQCF	Connection Factory	ExtSystemReceiverQCF	Default Targeting	obdx_server1
	ExtxfaceReceiverQueue	Queue	ExtSystemReceiverQueue	ExtxfaceReceiverSubDep	ExtxfaceReceiverServer

#### • Select Queue and Click Next.

Back Next Finish Cancel				
Choose the type of resource you want to create.				
Use these pages to create resources in a JMS system module, such as queues, topics, templates, and connect	tion factories.			
Depending on the type of resource you select, you are prompted to enter basic information for creating the resource. For targetable resources, like stand-alone queues and topics, connection factories, distributed queues and topics, foreign servers, and JMS SAF destinations, you can also proceed to targeting pages for selecting appropriate server targets. You can also associate targetable resources with subdeployments, which is an advanced mechanism for grouping JMS module resources and the members to server resources.				
Connection Factory	Defines a set of connection configuration parameters that are used to create connections for JMS clients. More Info			
Queue	Defines a point-to-point destination type, which are used for asynchronous peer communications. A message delivered to a queue is distributed to only one consumer. <b>More Info</b>			
🔘 Торіс	Defines a publish/subscribe destination type, which are used for asynchronous peer communications. A message delivered to a topic is distributed to all topic consumers. More Info			
O Distributed Queue	Defines a set of queues that are distributed on multiple JMS servers, but which are accessible as a single, logical queue to JMS clients. More Info			

- Name: Provide name of the message queue. example- ExtxfaceReceiverQueue. JNDI Name: Provide JNDI name. example- ExtSystemReceiverQueue. Template: None.
- Press Next.

Create a New JMS Syst	em Module Resource				
Back Next Finish Cancel					
JMS Destination Properties					
The following propertie	s will be used to identify your new Queue. The current module is ExtxfaceReceiverModule.				
* Indicates required fields					
* Name:	ExtxfaceReceiverQueue				
JNDI Name:	ExtSystemReceiverQueue				
Template:	None •				
Back Next Finish	Cancel				

- **Subdeployments:** Give the name of the sub-deployment name in which Queue is supposed to be added. **Example-** ExtxfaceReceiverSubDep.
- Select the Target as <u>ExtxfaceReceiverServer</u> Click Finish.

Back Next Finish Cancel	Back Next Finish Cancel				
The following properties will be used to target	The following properties will be used to target your new JMS system module resource				
instance, cluster, or SAF agent. If necessary, you can	Use this page to select a subdeployment to assign this system module resource. A subdeployment is a mechanism by which JMS resources are grouped and targeted to a server instance, cluster, or SAF agent. If necessary, you can create a new subdeployment by clicking the <b>Create a New Subdeployment</b> button. You can also reconfigure subdeployment targets later by using the parent module's subdeployment management page.				
Select the subdeployment you want to use. If you select	Select the subdeployment you want to use. If you select (none), no targeting will occur.				
Subdeployments: ExtxfaceReceiv	erSubDep V Create a New Subdeployment				
What targets do you want to assign to this subdeploym	nent?				
Targets :					
JMS Servers					
AsyncFailureLogJMSServer					
AuditJMSServer					
ExtxfaceReceiverServer					
ExtxfaceSenderServer					
FileUploadJMSServer					
ReportsJMSServer					

The **ReceiverQueue** should be listed on the following page with Sub-deployment as **ExtxfaceReceiverSubDep** and target as **ExtxfaceReceiverServer**.

Customize this table					
Summary of Resources					
New Delete Showing 1 to 2 of 2 Previous   New					
	Name 🙈	Туре	JNDI Name	Subdeployment	Targets
	ExtxfaceReceiverQCF	Connection Factory	ExtSystemReceiverQCF	Default Targeting	obdx_server1
Exts/faceReceiverQueue Queue Exts/sternReceiverQueue Exts/faceReceiverSubDep Exts/faceReceiverServer					
Ne	New Delete Showing 1 to 2 of 2 Previous   Next				

Confirm the resources for the **ExtxfaceReceiverModule**. Using the Domain Structure tree, navigate to Services > Messaging > JMS Modules then select **ExtxfaceReceiverModule** 

obdx_domain          Portionain Partitions             Portionain Partitions           Portionain Partitions             Portionain Partitions           IMS Modules             Possivices           Mew Delete     Showing 1 to 9 of 9 Previous					
		Name 🙈	Туре	Scope	Domain Partitions
Store-and-Forward Agents		AsyncFailureLogJMS	JMSSystemResource	Global	
Path Services		AuditJMS	JMSSystemResource	Global	
Bridges     Data Sources		ExtxfaceReceiverModule	JMSSystemResource	Global	
Persistent Stores		ExtxfaceReceiverModule2	JMSSystemResource	Global	
The second secon		ExtxfaceSenderModule	JMSSystemResource	Global	
ow do I		ExtxfaceSenderModule2	JMSSystemResource	Global	
Configure JMS system modules		FileUploadJMS	JMSSystemResource	Global	
Configure resources for JMS system modules		ReportsJMSModule	JMSSystemResource	Global	
		UBSSystemModule	JMSSystemResource	Global	
ystem Status	Net	N Delete			Showing 1 to 9 of 9 Previous   Nex

#### You should see the following resources-

New Delete Showing 1 to 2 of 2 Previous Next					
140	Delete				Showing 1 to 2 of 2 Previous   Ne.
	Name 🐟	Туре	JNDI Name	Subdeployment	Targets
	ExtxfaceReceiverQCF	Connection Factory	ExtSystemReceiverQCF	Default Targeting	obdx_server1
	ExtxfaceReceiverQueue	Oueue	ExtSystemReceiverQueue	ExtxfaceReceiverSubDep	ExtxfaceReceiverServer

The JMS queue is now complete and can be accessed using the JNDI names

#### ExtSystemReceiverQCF And ExtSystemReceiverQueue..

**Note**: Repeat the above process from the step 4.1 i.e Create File-Store to create the JMS Configuration for Sender module. Separate JMS Server , Module and Queues would get created for Sender.

In case of a multi-entity setup where Third-party entity is not a base entity after Creating the JMS configuration for both the Receiver and sender you have to manually deploy the ExtxfaceSimulatorMDB.ear on weblogic server present in the installebes. After deploying the ExtxfaceSimulatorMDB and restarting the server, check the state of the application by going in **Deployments** wizard on the weblogic server console. If it is not in "Active" state, it needs to be started manually, to do so, follow the steps mentioned below by keeping server in 'Running' state-

• Go into the **Control** tab.

	nistration Console 12c						
Change Center	🚹 Home Log Out Preferences 🔤 Record Help						
View changes and restarts	pes and restarts Home > Summary of Services > Summary of Persistent Stores > Summary of Persistent Stores > EndPointFS > Summary of Persistent Stores > Sum						
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Summary of Deployments Configuration Control Monitoring						
Lock & Edit Release Configuration Domain Structure obdr, domain P: Domain Partitions P: Environment	This page displays the list of Java EE applications and standalone application modules installed to this domain. You can update (redeploy) or delete installed applications and modules from the domain by selecting the checkbox next to the application nam To install a new application or module for deployment to targets in this domain, click <b>Install</b> .	ne and the	1 using the	controls on this pa	ge.		
Deployments     Services     Messaging     Data Sources	Deployments     V Customize this table       Services     Deployments       Deployments     Deployments						
Persistent Stores     Foreign JNDI Providers     Work Contexts	🗌 Name 🏟	State	Health	Туре	Targets		
XML Registries	af. oracle.businesseditor(1.0,12.2.1.0.0)	Active		Library	AdminServer, ExtXface_Server, obdx_server		
jCOM Mail Sessions	aff.oracle.domain(1.0,12.2.1.0.0)	Active		Library	AdminServer, ExtXface_Server, obdx_server		
How do I	adf.oracle.domain.webapp(1.0,12.2.1.0.0)	Active		Library	AdminServer, ExtXface_Server, obdx_server		
Install an enterprise application     Configure an enterprise application	BatchResourceAdapter	Active		Enterprise Application	obdx_server		
Update (redeploy) an enterprise application	a coherence-transaction-rar	Active	🖋 ок	Resource Adapter	AdminServer, ExtXface_Server, obdx_server		
Monitor the modules of an enterprise     application	Be Com.ofss.digx.app.connector	Active	🖋 ок	Enterprise Application	obdx_server		
Deploy EJB modules     Install a Web application	B DMS Application (12.2.1.0.0)	Active	🖋 ок	Web Application	AdminServer, ExtXface_Server, obdx_server		
		Activo	M ov	Enterprise	AdminConver		

#### • From the List of applications select the checkbox before **ExtxfaceSimulatorMDB ear**.

Sumn	mary of Deployments							
Conf	onfiguration Control Monitoring							
You	This page displays the list of Java EE applications and standalone application modules installed to this domain. You can start and stop applications and modules from the domain by selecting the checkbox next to the application name and then using the controls on this page.							
	Start         Start         Start         Showing 1 to 10 of 13         Previous         Next							
	l Name ∻	State	Health	Туре	Targets	Scope	Domain Partitions	
	BatchResourceAdapter	Active		Enterprise Application	obdx_server	Global		
	coherence-transaction-rar	Active	🖋 ОК	Resource Adapter	AdminServer, ExtXface_Server, obdx_server	Global		
	El com.ofss.digx.app.connector	Active	🖋 ОК	Enterprise Application	obdx_server	Global		
	■ DMS Application (12.2.1.0.0)	Active	🖋 ОК	Web Application	AdminServer, ExtXface_Server, obdx_server	Global		
	〕 ⊞ em	Active	🖋 ОК	Enterprise Application	AdminServer	Global		
	ExtxfaceSimulatorMDB	Prepared	🖋 ок	Enterprise Application	obdx_server	Global		
	∃ 🖽 obdx.app.rest.idm	Active	🖋 ок	Enterprise Application	obdx_server	Global		
	🖯 🖽 obdx.app.soap	Active	🖋 ок	Enterprise Application	obdx_server	Global		
	🗄 🖽 opss-rest	Active	🖋 ок	Web Application	AdminServer	Global		
	state-management-provider-memory-rar	Active	🖋 ОК	Resource Adapter	AdminServer, ExtXface_Server, obdx_server	Global		
St	tart v Stop v				Sh	owing 1 to	10 of 13 Previous   Next	

#### • Select the 'Start' dropdown list and from that select option-"Servicing all requests".

S	art v Stop v				Sho	owing 1 to 1
	Name 🗞	State	Health	Туре	Targets	Scope
	BatchResourceAdapter	Active		Enterprise Application	obdx_server	Global
	coherence-transaction-rar	Active	🖋 ок	Resource Adapter	AdminServer, ExtXface_Server, obdx_server	Global
	€ com.ofss.digx.app.connector	Active	🖋 ОК	Enterprise Application	obdx_server	Global
	DMS Application (12.2.1.0.0)	Active	🖋 ок	Web Application	AdminServer, ExtXface_Server, obdx_server	Global
	⊞ em	Active	🖋 ОК	Enterprise Application	AdminServer	Global
	ExtxfaceSimulatorMDB	Prepared	🖋 ок	Enterprise Application	obdx_server	Global
	obdx.app.rest.idm	Active	🖋 ОК	Enterprise Application	obdx_server	Global
	⊞ obdx.app.soap	Active	🖋 ОК	Enterprise Application	obdx_server	Global
	€ opss-rest	Active	🖋 ОК	Web Application	AdminServer	Global
	state-management-provider-memory-rar	Active	🖋 ОК	Resource Adapter	AdminServer, ExtXface_Server, obdx_server	Global
S	art v Stop v				Sho	owing 1 to 1
s	ervicing all requests					
- s	ervicing only administration requests					

**Note**: Whenever a new Entity is created within a setup(i.e multiple third party entities) the following mentioned steps should be followed in order to enable support for MultiEntity.

In order to enable the support for newly created Entity, Sender/Receiver Connection Factories and Queues are needed to be created within a new Sender/Receiver JMS Modules. These modules can be hosted on the same Sender/Receiver JMS server created as per the steps defined in section <u>4.1.1</u>(Create JMS Server) for the earlier Entity.

 Create a new JMS Module by repeating steps given in section <u>4.1.2</u>(Creating JMS Module), on the same JMS server with new names as follows-

	JMS Module Name
Sender JMS Module	ExtxfaceSenderModule2
Receiver JMS Module	ExtxfaceReceiverModule2

 Create a new SubDeployment within both Sender/Receive module created with above step by repeating the procedure given in section <u>4.1.3</u> (Create JMS Subdeployment) with the new name as follows-

	JMS Module Name	SubDeployment Name
Sender JMS Module	ExtxfaceSenderModule2	ExtxfaceReceiverSubDep2
Receiver JMS Module	ExtxfaceReceiverModule2	ExtxfaceSenderSubDep2

 Create Sender/Receiver connection factories within newly created module by following the steps defined in the section <u>4.1.4</u>(Creating Connection Factories), with different names as follows-

	Connection Factory Name	Connection Factory JNDI Name
Sender Connection Factory	ExtxfaceSenderQCF2	ExtSystemSenderQCF2
Receiver Connection Factory	ExtxfaceReceiverQCF2	ExtSystemReceiverQCF2

• Create Sender/Receiver JMS queues within newly created JMS module by repeating the steps given in section <u>4.1.5</u> (Creating JMS Queues), with the new names to the sender/receiver queues as follows-

	JMS Queue Name	JMS Queue JNDI Name
Sender JMS Queue	ExtxfaceSenderQueue2	ExtSystemSenderQueue2

	JMS Queue Name	JMS Queue JNDI Name
Receiver JMS Queue	ExtxfaceReceiverQueue2	ExtSystemReceiverQueue2

After creating the new JMS sender/receiver modules, connection factories and queues by following the above defined steps. Further Redeploy the ExtxfaceSimulatorMDB.ear with the following changes -

 Add new <message-driven> tag in ejb-jar.xml (Path-ExtxfaceSimulatorMDB.ear\com.ofss.digx.extxface.mdb.jar\META-INF\ ejb-jar.xml) as shown below –

<pre><?xml version="1.0" encoding="UTF-8"?> <!-- Copyright (c) 2012, Oracle and/or its affiliates. All rights reserved--> - <ejb-jar <="" pre="" version="3.0" xmlns:ejb="http://java.sun.com/xml/ns/javaee/ejb-jar_3_0.xsd" xsi:schemalocation="http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee/ejb-jar_3_0.xsd"></ejb-jar></pre>
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"> <display-name>com.ofss.digx.extxface.mdb</display-name>
- <enterprise-beans></enterprise-beans>
- <message-driven></message-driven>
<pre><display-name>ExtxfaceSimulatorMDB</display-name></pre>
<ejb-name>ExtxfaceSimulatorMDB</ejb-name>
<ejb-class>com.ofss.digx.extxface.mdb.ExtxfaceSimulatorMDB</ejb-class>
<transaction-type>Bean</transaction-type>
<message-destination-type>javax.jms.Queue</message-destination-type>
- <message-driven></message-driven>
<pre></pre> <pre>&lt;</pre>
<ejb-name>ExtxfaceSimulatorMDB2</ejb-name>
<ejb-class>com.ofss.digx.extxface.mdb.ExtxfaceSimulatorMDB</ejb-class>
<transaction-type>Bean</transaction-type>
<message-destination-type>javax.jms.Queue</message-destination-type>

Fig.1 ExtxfaceSimulatorMDB.ear\com.ofss.digx.extxface.mdb.jar\META-INF\ejb-jar.xml

<message-driven> <display-name>ExtxfaceSimulatorMDB2</display-name> <ejb-name>ExtxfaceSimulatorMDB2</ejb-name> <ejb-class>com.ofss.digx.extxface.mdb.ExtxfaceSimulatorMDB</ejb-class> <transaction-type>Bean</transaction-type> <message-destination-type>javax.jms.Queue</message-destination-type> </message-driven>

**Note**: As Shown in above example the value of the <ejb-class> sub-tag in <message-driven> tag should be same for all the Entities.

 Add new <weblogic-enterprise-bean> configuration tag in weblogic-ejb-jar (Path-ExtxfaceSimulatorMDB.ear\com.ofss.digx.extxface.mdb.jar\META-INF\ weblogic-ejb-jar) as shown below-

< <b>?xml version="1.0" encoding="UTF-8"?&gt;</b> <i (c)="" 2012,="" affiliates.="" all="" and="" copyright="" its="" or="" oracle="" reserved="" rights=""></i>
<pre></pre>
instance" xmlns="http://xmlns.oracle.com/weblogic/weblogic/weblogic/ejb-jar">
- <weblogic-enterprise-bean></weblogic-enterprise-bean>
<ejb-name>ExtxfaceSimulatorMDB</ejb-name>
<pre><dispatch-policy>ExtxfaceWorkManager</dispatch-policy></pre>
< cispatci - poincy > catalace work manager cispatci - poincy - < message-driven-descriptor >
- <pre>- <pre>childrendescriptor / </pre></pre>
<pre></pre> <pre> </pre> <pre></pre>
<max-beans-in-free-pool>100</max-beans-in-free-pool>
<pre></pre> connection-factory-indi-name>ExtSystemSenderQCF/connection-factory-indi-name>
<jms-polling-interval-seconds>1</jms-polling-interval-seconds>
<indi-name>ExtSystemSenderQueue</indi-name>
- <transaction-descriptor></transaction-descriptor>
<trans-timeout-seconds>60</trans-timeout-seconds>
• <weblogic-enterprise-bean></weblogic-enterprise-bean>
<ejb-name>ExtxfaceSimulatorMDB2</ejb-name>
<dispatch-policy>ExtxfaceWorkManager</dispatch-policy>
- <message-driven-descriptor></message-driven-descriptor>
- 00 >
<pre><initial-beans-in-free-pool>10</initial-beans-in-free-pool></pre>
<max-beans-in-free-pool>100</max-beans-in-free-pool>
<pre></pre> destination-jndi-name>ExtSystemSenderQueue2
<connection-factory-jndi-name>ExtSystemSenderQCF2</connection-factory-jndi-name>
<jms-polling-interval-seconds>1</jms-polling-interval-seconds>
<jndi-name>ExtSystemSenderQueue2</jndi-name>
- <transaction-descriptor></transaction-descriptor>
<trans-timeout-seconds>60</trans-timeout-seconds>
<pre>- <run-as-role-assignment></run-as-role-assignment></pre>
<role-name>LookupRole</role-name>
<run-as-principal-name><b>weblogic</b></run-as-principal-name>
- <work-manager></work-manager>
<name>ExtxfaceWorkManager</name>

Fig.2 ExtxfaceSimulatorMDB.ear\com.ofss.digx.extxface.mdb.jar\META-INF\weblogic-ejb-jar.xml

<weblogic-enterprise-bean>

<ejb-name>ExtxfaceSimulatorMDB2</ejb-name>

<dispatch-policy>ExtxfaceWorkManager</dispatch-policy>

```
<message-driven-descriptor>
```

<pool>

<initial-beans-in-free-pool>10</initial-beans-in-free-pool>

<max-beans-in-free-pool>100</max-beans-in-free-pool>

</pool>

<destination-jndi-name>ExtSystemSenderQueue2</destination-jndi-name>

<connection-factory-jndi-name>ExtSystemSenderQCF2</connection-factory-jndi-

name>

<jms-polling-interval-seconds>1</jms-polling-interval-seconds>

</message-driven-descriptor>

<jndi-name>ExtSystemSenderQueue2</jndi-name>

<transaction-descriptor>

<trans-timeout-seconds>60</trans-timeout-seconds>

</transaction-descriptor>

</weblogic-enterprise-bean>

**Note**: <destination-jndi-name> i.e. JNDI name of the JMS sender queue should be same as given while creating the queue. In above example it is- ExtSystemSenderQueue2.

<connection-facory-jndi-name> i.e. connection factory JNDI name should be same as given while creating the new connection factory. In the above example it is- ExtSystemSenderQCF2.

<dispatch-policy> value should be same for all the Entities. i.e., ExtxfaceWorkManager

After Redeploying the ExtraceSimulatorMDB and restarting the server, check the **state** of the application by going in **Deployments** wizard on the weblogic server console. If it is not in "Active" state, it needs to be started manually, to do so, follow the steps mentioned below by keeping server in 'Running' state-

- Go into the **Control** tab.
- From the List of applications select the checkbox before **ExtxfaceSimulatorMDB ear**.
- Select the 'Start' dropdown list and from that select option-"Servicing all requests".

<u>Home</u>