Oracle® Retail Integration Bus

Java Messaging Service Console Guide Release 16.0.21 E86939-01

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Oracle Retail Integration Bus Implementation Guide, Release 16.0.21

E86939-01

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Oracle Retail Integration Bus Java Messaging Service Console Guide, Release 16.0.21

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Preface

The Oracle Retail Integration Bus Java Messaging Service Console Guide provides detailed information that is important when implementing RIB.

Audience

The Implementation Guide is intended for the Oracle Retail Integration Bus application integrators and implementation staff, as well as the retailer's IT personnel.

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Related Documents

For more information, see the following documents in the Oracle Retail Integration Bus documentation set:

- Oracle Retail Integration Bus Implementation Guide
- Oracle Retail Integration Bus Installation Guide
- Oracle Retail Integration Bus Operations Guide
- Oracle Retail Integration Cloud Service Release Notes
- Oracle Retail Integration Cloud Service Action List
- Oracle Retail Integration Cloud Services Administration Guide
- Oracle Retail Integration Bus Hospital Administration Guide
- Oracle Retail Integration Bus Security Guide
- Oracle Retail Integration Bus Support Tools Guide
- Oracle Retail Integration Bus Integration Guide

- Oracle Retail Functional Artifacts Guide
- Oracle Retail Functional Artifact Generator Guide
- Oracle Retail Service-Oriented Architecture Enabler Tool Guide

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- Functional and technical description of the problem (include business impact)
- Detailed step-by-step instructions to re-create
- Exact error message received
- Screen shots of each step you take

Review Patch Documentation

When you install the application for the first time, you install either a base release (for example, 16.0) or a later patch release (for example, 16.0.21). If you are installing the base release and additional patch releases, read the documentation for all releases that have occurred since the base release before you begin installation. Documentation for patch releases can contain critical information related to the base release, as well as information about code changes since the base release.

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ml

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ml

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Conventions

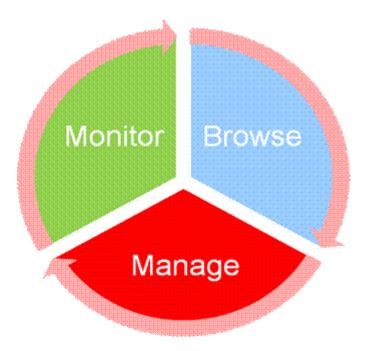
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Convention	Meaning
boldface Boldface type indicates graphical user interface elements with an action, or terms defined in text or the glossary.	
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Introduction

The Oracle Retail Java Messaging Service (JMS) Console is a Web application for monitoring, browsing, and managing the messages that flow through a JMS system. This application is designed for the Oracle Streams Advanced Queuing (AQ) JMS provider.

360º view of AQ JMS



- Monitor provide an unattended view of JMS server.
- Browse discover and drill down into the various aspects of JMS server.
- Manage operate JMS server functionality.

JMS Console is intended for JMS administrators who want to monitor the health of the application and troubleshoot issues related to JMS system. Administrators can monitor the overall health of the system, browse and manage messages of a specific topic/subscriber as well as publish messages for a specific topic.

JMS Console is a very useful application to monitor and manage the AQ JMS regularly. It can troubleshoot critical issues related to any message blockages on the AQ JMS system as well as the Retail Integration Bus (RIB) messaging system which uses AQ as JMS provider.

Install JMS Console application only after the core RIB components have been installed and verified. Oracle recommends that you use JMS Console to monitor, manage, and troubleshoot the RIB AQ system.

Need for a JMS Administration Application

Currently, there are no lightweight JMS administration tools available for the Oracle AQ. Generic JMS tools offer limited functionalities for the AQ JMS. JMS Console intends to fill this gap. Following are some key problem statements that JMS Console is expected to solve:

- JMS servers do not provide visibility into their internal working and state.
- Messages from JMS servers are not visible to the RIB system administrators until business is adversely impacted.
- Third party systems are not able to publish messages to JMS, and in turn are not visible to the RIB, until it is too late.
- Errors in JMS topics are not identified easily.
- You cannot view incorrect messages that exist inside JMS servers.
- Missing current or historical metrics data in messages.
- Expose valuable business data from inside JMS server as services.

Concepts

Following are JMS concepts:

- Oracle Streams AQ JMS
- RIB on AQ JMS

Oracle Streams AQ JMS

Oracle Streams Advanced Queuing (AQ) provides database-integrated message queuing functionality. It is built on Oracle Streams and leverages the functions of the Oracle database so that messages can be stored persistently, propagated between queues on different computers and databases, and transmitted using Oracle Net Services and HTTP(s).

Because Oracle Streams Advanced Queuing is implemented in database tables, all operational benefits of high availability, scalability, and reliability are also applicable to queue data. Standard database features such as recovery, restart, and security are supported by Oracle Streams AQ.

Oracle Streams AQ provides the PL/SQL APIs to interact with the native AQ server inside the Oracle database. The native AQ stream is not the same as the AQ behaving as a JMS server.

Note: For more information, see the Oracle® Database Administrator Guide 12c Release and the Oracle® Streams Advance Queuing User Guide.

RIB on AQ JMS

The RIB is a messaging application that uses Oracle AQ as the messaging infrastructure. RIB configures the native AQ server to behave as a JMS specification compliant JMS server. Therefore, it is strictly prohibited to manipulate RIB's JMS topics and RIB's AQ configurations directly with the AQ PL/SQL or Java API.

Note: For more information, see Chapter 6, JMS Provider Management, in the *Oracle Retail Integration Bus Operations Guide*.

JMS Console Design Principles

JMS Console is built on the following design principles:

- Minimize impact to existing RIB systems
- Work asynchronously wherever possible
- Cache data to improve performance and reduce JMS resource usage
- Collect data without increasing data size on the disk
- Minimize configurations
- Auto discover JMS server internals from existing metadata to avoid human error during configurations
- Expose reusable Service APIs
- Aware of customizing JMS topics
- Simple to install and use

Technical Design

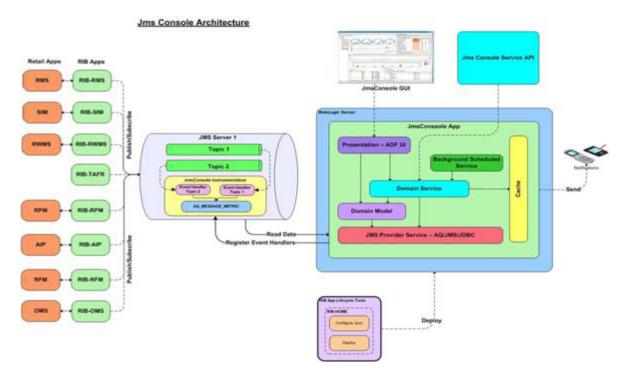
The architecture of JMS Console employs a modular design using separate layers for domain, service, and presentation. The service layers are implemented using stateless session beans using standard JavaEE 7 specifications. The presentation layer uses Oracle Application Development Framework (ADF).

Technical Specifications

JMS Console requires the following technical specifications:

- Oracle WebLogic Server 12c.
- Oracle Database which is compatible with RIB AQ version
- Oracle Java 8 and JavaEE 7

The following diagram describes the console architecture.



The AQ JMS that the application is monitoring is configured as a JDBC data source in the application server. The application dynamically discovers the topics and subscribers configured in the AQ. The application interfaces with the AQ JMS using PL/SQL API's provided by the AQ and uses instrumentation techniques to collect statistics using PL/SQL procedures.

Monitoring data is stored in the same AQ schema that the application is configured to monitor and manage. The PL/SQL package JMS_MONITORING_AGENT is responsible for providing instrumentation hooks and data sourcing capabilities. Monitoring data is stored in the AQ_MESSAGE_METRIC table. The following the table structure definition of the AQ_MESSAGE_METRIC table:

Column Name	Data Type	Nullable?	Description		
TOPIC_NAME	VARCHAR2 (32 BYTE)	No	Name of the Topic		
MONITORING_ START_TIME	DATE	Yes	The time since JMS started to be monitored		
TOTAL_MESSAGE_ PROCESSED_ COUNT	NUMBER	Yes	Total messages processed by this Topic		
MOST_RECENT_ ACTIVITY_TIME	DATE	Yes	Last en-queue/de-queue time on this Topic		
DAILY_MSG_ PROCESSED_ COUNT	NUMBER	Yes	Total messages processed by this Topic since midnight		

Column Name	Data Type	Nullable?	Description
LAST_COUNT_ RESET_TIME DATE	DATE	Yes	Time since the DAILY_MSG_ PROCESSED_ COUNT was last reset

Security

JMS Console uses the authentication mechanism configured in the application server. The application, by itself, does not authenticate the user nor stores user credentials. Authentication is delegated to the WebLogic server. Any authentication provider configured in the WebLogic server can be used for authenticating the users. Valid users belonging to JMSConsoleAdminGroup user group can access the system after successful authentication.

JMSConsole allows you to access all integration messages. Some of these messages may contain financial or business critical information. For more information on which types of messages carry specific types of data, see the Integration Guide. Make sure to allow only trusted employees to access any data your organization classifies as sensitive.

Due to known vulnerabilities, Secure Sockets Layer (SSL) version 3.0 is not considered secure and should be disabled in WebLogic Server (WLS). For secured installations the latest Transport Layer Security (TLS) version is recommended.

Availability and Support Information

JMS Console is available for all RIB AQ customers, independent of RIB version (customers with older versions of RIB can also utilize JMS Console). However JMS Console will not be back ported to 13.x.x RIB but customers should be able to use 16.x.x JMS Console in a 13.x.x AQ JMS environment.

Note: JMS Console is an add-on component and is delivered under RIB's product license. Standard product GA support is available from Oracle Support.

Understanding the Installation Pre-requisites

This chapter describes the procedure you must use to install the ADF 12c runtime and deploy the tool's EAR file. For more information about domain creation and other server related information, see the WebLogic application server documents.

Installation and Setup Instructions

This section describes the installation and setup instructions including the installation pre-requisites, preparing the WebLogic server, creating a WebLogic domain, verifying installation of ADF runtime libraries, extending an existing domain to add ADF runtime libraries, and deploying the EAR file. It also describes guidelines to set up security.

Note: The windows included in the following procedures are for example purposes only. Because these procedures must be followed for each application, valid values vary. Therefore, consider the illustrations as guides only; the values shown may not always apply.

Pre-requisites

JMS Console application requires Oracle WebLogic Server 12c (12.2.1.2), built with Java 8 (JDK 1.8 64 bit with the latest security updates).

Installing WebLogic with ADF Runtime

To get the ADF runtime option while creating the domain, install the Application Development Runtime. To obtain Application Development Runtime, go to the Oracle Technology Network and take the following steps:

- 1. Find fmw_12.2.1.2.0_infrastructure_Disk1_lof1.zip and download this file to your system.
- 2. Extract the contents of this zip file to your system. You will use the fmw_ 12.2.1.2.0_infrastructure.jar file to run the installer.
- **3.** Run the installer by executing the jar file:

java -jar fmw_12.2.1.2.0_infrastructure.jar

The Welcome window displays.



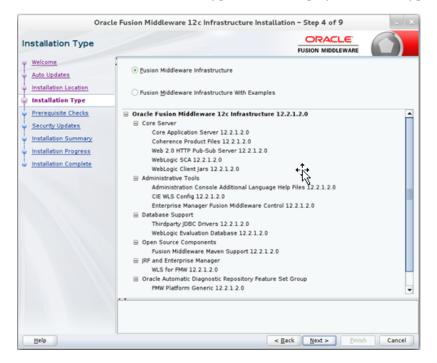
4. Click Next. The Auto Updates window displays. Select the appropriate option.

😸 😑 Oracle Fusion Midd	leware 12c Infrastructure In	stallation - Step 2 of 8		
Auto Updates				
Welcome Auto Updates Installation Location Installation Type Prerequisite Checks	Skip <u>A</u> uto Updates Select patches from <u>directory</u> Location:	,		Browse
Installation Summary Installation Complete	O Search My Oracle Support for Username: Password: Proxy Settin Search			[est Connection
Help		< Back	: <u>N</u> ext > Einis	h Cancel

5. Click **Next**. The Installation Location window displays. Click **Browse** to select the Oracle Home location where the WebLogic Server is to be installed.

Welcome Auto Updates Installation Location Installation Type	Qracle Home:				
Installation Type	¢				Brows
	Feature Sets Installed At Selected Oracle Home:	New			
Prerequisite Checks					
Installation Summary					
Installation Progress					
Installation Complete					
	Oracle Home may only contain alphanumeric, un must begin with an alphanumeric character.	derscore (_)), hyphen (-) or d	fot(.) charact	ters and it

6. Click Next. The Installation Type window displays. Select the type of installation.



7. Click **Next**. The installer performs the pre-requisite checks and ensures all required conditions are satisfied.

erequisite Checks				
Welcome	1			1
Auto Updates		100%		
Installation Location				
Installation Type	4	Checking operating system certification		
Prerequisite Checks		Checking Java version used to launch the installer		
Security Updates				
Installation Summary				
Installation Progress				
Installation Complete				
	Stop	Rerun Skip View Succes	sful <u>T</u> asks	View Log
		ecking operating system certification ecking Java version used to launch the installer		
		cking lava version used to launch the installer		

8. When the pre-requisite check completes successfully, click **Next**. The Security Updates window will display. Enter the information as required.

😸 😑 Oracle Fusion Midd	leware 12c Infrastructure Installation - Step 6 of 9
Security Updates	
Welcome Auto Updates Installation Location Installation Type Prerequiste Checks Security Updates Installation Progress Installation Complete	Provide your email address to be informed of security issues, install the product and initiate configuration manager. <u>View details</u> . Email: Taking for you if you use your My Oracle Support email address(username. I gish to receive security updates via My Oracle Support. My Qracle Support Password:
Help	< Back Next > Finish Cancel

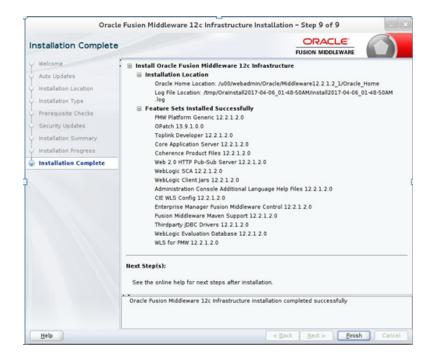
9. Click Next. The Installation Summary window displays.

stallation Summary					
Welcome	😑 Install Oracle Fusion Middleware 12c Infrastructure				
Auto Updates	Installation Location				
Installation Location	Oracle Home Location: /u00/webadmin/Oracle/Middleware12.2.1.2_1/Oracle_Home				
Installation Location	Log File Location: /tmp/Orainstall2017-04-06_01-48-50AM/install2017-04-06_01-48-50AM				
Installation Type	log				
Prerequisite Checks	🖻 Disk Space				
	Required: 2039 MB				
Security Updates	Available: 425398 MB				
nstallation Summary	Feature Sets to Install				
nstallation Progress	FMW Platform Generic 12.2.1.2.0				
-	OPatch 13.9.1.0.0				
nstallation Complete	Toplink Developer 12.2.1.2.0				
	Core Application Server 12.2.1.2.0 Coherence Product Files 12.2.1.2.0				
	Web 2.0 HTTP Pub-Sub Server 12.2.1.2.0				
	WebLogic SCA 12.2.1.2.0				
	WebLogic Client Jars 12.2.1.2.0 Administration Console Additional Language Help Files 12.2.1.2.0				
	CIE WLS Config 12.2.1.2.0				
	Enterprise Manager Fusion Middleware Control 12.2.1.2.0				
	Fusion Middleware Maven Support 12.2.1.2.0 Thirdparty IDBC Drivers 12.2.1.2.0				
	WebLogic Evaluation Database 12.2.1.2.0 WLS for FMW 12.2.1.2.0				
	WLS for FMW 12.2.1.2.0				
	Save Response File				
	Select Install to accept the above options and start the installation.				
	To change the above options before starting the installation, select the option to change in the left pane or use the Back button.				

10. Click **Install**. The Installation Progress window displays.

nstallation Progress							
Welcome Auto Updates				1	00%		_
				-			
Installation Location	V Prep	are					
Installation Type	🖌 Сору	,					
Prerequisite Checks		erating Libr	raries				
Security Updates	V Perfe	orming Stri	ing Substituti	ons			
Installation Summary	V Linki						
Installation Progress	🖌 Setu	-					
Installation Complete		r ng the inve	ntory				
	•	install scri					
	View Mess	ages		✓ Yiew	y Successful Tasks	Vie	w Log
Help	*				Hardware an Engineered to V		

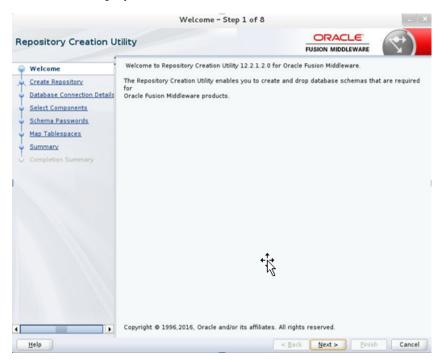
11. Click **Next** when the installation completes. The Installation Complete window displays.



Creating the Required Schema Using Repository Creation Utility

To create a schema user for the jms-console domain, take the following steps:

 Run the RCU from the <MW_HOME>/oracle_common/bin folder. The Welcome window displays.



2. Click Next and select the Create Repository option.



3. Click **Next**. Enter the database credentials where the schema user has to be created.

		Welcome - Step 3 of 8	1
epository Creation Uti	lity		
Welcome Create Repository	Database Type:	Oracle Database	
Database Connection Det	Host Name:	blr00abl.idc.oracle.com	
Select Components Schema Passwords			IP name or one of the Node name as Host name. Dase, specify SCAN host as Host name.
Map Tablespaces	Port:	1521	
Summary Completion Summary	Service Name:	sbdbl	
	<u>U</u> sername:	sys User with DBA or SYSDBA pr	ivileges. Example:svs
	Password:	••••••	+ t +
	Bole:	SYSDBA	-77
	-	une or more components m	ay require SYSDBA role for the operation to
Help			< Back Next > Finish Cancel

4. Click **Next**. Specify the prefix to be used for the schema user creation. For example, INT. Select Metadata Services, Weblogic Services, and Oracle Platform Security Services.

	Welcome	e - Step 4 of 8		- ×
Repository Creation U	Itility			3
Welcome	Specify a unique prefix for all s and manage the schemas late		ession, so you can easily locat	e, reference,
Database Connection Details	Select existing prefix	BDI168		*
Select Components				
Schema Passwords		INT		
and the second se		Alpha numeric only. Ca	nnot start with a number. No s	pecial
Map Tablespaces	Component		Schema Owner	1
ý <u>Summarv</u>	Seporacle AS Repositor	y Components		
Completion Summary	■ AS Common Schemas			
		structure Services	INT_STB	
		n Security Services	INT_OPSS	
	User Messagir		INT_UMS	
	Audit Services		INT_IAU	
	Audit Services		INT_IAU_APPEND	
	Audit Services		INT_IAU_VIEWER	
	✓Metadata Serv ØWeblogic Servi		INT_MDS INT_WLS	
	E webiogie Servi		141_113	
Help		<	Back Next > Finish	Cancel

5. Click Next. Specify the password.

😸 🖯 Welcome - Step 5 of	8					
Repository Creation U	tility		i			<
Welcome Create Repository Database Connection Details Select Components Schema Passwords Map Tablespaces Summary Completion Summary	 Use same passw <u>P</u>assword: <u>C</u>onfirm Passwo Use <u>m</u>ain schem 	or main and auxiliary schema us words for all schemas Alpha numeric only.Cannot st No special characters except and passwords for auxiliary schem passwords for all schemas	art with a r \$. #	umber.		
		ſ	e Back	Nexts	Fieldh	Canal
Help			< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	Cancel

6. Click Next. The window provides the details of tablespaces created as part of schema creation.

	pository Creation U			FUSION MIE	DDLEWARE
TT	Welcome Create Repository Database Connection Details Select Components			ected components appear i ablespaces, use the Manag	
î.	Schema Passwords	Component	Schema Owner	Default Tablespace	Temp Tablespace
I		Common Infrastructu	INT_STB	*INT_STB	*INT_IAS_TEMP
ę	Map Tablespaces	Oracle Platform Secu	INT OPSS	*INT IAS OPSS	*INT IAS TEMP
7	Summary	User Messaging Serv	INT UMS	*INT_IAS_UMS	*INT IAS TEMP
T		Audit Services	INT IAU	*INT_IAU	*INT IAS TEMP
0	Completion Summary	Audit Services Append	INT_IAU_APPEND	*INT_IAU	*INT_IAS_TEMP
		Audit Services Viewer	INT IAU VIEWER	*INT_IAU	*INT IAS TEMP
		Metadata Services	INT_MDS	*INT_MDS	*INT IAS TEMP
		Weblogic Services	INT WLS	*INT WLS	*INT IAS TEMP

7. Click Next. The Confirmation window displays.



8. Click OK. The Summary window displays.

	Welcome - S	tep 7 of 8		1.000
epository Creation U	tility			
Welcome Create Repository Database Connection Details Select Components Schema Passwords Map Tablespaces	Database details: Host Name Port Service Name Connected As Operation		a Load concurrently	
Summary	Prefix for (prefixable) Schema Owne	rs INT		
Completion Summary	Component	Schema Owner	Tablespace Type	Tablespace Name
	Common Infrastructure Services	INT_STB	Default Temp Additional	INT_STB INT_IAS_TEMP [None]
	Oracle Platform Security Services	INT_OPSS	Default Temp Additional	INT_IAS_OPSS INT_IAS_TEMP [None]
	User Messaging Service	INT_UMS	Default Temp Additional	INT_IAS_UMS INT_IAS_TEMP [None]
	Audit Services	INT_IAU	Default Temp Additional	INT_IAU INT_IAS_TEMP [None]
	Audit Services Append	INT_IAU_APPEND	Default Temp	INT_IAU INT_IAS_TEMP
,	Save <u>Response</u> File			
Help			Back Next >	Create Cancel

9. Click **Create** and proceed to create the schema. This could take a while to complete. The Summary window displays.

	w	/elcome - St	ep 8 of 8		
Repository Creation U	tility				
Welcome Create Repository Database Connection Details Select Components Schema Passwords Map Tablespaces Summary Completion Summary	Database details: Host Name Port Service Name Connected As Operation Execution Time RCU Logfile Component Log Directory View Log	1 minute 43 /tmp/RCU201		255123436/logs/rcu.log	J
	Prefix for (prefixable) Schema Owners Common Infrastructuu Oracle Platform Secu User Messaging Serv Audit Services Append Audit Services Append Audit Services Viewer Metadata Services Weblogic Services	re Services rity Services ice d	Status Success Success Success Success Success Success Success Success	Time 00:09.296(sec) 00:13.23(sec) 00:13.28(sec) 00:09.258(sec) 00:09.258(sec) 00:12.097(sec) 00:12.097(sec)	Logfile(Click to view) stb.log opss.log ucsums.log iau.append.log iau.append.log mds.log wis.log
• Help				< Back Next >	Create Close

Creating a WebLogic Domain with ADF Runtime Libraries

To create a new WebLogic domain with ADF runtime libraries, take the following steps:

 Run the config.sh from the <ORACLE_HOME>/oracle_common/common/bin folder. The Configuration Type window displays.

э I	Fusion Middleware Configuration Wiz	zard - Page 1 of 8	00
Configuration Type			
🙊 Create Domain	1		
Templates			
Administrator Account	•		
Domain Mode and JDK	2+		
Advanced Configuration	N		
Configuration Summary			
Configuration Progress	What do you want to do?		
End Of Configuration	Create a new domain		
	Update an existing domain		
	Domain Location: home/pratmoha/Wis12.2	1.2/user_projects/domains/pratap_domain	Srowse
		×	
	Create a new domain.		
Help		< Back Next > Emistr	Cancel

 Select Create a new domain, provide domain location, and click Next. The Templates window displays. By default, the Basic WebLogic Server Domain -12.2.1.0 [wlserver] check box is selected.

Select the Oracle JRF - 12.2.1 [oracle_common], Oracle Enterprise Manager - 12.2.1 [em], Oracle WSM Policy Manager - 12.2.1.0 [oracle_common], and WebLogic Coherence Cluster Extension - 12.2.1[wlserver] check boxes.

Templates		
	Create Domain Using Product Templates: Template Categories: All Templates Available Templates Pasis: WebLogic Server Domain - 12.2.1 Oracle Enterprise Manager - 12.2.1.2.0 Oracle Enterprise Manager - 12.2.1.2.0 Oracle User Messaging Service Basic - 1 Oracle MSA Session Service - 12.2.1.0 (c Oracle JRF SOAP/JMS Web Services - 12. Oracle Enterprise Manager - Restricted JI Oracle BAS Session Service - 12.2.1.0 (c Oracle JRF SOAP/JMS Web Services - 12. Oracle Enterprise Manager - Restricted JI Oracle BAS Session Service - 12.2.1.0 (c Oracle JRF - 12.2.1.2.0 [oracle common Oracle Restricted JRF - 12.2.1.2.0 [oracle WebLogic Coherence Cluster Extension WebLogic Advanced Web Services Applicat Dracte OPSS REST Service Applicat Dracte OPSS REST Service Applicat Dracte Jobain Using Custom Template Template Jocation: [/hom e/prutm.ora/With]	[em] 12.2.1.2.0 [oracle_common] oracle_common] oracle_common] 2.1.2.0 [oracle_common] RF - 12.2.1.2.0 [em] n] le_common] - 12.2.1.2.0 [wiserver] XX-WS Extension - 12.2.1.2.0 [oracle_common] ion - 12.2.1.2 [oracle_common] 12.2.1.2.1oracle_common]

3. Click **Next**. The Administrator Account window displays. Enter the user credentials you want to use to log in to the WebLogic Administration Console.

Administrator Account			
Create Domain Templates Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Progress End Of Configuration		FUSION MIDDLEWARE	

4. Click **Next**. The Domain Mode and JDK window displays. Set the **Domain Mode** as **Production** and select the **JDK** version (JDK 1.8 with the latest security updates) you want to use.

Domain Mode and JDK			
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources DBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Production Require the entry of a username JDK	nme and password, and poll for applications to and password, and do not poll for applications //u00/webadmin/java_latest/jdk1.8.0_121	0.72/2010
Help		< Back Next > Dmish	Cancel

- 5. Click Next. The Database Configuration Type window displays.
 - a. Select the RCU Data radio button.
 - **b.** Select **Oracle** as the **Vendor**.
 - **c.** Select **Oracle's Driver (Thin) for Service connections; Version 9.0.1 and later** as the **Driver**.
 - **d.** Enter the **Service**, **Host Name**, **Port**, **Schema Owner**, and **Schema Password** for the *_STB schema created using the RCU.
 - e. Click Get RCU Configuration.

The **Connection Result Log** displays the connection status.

	Fusion Middleware Configuration Wizard - Page 6 of 12	
Database Configuration	Type ORACLE FUSION MIDDLEWARE	
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration	Specify AutoConfiguration Options Using: BCU Data <u>Manual Configuration</u> Enter the database connection details using the Repository Creation Utility service table (STB) schema credentials. The Wizard uses this connection to automatically configure the datasource required for components in this domain.	
Component Datasources	Vendor: Oracle Driver: *Oracle's Driver (Thin) for Service connections. DBMS/Service: sbdb1 Host Name: Host Na	
Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Schema Owner: Schema Password:	
	Connecting to the database serverOK Retrieving schema data from database serverOK Binding local schema components with retrieved dataOK Successfully Done.	
	Click "Next" button to continue.	
Help	< Back Next > Enish Can	cel

6. Click Next. The JDBC Component Schema window displays.

JDBC Component Schema							
Create Domain Templates Application Location		ndor: [MS/Service: [river:		Port [}
Administrator Account		ierna Owner.		chema Password schemas:			
Database Configuration Type Component Datasources	Edi	Convert to Gri		wert to RAC multi-			convert.
Advanced Configuration	П.	Component Schema	DBMS/Service	Host Name	Port	Schema Ow	Schema Passy
	\square	LocalSvcTbl Schema	SBDB1	Hattaining	1521	INT_STB	
Configuration Summary		OWSM MDS Schema	S8081	Statistic Longs	1521	INT_MDS	
Configuration Progress		OPSS Audit Schema	SBDB1	interestation 1	1521	INT_IAU_APPE	
End Of Configuration		OPSS Audit Viewer Sc	SBDB1	bireculainde ; e	1521	INT_IAU_VIEWI	
		OPSS Schema	SBDB1	www.utitidanaga	1521	INT_OPSS	

7. Click **Next**. The JDBC Component Schema Test window displays status on whether the JDBC tests on the schemas were successful.

DBC Component Scher	ma Te	st					- 446	
Create Domain		Statu	Component Schema		IDI	C Connection URL		
Templates			LocalSvcTbl Schemi	in the second				_
Application Location		1	OWSM MDS Schema	and the second				
			OPSS Audit Schema	a sint				
Administrator Account			OPSS Audit Viewer :	-				
Domain Mode and JDK		1	OPSS Schema	-				
Advanced Configuration Configuration Summary		Iest S	elected Connections	<u>Cancel Te</u>	sting			
JDBC Test								
		Test S	elected Connections	Cancel Te	sting			
A CONTRACTOR OF A CONTRACTOR O								
Configuration Progress			n Result Log t Schema=LocalSvcTbl	C - b				-
End Of Configuration			cle.jdbc.OracleDriver	Schema				
chid of configuration								
end of configuration	URL							
end of configuration	URL	= r=INT_ sword-						
End of configuration	URL Use Pas	r=INT_sword						
End of Configuration	URL Use Pas SQL	r=INT_ sword Test=	SELECT 1 FROM DUAL					
End of Configuration	URL Use Pasi SQL CFG CEG	r=INT_ sword Test=		et was surry	eceful			
end of configuration	URL Use Pas SQL CFG	r=INT_ sword Test=	SELECT 1 FROM DUAL	et was surra	•ceful			1
end of configuration	URL Use Pass SQL CFG CFG	r=INT_ sword Test=	SELECT 1 FROM DUAL	et was surra	•eeful			1.
End of Configuration	URL Use Pass SQL CFG CFG	r=INT_ sword Test=	SELECT 1 FROM DUAL	net was surra	•ceful			
End of Configuration	URL Use Pass SQL CFG CFG	r=INT_ sword Test=	SELECT 1 FROM DUAL	et was surra	eccful			
End of configuration	URL Use Pass SQL CFG CFG	r=INT_ sword Test=	SELECT 1 FROM DUAL	eet was surce	eceful			
End of Configuration	URL Use Pass SQL CFG CFG	r=INT_ sword Test=	SELECT 1 FROM DUAL	eet was surce	eceful			

8. Click **Next**. The Advanced Configuration window displays. Select all the checkboxes, except Domain Frontend Host Capture and JMS File Store options, in this window.

Advanced Configuration			
Create Domain Create Domain Create Domain Create Domain Create Domain Create Domain Mode and JDK Database Configuration Type Component Datasources DBC Test Advanced Configuration Administration Server Advanced Configuration Administration Server Configuration Servers Coherence Clusters Machines Deployments Targeting Services Targeting Configuration Progress End Of Configuration	 Administration Server Modify Settings Node Manager Configure Node Manager Managed Servers, Clusters and Coherence Add or Delete or Modify Settings Domain Frontend Host Capture Configure Domain Frontend Host Deployments and Services Target to Servers or Clusters JMS File Store Modify Settings 		
Help	< Ba	ck Next > Finish	Cancel

9. Click **Next**. The Administration Server window displays. Enter the **Listen Address** and the **Listen Port** details.

Administration Server					and the second se	
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Mode Manager Managed Servers Coherence Clusters Coherence Clusters Machines Deployments Targeting Services Targeting Configuration Progress End Of Configuration	Server Name Listen Address Listen Port Enable SSL SSL Listen Port Server Groups	37001	nd 65535, and			oherence port

10. Click **Next**. The Node Manager window displays. Select the **Node Manager Type** and enter the **Node Manager Credentials**.

Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Coherence Clusters	Node Manager Type Per Domain Default I Per Domain <u>C</u> ustom Node Manager Home Manual Node Manage Node Manager Creder Username: Password:	n Location e: [2_Home/user_projects ger Setup	/domains/int_domain/nodemanas	ger) Brows
Machines Deployments Targeting Services Targeting Configuration Summary	Confirm Password:	password. Password mu	st contain at least 8 alphanumeri	ic characters
Configuration Progress	at least one number or s	special character.		

- 11. Click Next. The Managed Servers window displays.
 - a. Click Add to add a managed server on which you will deploy JMS Console.
 - **b.** Enter the **Server Name**, **Listen Address**, and **Listen Port** for the managed server.
 - c. Set the Server Groups to JRF_MAN_SRV.

Managed Servers						
Create Domain	💠 Add 🚯 🤅	Clone X Delete			🧐 Disga	rd Changes
Application Location Administrator Account	Server Name	Listen Address	Listen Port	Enable SSL	SSL Listen Port	Server Groups
Domain Mode and JDK	server	All Local Addres •	37003		Disabled	IRF-MAN-SVR
Node Manager Managed Servers Clusters						
Clusters Coherence Clusters						
Machines						
Deployments Targeting						
Services Targeting						
<u>Services Targeting</u> <u>Configuration Summary</u> Configuration Progress						

12. Click **Next**. The Clusters window displays.

a. Click **Add** to add a cluster. This is an optional step in the procedure.

Templates Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration	Cluster Address	Frontend Host	Frontend HTTP Port	Discard Changes Frontend HTTPS Port
Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration	Cluster Address	Frontend Host		
Database Configuration Type Component Datasources JDBC Test Advanced Configuration		h.	₹ [4
Administration Server Node Manager Managed Servers Clusters Coherence Clusters Machines Deployments Targeting Services Targeting Configuration Summary Configuration Progress End Of Configuration				

- 13. Click Next. The Coherence Clusters window displays.
 - **a.** Add a coherence cluster. This is an optional step in the procedure.

Coherence Clusters		
Create Domain		Discard Changes
Templates	Cluster Name	Cluster Listen Port
Administrator Account Domain Mode and JDK	defaultCoherenceCluster	Cluster Listen Port
2	Geraultconerencecluster	
Database Configuration Type		
Component Datasources JDBC Test		
Advanced Configuration		
Administration Server		
Node Manager		
Managed Servers		
Clusters		
Coherence Clusters		
Machines		
Deployments Targeting		
Services Targeting		
Configuration Summary		
Configuration Progress		
End Of Configuration		

- 14. Click Next. The Machines window displays.
 - a. Click Add.
 - **b.** Enter the **Name** and the **Node Manager Listen Address** for the managed server.

Machines					-		
<u>Create Domain</u> <u>Templates</u> Administrator Account	Machine Unix Mac	hine Zelete				🔊 Disgard	Changes
Domain Mode and JDK Database Configuration Type	Name	Enable	Post Bind GID	Enable	Post Bind UID	Node Manager Listen Address	Node Manager
DBC Test Advanced Configuration Administration Server Node Manager Managed Servers							
Clusters							
Clusters Coherence Clusters Machines							
Coherence Clusters							
Coherence Clusters Machines Assign Servers to Machines Deployments Targeting Services Targeting Configuration Summary Configuration Progress	A.*						
Coherence Clusters Machines Assign Servers to Machines Deployments Targeting Services Targeting Configuration Summary							

15. Click **Next**. The Assign Servers to Machines window displays. Add the Admin Server and the managed server to the computer.

) F	usion Middleware Configuration Wizard	- Pag	e 15 of 20 📃
Assign Servers to Machines			
Create Domain	Servers		Machines
Templates			Machine new_Machine_1
Administrator Account			AdminServer 😡
Domain Mode and JDK			🧊 jms_console_server
Database Configuration Type			
<u>Component Datasources</u>			
UDBC Test		>	
Advanced Configuration			
Administration Server			
<u>Node Manager</u>			
 <u>Managed Servers</u> 		8	
🤟 <u>Clusters</u>			
Coherence Clusters			
Machines			
Assign Servers to Machines			
Deployments Targeting			
Services Targeting			
Configuration Summary	Select one or more servers in the left pane and on button (>) to assign the server or servers to the m		
Configuration Progress	Servers to ussign the server of servers to the h	in a critic	
End Of Configuration			
Help		<	Back Next > Einish Cancel

16. Click **Next**. The Deployments Targeting window displays. Select wsm-pm from Deployments and add it to AdminServer in Targets.



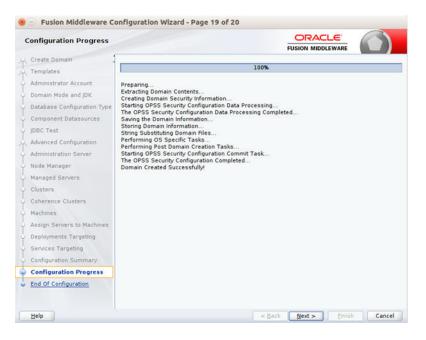
17. Click Next. The Services Targeting window displays.

	Fusion Middleware Configuration Wizard	l - Page	17 of 20	_ ×
Services Targeting				
🐙 Create Domain	Services		Targets	
Templates	Shutdown Class		🗁 Server ⊞ 🏷 AdminServer	-
dministrator Account	DBC System Resource		🖃 🝗 jms_console_server	
Union Mode and JDK	localSvcTblDataSource		⊟ → JDBC □ → JDBC System Re	source
Database Configuration Type	opss-audit-viewDS		📦 LocalSvcTb	DataSource
<u>Component Datasources</u>	opss-data-source		opss-audit	2010/06/2011
UDBC Test	AWT Application Context Startup Class	>	opss-data-	
Advanced Configuration	DMS-Startup		🖃 🗁 Shutdown Class	
Administration Server	JPS Startup Class		j DMSShutdown ⊡ 🗁 Startup Class	
🧅 <u>Node Manager</u>	JRF Startup Class		😡 AWT Applicatio	n Context Startup
Managed Servers	📦 ODL-Startup		🌍 DMS-Startup	
	📦 WSM Startup Class	8	🧊 JPS Startup Clas	s
🤟 <u>Clusters</u>	📦 Web Services Startup Class		🧊 JPS Startup Pos	t-Activation Class
Coherence Clusters	🗁 WLDF System Resource		🧊 JRF Startup Cla:	55
Machines	Module-FMWDFW		🥥 ODL-Startup	
			💓 WSM Startup CI	SYS
Assign Servers to Machines			Web Services St	
Deployments Targeting			🖃 🗁 WLDF System Reso	
Services Targeting	••		Module-FMWDF	W P
Configuration Summary	Select one or more Services in the left pane and of arrow button (>) to target the services to the services t			hen use the right
Configuration Progress	arrow button (>) to target the services to the ser	vers of cit	isters.	
C End Of Configuration				
Help	L	< <u>B</u>	ack <u>N</u> ext > <u>F</u> inish	Cancel

18. Click **Next**. The Configuration Summary window displays. Verify that all information described in this window is accurate.

Templates Application Location Application Location Administrator Account Administrator Account Server Database Configuration Type Service Component Datasources DBS Test DBG Test Managed Configuration Administrator Server WSM Startup Class Made and JDK WSM Startup Class DBG Test ODL-Startup Admanged Servers DBC Data Source Coherence Clusters ppsS-audit-viewDS Assign Servers to Machines Services Targeting Services Targeting Service Configuration the above configuration before starting Domain Creation gob ack to the relevant page b selecting its name in the left pane, or by using the Back button.	Configuration Summary			
Imit domain (Author Oracle Corporation Administrator Account Server Coation Domain Mode and JDX Server Oracle Enterprise Manager Database Configuration Type Service Description Component Datasources DMSShutdown Caston JBC Test Web Services Startup Class Name Oracle Corporation Administration Server Web Services Startup Class Name Oracle Corporation Addministration Server DMS-Startup DMS-Startup Name Oracle Corporation Addministration Servers DMS-Startup Mart Application Context Start Name Oracle WSM Policy Manager Madaged Servers Description Coracle WSM Policy Manager Name Oracle WSM Policy Manager Coherence Clusters Dess-audit-NeDDS Author Oracle WSM Console - Core Description Machines Assign Servers to Machines Services Targeting Select Create to accept the above options and start creating and configuring a new domain. To change the above configuration before starting Domain Creation, go back to the relevant page belocting its name in the left pane, or by using the Back button.		View: Deployment		Basic WebLogic Server Domain
Machines Opss-audit-VeNUS Name Oracle WSM Console - Core Assign Servers to Machines mds-owsm Description This scension template deplattion Assign Servers to Machines mds-owsm Location Location Deployments Targeting Select Create to accept the above options and start creating and configuring a new domain. To change the above configuration bforget starting Demain Creation, go back to the relevant page b selecting its name in the left pane, or by using the Back button. Configuration Progress Configuration Progress	Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters	 ⇒ Admin Server ⇒ Admin Server ⇒ Service ⇒ Shutdown Class ⇒ Shutdown Class ⇒ Shutdown Class ⊗ Startup Class WSM Startup Class WSH Startup Class WSF Startup <td>Author Location Name Description Author Location Name Description Author Location Name Description Author</td><td>Oracle Corporation Oracle Enterprise Manager Enterprise Manager Oracle Corporation ermas Plugin Template Oracle Corporation Oracle WSM Policy Manager ext</td>	Author Location Name Description Author Location Name Description Author Location Name Description Author	Oracle Corporation Oracle Enterprise Manager Enterprise Manager Oracle Corporation ermas Plugin Template Oracle Corporation Oracle WSM Policy Manager ext
Deployments Targeting Select Create to accept the above options and start creating and configuring a new domain. To change the above configuration before starting Domain Creation, go back to the relevant page b selecting its name in the left pane, or by using the Back button. Configuration Progress Configuration Progress	Machines	opss-audit-DBDS	Description Author	This extension template deploy
Configuration Progress Configuration Progress Configuration Progress	Deployments Targeting		• 27/11/2	
Configuration Progress	Concernation of the second second	change the above configuration before starting Do	main Creation,	
		selecting its name in the left pane, or by using the	Back Sotton.	

19. Click **Create**. The Configuration Progress window displays a message when the domain is created successfully.



20. Click **Next**. The Configuration Success window displays that describes the **Domain Location** and **Admin Server URL** once the configuration is complete.

End Of Configuration		
Create Domain Templates Application Location Administrator Account Domain Mode, and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Coherence Clusters Machines	 Oracle Weblogic Server Configuration Succeeded New Domain int_domain Creation Succeeded Domain Location Admin Server URL http://localhost 37001/console 	I
Assign Servers to Machines Deployments Targeting		
Services Targeting		
Configuration Summary		
Configuration Progress		
End Of Configuration		

21. Click **Finish** to complete creating the WebLogic domain and managed servers with ADF runtime.

Verifying the Installation of the ADF Runtime Libraries

To verify the installation of the ADF runtime libraries, take the following steps:

- 1. Start the Admin Server in the WebLogic domain and log on to the WebLogic Server Administration console with the admin credentials.
- **2.** In the **Domain Structure** section, click **Deployments**. The deployed libraries are listed.

ORACLE WebLogic Server Ad								
Change Center	Home	Log Out Preferences 🔛 Record Help	Q				Welcome,	weblogic Connected to: adf_di
View changes and restarts	Home >5	ummary of Servers >Summary of Services >Summ	ary of Depkyments					
Configuration editing is enabled. Future changes will automatically be activated as you	Summary	of Deployments						
modify, add or delete items in this domain.	Control	Monitoring						
Domain Structure								
df_domain 🔶	This pay selection	ge displays a list of Java EE applications and stand g the application name and using the controls on	alone application modules that have been installed to this do this page.	main. Installed applicat	ons and modul	es can be started, stopped, updat	ted (redeployed), or de	seted from the domain by first
- Servers - Ousters		a new application or module for deployment to						
Coherence Clusters Nachines Virtual Hosts =	Custon Deploye	nize this table						
Work Managers Startup and Shutdown Classes Deployments Services	Instal				_		Show	ing 1 to 10 of 33 Previous Ne
Security Realms	🗖 N	ame 🙃		State	Health	Туре	Targets	Deployment Order
- Decosotics		adf.oracle.businesseditor(1.0,12.1.3.0.0)		Active		Lbrary	AdminServer	100
iow do I 🖂		adf.oracle.domain(1.0,12.1.3.0.0)		Active		Library	AdminServer	100
Instal an enterprise application		adf.orade.domain.webapp(1.0,12.1.3.0.0)		Active		Library	AdminServer	100
Configure an enterprise application		coherence-transaction-rar		Active	🗸 ок	Resource Adapter	AdminServer	100
Update (redeploy) an enterprise application Start and stop a deployed enterprise		OMS Application (12.1.3.0.0)		Active	• ок	Web Application	AdminServer	5
application Monitor the modules of an enterprise	E 8	ms-console-15.0.0.RC1.ear		Active	🗸 ок	Enterprise Application	AdminServer	100
application Deploy E38 modules		3\$(2.1,2.1.7-01-)		Active		Library	AdminGerver	100
Instal a Web application		380(1.2,1.2.0.1)		Active		Lbrary	AdminServer	100
wstem Status		odl.clckhistory(1.0,12.1.3)		Active		Library	AdminServer	100
eath of Running Servers	-	odl.ckkhistory.webapp(1.0,12.1.3)		Active		Lbrary	AdminServer	100
Falled (0) Critical (0) Overloaded (0)	Install	Update Delete Start v Stop v					Show	ing 1 to 10 of 33 Previous Ne

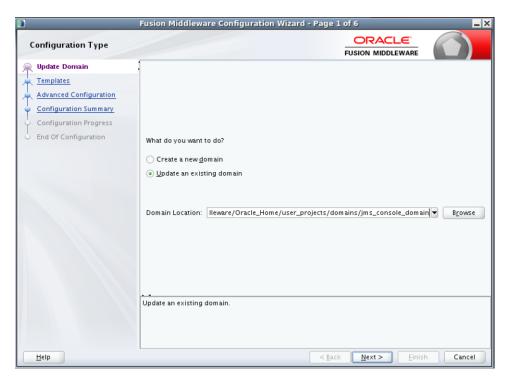
3. Click on an ADF library and go to the **Targets** tab. Verify that the library is targeted to both the Admin Server and the managed server. Verify these details for all the ADF libraries.

ORACLE WebLegis Server :	Brokschallon Consule 121	
Ounge Center	💼 mine Lag Gut Reference 😡 Anniel Hels	Wolksone, weblagie Corrected to proceeding domain
Vice-changes and restarts	inen elsenney el hapiyene) calloratistationatio/3.1331200 chemisy el hytovaris calloratistationation(1.0,13.1.3.00)	
Gift the Lock Addit Surface to models, and or detaile large in the domain.	Settings for adl anade, human satisfier (1.4,13,13,14)	
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Extending an Existing Domain to Add ADF Runtime Libraries

To extend an existing domain to add ADF runtime libraries, take the following steps:

 Run config.sh from the <ORACLE_HOME>/oracle_common/common/bin folder. The Configuration Type window displays.



- **2.** Select the **Update an existing domain** option. Click **Browse** and choose the location of the domain to be updated with the ADF libraries.
- Click Next. The Templates window displays. Select the Oracle JRF 12.2.1.2.0 [oracle_common],, Oracle Enterprise Manager - 12.2.1.2.0 [em], Oracle WSM Policy Manager - 12.2.1.2 [oracle_common], and WebLogic Coherence Cluster Extension - 12.2.1.2.0 [wlserver] checkboxes.

Templates				\bigcirc
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Oracle Enterprise M. Oracle User Messag Oracle WSM Policy M Oracle RAS Session Oracle JRF SOAP/JMI Oracle Enterprise M. Oracle IRF - 12.2.1.3 Oracle Restricted JRI WebLogic Advanced MT - Oracle OPSS RE Oracle DPSS REST Se	All Templates er Domain - 12.2.1.2.0 [wlse anager - 12.2.1.2.0 [em] ing Service Basic - 12.2.1.2.0 fanager - 12.2.1.2 [oracle_co Service - 12.2.1.2 [oracle_co Service - 12.2.1.2.0 [oracle_co Sweb Services - 12.2.1.2.0 [anager-Restricted JRF - 12.2 2.0 [oracle_common] F - 12.2.1.2.0 [oracle_common] F - 12.2.1.2.0 [oracle_common] Web Services for JAX-WS Ext Service Application - 12.2.1.2 excice Application - 12.2.1.2	oracle_common] omern] oracle_common] :1.2.0 [em] on] .2.0 [wiserver] tension - 12.2.1.2.0 [oracle_commo 2.1.2 [oracle_common]	n]
Help			< Back Next > Einish	Cancel

- 4. Click Next. The Database Configuration Type window displays.
 - **a.** Select the **RCU Data** radio button.
 - **b.** Select **Oracle** as the Vendor.

- **c.** Select **Oracle's Driver (Thin) for Service connections; Version 9.0.1 and later** as the **Driver**.
- **d.** Enter the **Service**, **Host Name**, **Port**, **Schema Owner**, and **Schema Password** for the *_STB schema created using the RCU.
- e. Click Get RCU Configuration.

The **Connection Result Log** displays the connection status.

😸 😑 Fusion Middleware C	onfiguration Wizard - Page 6 of 12
Database Configuration	Type ORACLE FUSION MIDDLEWARE
Create Domain Templates Application Location Domain Mode and JDK Database Configuration Tr Component Datasources JDBC Test Advanced Configuration Configuration Progress End Of Configuration	Pusion Middleware Specify AutoConfiguration Options Using:
Help	< Back Next > Enish Cancel

5. Click Next. The JDBC Component Schema window displays.

JDBC Component Schem	na					
Create Domain	Vendor:	Dri	ver:			
Templates	DBMS/Service:		st Name:		Port:	
Application Location					Porc	
Administrator Account	Schema Owner:	Sc	hema Password:			
Domain Mode and JDK	Oracle RAC configuratio	on for component s	chemas:			
Database Configuration Type	Convert to	GridLink O Com	vert to RAC multi	data sour	ce O Don't o	convert
Component Datasources						
JDBC Test	Edits to the data above	will affect all check	ed rows in the t	able billow	ι.	
Advanced Configuration	Component Schen	na DBMS/Service	Host Name	Pole	Schema Ow	Schema Pase
Configuration Summary	LocalSvcTbl Schem	-			INT_STB	
Configuration Progress	OWSM MDS Schem				INT_MDS	
	OPSS Audit Schem				INT_IAU_APPE	
End Of Configuration	OPSS Audit Viewer	Sc			INT_IAU_VIEWI	
	U OPSS Schema			1522	INT_OP55	

6. Click **Next**. The JDBC Component Schema Test window displays which indicates the status of the schema tests.

BC Component Sche	ma Te	st			i		
Create Domain	. 🔽	Status	Component Schema		JDB	C Connection URL	
Templates		1	LocalSvcTbl Schema	the second second	1000		
Application Location		1	OWSM MDS Schema	the second second	1000		
		1	OPSS Audit Schema	the second second	1000		
Administrator Account		1	OPSS Audit Viewer !	the second second	1000		
Domain Mode and JDK		1	OPSS Schema	the second second			
JDBC Test							
	- 11						
Advanced Configuration							
Configuration Summary		Test Se	elected Connections	<u>Cancel Test</u>	ting		
Configuration Summary Configuration Progress	Co	-	n Result Log	<u>Cancel Tes</u>	ting		
Configuration Progress	Cor	- nnectio	n Result Log t Schema=LocalSvcTbl		ting		
Configuration Progress	Cor	nnectio nponent /er=ora	n Result Log		ting		
Configuration Progress	Cor Driv URL Use	nnectio nponent ver=ora = er=INT :	n Result Log t Schema=LocalSvcTbl cle.jdbc.OracleDriver STB		ting		
Configuration Progress	Cor Driv URL Use Pas	onnectio mponent ver=ora = er=INT_! sword=	n Result Log t Schema=LocalSvcTbl cle.jdbc.OracleDriver STB ***		ting		
Configuration Progress	Cor Driv URL Use Pas SQI	ennectio mponent ver=ora er=INT_9 sword= L Test=	n Result Log t Schema=LocalSvcTbl cle.jdbc.OracleDriver STB .*** SELECT 1 FROM DUAL		ting		
Configuration Progress	Cor Driv URL Use Pas SQI	nnectio mponent ver=ora er=INT_9 sword= L Test=3	n Result Log t Schema=LocalSvcTbl cle.jdbc.OracleDriver STB SELECT 1 FROM DUAL 213: Test Successfull	Schema			
	Cor Driv URL Use Pas SQI	nnectio mponent ver=ora er=INT_9 sword= L Test=3	n Result Log t Schema=LocalSvcTbl cle.jdbc.OracleDriver STB .*** SELECT 1 FROM DUAL	Schema			
Configuration Progress	Cor Driv URL Use Pas SQI	nnectio mponent ver=ora er=INT_9 sword= L Test=3	n Result Log t Schema=LocalSvcTbl cle.jdbc.OracleDriver STB SELECT 1 FROM DUAL 213: Test Successfull	Schema			
Configuration Progress	Cor Driv URL Use Pas SQI	nnectio mponent ver=ora er=INT_9 sword= L Test=3	n Result Log t Schema=LocalSvcTbl cle.jdbc.OracleDriver STB SELECT 1 FROM DUAL 213: Test Successfull	Schema			
Configuration Progress	Cor Driv URL Use Pas SQI	nnectio mponent ver=ora er=INT_9 sword= L Test=3	n Result Log t Schema=LocalSvcTbl cle.jdbc.OracleDriver STB SELECT 1 FROM DUAL 213: Test Successfull	Schema			
Configuration Progress	Cor Driv URL Use Pas SQI	nnectio mponent ver=ora er=INT_9 sword= L Test=3	n Result Log t Schema=LocalSvcTbl cle.jdbc.OracleDriver STB SELECT 1 FROM DUAL 213: Test Successfull	Schema			

 Click Next. The Advanced Configuration window displays. Select the Managed Servers, Clusters and Coherence and the Deployments and Services checkboxes.

	usion Middleware Configuration Wizard -	Page 6 of 15	_ ×
Advanced Configuration			
Update Domain Templates Database Configuration Type Component Datasources JD8C Test Advanced Configuration Managed Servers Clusters Coherence Clusters Machines Deployments Targeting Services Targeting Configuration Summary Configuration Progress End Of Configuration	 Managed Servers, Clusters and Coherence Add or Delete or Modify Settings Domain Frontend Host Capture Configure Domain Frontend Host Deployments and Services Target to Servers or Clusters 		
Help		< <u>B</u> ack <u>N</u> ext > <u>E</u> inis	Cancel

- 8. Click Next. The Managed Servers window displays.
 - a. Click Add to add a managed server.
 - **b.** Enter the **Server Name**, **Listen Address**, and the **Listen Port** for the managed server.

3	Fusion Middleware C	onfiguration Wizar	d - Page 7 o	f 15		_ ×
Managed Servers						
Templates	💠 🗛 🔒 Cl	one 🔀 <u>D</u> elete			🧐 Disg	ard Changes
Database Configuration Type Component Datasources	Server Name	Listen Address	Listen Port	Enable SSL	SSL Listen Port	Server Groups
UDBC Test	jms_console_server	•	17003		Disabled	Unspecified 🔻
Advanced Configuration Managed Servers						
Clusters Coherence Clusters						
Machines						
Deployments Targeting Services Targeting						
Configuration Summary Configuration Progress						
End Of Configuration						
Help			< <u>B</u> ack	<u>N</u> ext >	Einish	Cancel

9. Click **Next**. The Clusters window displays. Click **Add** to add a cluster. This is an optional step in the procedure.

I I I I I I I I I I I I I I I I I I I	usion Middlewar	e Configuration W	izard - Page 8	of 15	_×_
Clusters					
Templates	👍 Add 🛛 💥	Delete		9	Dis <u>c</u> ard Changes
Database Configuration Type Component Datasources IDBC Test Advanced Configuration	Cluster Name	Cluster Address	Frontend Host	Frontend HTTP Port	Frontend HTTPS Port
Managed Servers Clusters Coherence Clusters					
<u>Machines</u> <u>Deployments Targeting</u> <u>Services Targeting</u>					
Configuration Summary Configuration Progress End Of Configuration					
Help			< <u>B</u> ack	<u>N</u> ext > <u>Eini</u>	sh Cancel

10. Click **Next**. The Coherence Clusters window displays. Add a coherence cluster. This is an optional step in the procedure.

	Fusion Middleware Configuration Wizard - I	Page 9 of 15	_ ×
Coherence Clusters			
Lipdate Domain		n 🔝 n	is <u>c</u> ard Changes
Templates			S <u>c</u> ara enanges
Database Configuration Type	Cluster Name	Unicast Listen Po	ort
Component Datasources	defaultCoherenceCluster	0	
JDBC Test			
Advanced Configuration			
Managed Servers			
Clusters			
Coherence Clusters			
Machines			
Deployments Targeting			
 Services Targeting 			
Configuration Summary			
Configuration Progress			
End Of Configuration			
Help	[< <u>B</u> ack <u>N</u> ext > <u>F</u> inish	Cancel

11. Click Next. The Machines window displays.

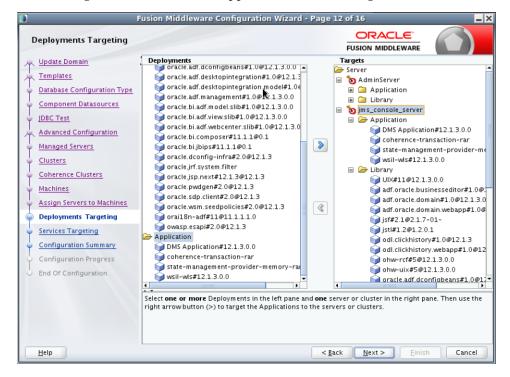
- **a.** Click **Add** to add a computer.
- **b.** Enter the Name and the Node Manager Listen Address.

	Fusion Middleware Configura	tion Wizard - Page 10 of 16	_ ×
Machines			
Update Domain Templates Database Configuration Type Component Datasources JDBC Test Advanced Configuration Managed Servers Clusters Coherence Clusters Nachines Assign Servers to Machines Deployments Targeting Services Targeting Configuration Summary Configuration Progress End Of Configuration	Machine Unix Machine	Node Manager Listen Address	Disgard Changes Node Manager Listen Port 5556
Help		< <u>B</u> ack <u>N</u> ext	> Einish Cancel

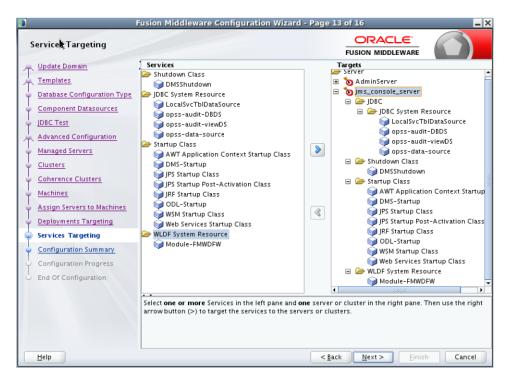
12. Click **Next**. The Assign Servers to Machines window displays. Add both the Admin Server and the managed server to the computer.

a I	usion Middleware Configuration Wizard	- Pag	e 11 of 16	_ ×
Assign Servers to Machine	s			
🙊 Update Domain	Servers		Machines	
Templates			Achine 🖉	
Database Configuration Type			new_Machine_1 AdminServer	
			jms_console_server	
 <u>Component Datasources</u> 				
UDBC Test				
Advanced Configuration				
Managed Servers		>		
Clusters				
Coherence Clusters				
Machines				
Assign Servers to Machines				
		8		
 Deployments Targeting 				
 Services Targeting 				
Configuration Summary				
Configuration Progress				
End Of Configuration				
	Select one or more servers in the left pane and on	ne mach	nine in the right pane. Then use t	ne right arrow
	button (>) to assign the server or servers to the m			-
Help	L	<	<u>B</u> ack <u>N</u> ext > <u>F</u> inish	Cancel
		_		

- **13.** Click **Next**. The Deployments Targeting window displays.
 - **a.** By default, all libraries and applications are only targeted to the Admin Server. Ensure wsm-pm is targeted to AdminServer.
 - **b.** Target all the libraries and applications to the managed server.



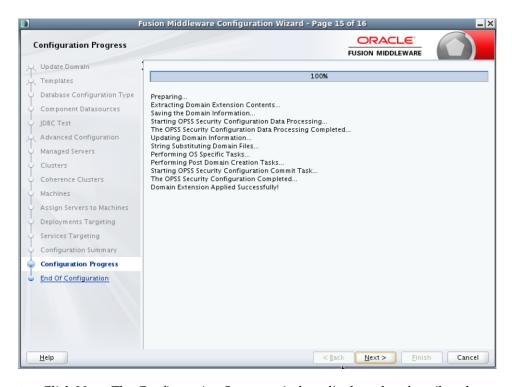
- 14. Click Next. The Services Targeting window displays.
 - **a.** By default, all services are only targeted to the Admin Server.
 - **b.** Target all services to the managed server.



15. Click **Next**. The Configuration Summary window displays. Verify that all information described in this window is accurate.

	usion Middleware Configuration Wizard - Pa	ge 14 of 16	_×
Configuration Summary	k		
 Update Domain Templates Database Configuration Type, Component Datasources JDBC Test Advanced Configuration Managed Servers Clusters Coherence Clusters Machines Assign Servers to Machines Deployments Targeting Services Targeting Configuration Summary Configuration Progress End Of Configuration 	View. Deployment	Name Description Author Location Name Description Author Location Name Description Author Location Name Description Author Location Name Description Author Location	Jim s_domain Oracle Corporation /home/dev02/Oracle/Middleware Oracle JRF Required for Fusion Middleware C Oracle Corporation /home/dev02/Oracle/Middleware Oracle Click History Oracle Click History extension tem Oracle Corporation /home/dev02/Oracle/Middleware WebLogic Coherence Cluster Extent Extend an existing WebLogic Serve Oracle Corporation /home/dev02/Oracle/Middleware Oracle WSM Agent Oracle WSM Agent Oracle Corporation /home/dev02/Oracle/Middleware Oracle WSM Agent Oracle MSM Agent O
<u>H</u> elp		< <u>B</u> ack <u>N</u> e	ext > Update Cancel

16. Click **Update**. The Configuration Progress window displays. The window displays a status message when the domain is updated successfully.



17. Click **Next**. The Configuration Success window displays that describes the **Domain Location** and **Admin Server URL** once the configuration is complete.

Configuration Success	on Middleware Configuration Wizard - Page 16 of 16)
JQ Update Domain		_
J. Templates	Oracle Weblogic Server Configuration Succeeded	
Database Configuration Type	Existing Domain jms_domain Updated Successfully	
Component Datasources	Domain Location	
JDBC Test	/home/dev02/Oracle/Middleware/Oracle_Home/user_projects/domains/ims	dom
Advanced Configuration	Admin Server URL	
Managed Servers	http://	
Clusters		
Coherence Clusters		
Machines		
Assign Servers to Machines		
Deployments Targeting		
Services Targeting		
Configuration Summary		
Configuration Progress		
Configuration Success		
Help	< Back Next > Finish Ca	ncel

18. Click Finish to complete updating the existing domain with the ADF runtime.

Deploying JMS Console Application

This chapter describes the steps you should take to deploy JMS Console.

Preparing the Database for JMS Console Installation

Before you begin installing JMS Console, make sure you have a valid AQ JMS. JMS Console assumes that the AQ JMS configured is valid and tested for messaging. To use JMS Console with the RIB messaging system, you need a valid and a working RIB AQ system.

Note: For more information on RIB AQ database configuration, see Chapter 3, Database Installation Tasks, in the *Oracle Retail Integration Bus Installation Guide*.

Supporting Multiple JMS Servers

JMS Console supports multiple AQ JMS servers. During the installation, if multiple JMS servers are specified in the configuration file, JMS Console creates the required data sources on the WebLogic server. JMS Console provides you the ability to log in to different AQ servers and monitor them.

Deploying JMS Console Application on the WebLogic

To deploy the JMS Console ear, take the following steps:

- 1. Download JmsConsole16.0.21ForAll16.x.xApps_eng_ga.zip to \$RIB_HOME/tools-home/.
- **2.** Go to \$RIB-HOME/tools-home/ and extract the contents of the zip file (JmsConsole16.0.21ForAll16.x.xApps_eng_ga.zip).
- 3. Edit jms-console-deployment-env-info.json as follows:

cd jmsconsole/conf/

vi jms-console-deployment-env-info.json

Note: For more information on configuring jms-console-deployment-env-info.json correctly, see Appendix: JMS Console Installation Checklist.

4. Modify the DataSourceDef and MiddlewareServerDef information with information that is specific to your environment.

By default, the JSON files have placeholders for three AQ connections, namely AqDataSource1, AqDataSource2, and AqDataSource. If you plan to install a single AQ, delete the other AQ instances. Alternatively, if you plan to install more than three AQs, add more instances as appropriate.

The following is an example configuration:

```
{
    "JmsConsoleDeploymentEnvInfo":{
        "DataSourceDef":{
            "AqDataSource":[
            {
                "dataSourceName": "AqDataSource1",
                "dataSourceClass":"oracle.jdbc.pool.OracleDataSource",
                "dataSourceJndiName":"jdbc/AqDataSource1",
                "jdbcUrl":"jdbc:oracle:thin:@//host.example.com:1521/pdborcl",
                "jdbcUserAlias": "aqDataSourceUserAlias1",
                "jdbcUser":"GET_FROM_WALLET",
                "jdbcPassword":"GET_FROM_WALLET"
            },
            {
                "dataSourceName": "AqDataSource2",
                "dataSourceClass":"oracle.jdbc.pool.OracleDataSource",
                "dataSourceJndiName":"jdbc/AqDataSource2",
                "jdbcUrl":"jdbc:oracle:thin:@//host.example.com:1521/pdborcl",
                "jdbcUserAlias": "aqDataSourceUserAlias2",
                "jdbcUser":"GET_FROM_WALLET",
                "jdbcPassword":"GET_FROM_WALLET"
            },
            {
                "dataSourceName": "AqDataSource3",
                "dataSourceClass":"oracle.jdbc.pool.OracleDataSource",
                "dataSourceJndiName":"jdbc/AqDataSource3",
                "jdbcUrl":"jdbc:oracle:thin:@//host.example.com:1521/pdborcl",
                "jdbcUserAlias":"aqDataSourceUserAlias3",
                "jdbcUser":"GET_FROM_WALLET",
                "jdbcPassword": "GET_FROM_WALLET"
            }
            ]
        },
        "MiddlewareServerDef":{
            "JmsConsoleAppServer":{
                "weblogicDomainName":"jmsconole3_domain",
                "weblogicDomainHome":"/home/weblogic/oracle/middleware_
121200/user_projects/domains/jmsconole_domain",
"weblogicDomainAdminServerUrl":"t3://jmsconsolehost.example.com:7001",
                "weblogicDomainAdminServerProtocol":"t3",
                "weblogicDomainAdminServerHost":"jmsconsolehost.example.com",
                "weblogicDomainAdminServerPort":"7001",
"weblogicDomainAdminServerUserAlias":"jmsConsoleAppServerAdminServerUserAlias",
                "weblogicDomainTargetManagedServerName":"jms-console-server",
"jmsConsoleAdminUiUrl":"http://jmsconsolehost.example.com:7001/jms-console",
                "jmsConsoleAdminUiUserGroup": "JmsConsoleAdminGroup",
                "jmsConsoleAdminUiUserAlias":"jmsConsoleAdminUiUserAlias",
```

6. Run the deployer script to create the datasource and deploy JMSconsole.

\$ cd jmsconsole/bin/

\$ sh jms-console-deployer.sh -setup-credentials -deploy-jms-console-app

gjoshi@gjoshi-thx bin]\$ caport mc_nonc=-yoracteynioutemareiziz/mtserver/ [gjoshi@gjoshi-lnx bin]\$./jms-console-deployer.sh Bad level value for property: .level					
ISAGE: JmsConsoleDeployer SECURIT	Y_OPTION TASK_ACTION				
: JmsConsoleDeployer {-setup	: JmsConsoleDeployer {-setup-credentials -use-existing-credentials} -deploy-jms-console-app				
SECURITY_OPTION	: One of the following SECURITY options must be used.				
-setup-credentials	: Setup AppServer and DB user/password and save to wallet. : Edit the jms-console-deployment-env-info.json config file before setting up credentials.				
-use-existing-credentials	: Use previously setup AppServer and DB user/passwords from wallet.				
TASK_ACTION	: The following TASK_ACTION option must be used.				
<pre>-deploy-jms-console-app</pre>	: Configures WebLogic Server and deploy the jms-console application.				
`gjoshi@gjoshi-lnx bin]\$./jms-co	nsole-deployer.sh -setup-credentials -deploy-jms-console-app				

- 7. Enter the parameter value prompted by the script.
- 8. Bounce the WebLogic server hosting JMS Console application.
- **9.** Restrict access to the jms-console folder: cd \$RIB-HOME/tools-home/jms-console

chmod -R 700.

Testing the Deployment

After you deploy the server successfully, JMS Console can be accessed using the following URL:

http://<server>:<port>/jms-console

Navigation and Help

This chapter describes the navigation and steps to use JMS Console application.

Introducing the User Interface

JMS Console is a lightweight Web application based on ADF and presents information it sources from AQ JMS in a user friendly manner. The **Live Monitor** tab describes all JMS activity in real time, thereby giving you a summary of the overall health of JMS system in one view. The **Browse** tab allows you to browse topics and is a view-only feature. The **Manage** tab gives you access to the administrator management tools that are critical for troubleshooting.

Log in to JMS Console

To log in to the JMS Console, take the following steps:

1. Enter the application URL http://<host>:<port>/jms-console in the address bar of the browser.

Note: Oracle recommends that you use the Mozilla Firefox Web browser to access the URL.

Littlema	
Sign In to 3MS Console	
Sign In to JMs Console	
* Married	
*Personal	
* See Server (see	
Cancel Legen	

- **2.** In the **Username** field, enter the user name you provided during the installation of the application.
- 3. In the **Password** field, enter the password.
- **4.** Select the JMS server from the drop down list to work with a specific JMS server. By default, **jms1** is selected. The drop down list provides flexibility to switch between JMS servers when multiple AQ JMS's are configured for a single installation.
- 5. Click Login. The application home page displays.

Live Monitor

The **Live Monitor** tab is the landing page of JMS Console. It provides an unattended high level view of the AQ JMS server. The dashboard displays the activity on the AQ JMS in question in real time. The dashboard automatically refreshes its content and pulls the latest data from the server every ten seconds.



The Live Monitor tab displays the data collected at different levels and visually groups related data into graphs and tables. There are three main groups are as follows:

- 1. Server Level Metrics The top panel displays a few key metrics for the configured JMS and provides a short summary of them.
 - **a.** JMS Connection URL Provides the full JDBC URL for AQ data source, where jms1 stands for JMS Server 1.
 - b. JMS User Name Provides the database user name for the configured AQ.

- **c.** Topic Count Denotes the total number of Topics present on the configured AQ.
- **d.** Subscriber Count Denotes the total number of subscribers found on the configured AQ.
- **e.** Total Messages Waiting Denotes the total number of messages waiting on the configured AQ since the JMS Console was installed.
- f. Total Messages Processed Denotes the total number of messages processed on the configured AQ since the JMS Console was installed.
- **g.** Monitor Start Time Denotes the time passed since monitoring started, that is since the time the JMS Console was installed.
- **2. Topic/Subscriber Level Metrics -** This panel displays the current activity and inactivity details for the AQ JMS system.
 - **a.** Top (10) Active Topics Since 00:00 AM (En-queue/De-queue) This graph lists the Top Active Topic names and the volume of messages en-queued and de-queued since midnight (00 AM). The data is sorted by volume so that the topics with the highest volume appear first in the bar graph.

Usage Tip - Use this graph to know the list of Topics that have processed most volume since midnight.

b. Most Recent Activity - This is a tree table that lists all the Topics on the AQ system with the subscribers for each topic. For each topic, the Total Messages processed are listed at two different time intervals, one since midnight and second one since the JMS Console was installed. Values are delimited by a '/'. For each subscriber, the Total Messages Waiting is listed. This table is significant because it displays the current activity on JMS system by indicating the most recent activity at the top of the table. In other words, this table is sorted by Most Recent Activity Time.

Usage Tip - Use this table to review the most recent activities in JMS system.

c. Inactive Topics by Inactivity Age - This table reports all Topics based on how long the Topic has been 'inactive'. In other words, Topics with no message traffic since the monitoring started. This table is sorted by the Inactivity age and displays the most inactive Topic first. In custom installations, there are chances that certain topic(s) is intentionally not being used. In such cases, you can configure the topic(s) to not be shown in this table. For more information, see the Edit Properties under Manage JMS.

Usage Tip - This report would be useful while troubleshooting potential problems when messages are being en-queued to a Topic, This will help isolating the integration problems, specifically when the publishing application is not even hitting JMS Topic.

Note: The timezone is not taken into account when calculating Inactive Time. For example, if the database is in a timezone one hour ahead of the application server, any activity in the AQ will immediately be recorded in JMS console as 1 hour ago.

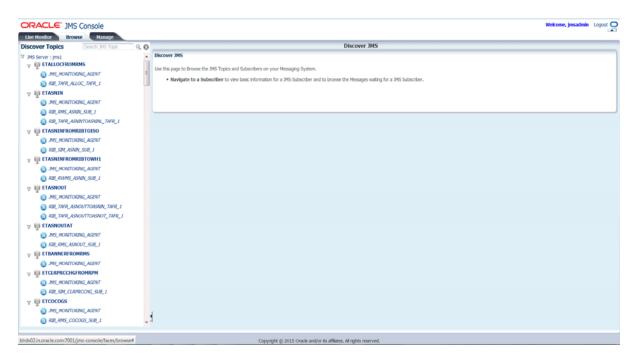
3. Live Message Subscription Activity Count per Subscriber by Topic - This graph reports the live message activity on the AQ JMS grouped by Topics and subscribers. This graph is presented in four quadrants stacked as four panels. The number of panels is based on the number of Topics available on JMS. The graph

mainly presents the key metrics for each Topic, Total Messages processed, and the Messages Waiting on a Topic for a specific subscriber. The graph also serves as an alert notification monitor. When the threshold for Max Messages Waiting on Topic set for Messages waiting is breached, a warning sign appears on the Topic that has reached the set threshold. This indicates that the messages are blocked and that the administrator needs to take action to normalize the condition.

Note: The Live Monitor window automatically refreshes every ten seconds but the backend services are designed to collect data from JMS on a longer interval for performance reasons. Hence, all the reports (including graphs) in the Live Monitor window may experience a slight delay (~1 minute) in loading the latest data. For more information, see Edit Properties.

Browse JMS

The **Browse** tab provides browsing capabilities and allows you to discover and drill into the key components of AQ JMS namely Topics, Subscribers, and the Messages. By clicking on a Topic listed in the navigation menu, you can see all the subscribers registered with the Topic. When you click on the Subscriber, you can view the message count and the message content.



1. Discover Topics Navigation Menu - The navigation system lists all the Topics found on the AQ JMS. It allows you to review (view-only access) the Topics and explore the AQ JMS without altering the state of JMS. The menu system lets you drill into the Topics and the Subscribers by clicking on them.

The Navigation menu uses icons to visually differentiate Topics. For example:

ETALLOCFROMRMS

A Subscribers example is as follows:

RIB_TAFR_ALLOC_TAFR_1

2. JMS_MONITORING_AGENT - This is a special light weight subscriber created by JMS Console during application installation. It is designed to collect data from the AQ and provides statistics to JMS Console.

ORACLE" JMS Console			Wekowe, jewadwie Logo
Last Monitor Browse Manage			
	3.0 Subsorber Summary		
V 345 Server : jms1 V ELL CORRONANS	* 3MS Server:	jmi jiholegbetelownei#ythc.mojethin	
3HS_MONITORING_AGENT	Figic:	EDILLOCIEDMENS	
RIB_TAFR_ALLOC_TAFR_1	Subscriber Name:	RB, TWR, ALLOC, TAVR, L	
V ER ETASNEN	Messages waiting on topic:	79	
3HS_MONITORING_AGENT	Message Selector:	None	
RELANS, ASNIN, SUR, I			
C RETAIN ASSUNTANCE THE I			
T IN ETASNENFROMRUBTOLSO			
JMS_MONITORING_AGENT		Start Index:	* Count: So Take Snapshot of messages Release Snapshot.
AR. SH. ANR. SULT			
V III ETASMENFROMILIBTOWNI	-		Search 0, 6
AND THE MONTORING AGENT	Hessages John N	anter Factoria Tran	
AR ANNS ASHE, S.R. 1		mage Enqueue Time 17/2015 1:45 PM	Prevages -RDMesages sentes="http://www.oracle.com/rstall/http://bl/Mesages" sentes.co="http://www.wil.org/2001/04.5chema.m.;
7 EP ETASNOUT		17/2015 1:45 (%	<rbnessages <="" smins="http://www.orack.com/retailintegration/th/RbNessages" smins.ssi="http://www.w3.org/2001/04.5chema-in" th=""></rbnessages>
B JHS MONTORING AGENT		17/2015 1:45 PM	<r8messages etal="" htegration="" http:="" it="" ndmessages"="" www.orace.com="" xmins="http://www.prace.com/refail/negratory/it/R8Messages" xmins.xs="http://www.w3.org/2001/04.5chema.m</th></tr><tr><th>B RB, TWR, ASSOCITTORSHIP, TWR, J</th><th></th><th>17/2015 1:45 PM
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		Copyright (b 2015 Oracle and/or it	s afflates. Al rights reserved.
Help			Back Next > Einish Cancel
			Terre Truck Control

To browse a specific Topic/Subscriber, click the Subscriber listed on the Navigation menu. This displays the Subscriber Summary panel on the right hand side pane. The Subscriber Summary panel provides information on the selected subscriber and contains the **Take Snapshot of messages** button.

Subscriber Summary	
JMS Server:	/ms1_/dbc/AqDataSource1#jdbc:oracle:thin:@//
Teste	
Topic:	ETASIAN
Subscriber Name:	R8_06_A90_S8_1
Messages waiting on topic:	103
Message Selector:	((decode(dtms,agims.get_ptype('appName', tab.user_data.header.properties), 100, dbms_agims.get_stvia('appName', tab.user_data.header.properties), 200, dbms_agims.get_numvia('appName', tab.user_data.header.properties), null) IS NULL) OR (tab.user_data.header.get_string_property ('appName') = 'rib-rms') OR (tab.user_data.header.get_string_property ('appName') = 'rib-rms' AND (decode(dbms_agims.get_ptype('retryLocation', tab.user_data.header.properties), 100, dbms_agims.get_strvai('retryLocation', tab.user_data.header.properties), 200, dbms_agims.get_ptype('retryLocation', tab.user_data.header.properties), null) IS NOT NULL OR
	* Start Index: 0 * Count: 50 Take Snapshot of messages Release Snapshot

- 3. JMS Server The complete connection URL for JMS Server.
 - **a.** Topic The name of the Topic the selected subscriber is listening to.
 - b. Subscriber Name The name of the selected subscriber.
 - **c.** Message Waiting on Topic The number of messages waiting for the selected subscriber.
 - **d. Message Selector** A messaging application can filter the messages it receives using a message selector. The message subscriber then receives only messages whose headers and properties match the selector. This field displays the Message Selector for the selected subscriber.
 - e. Take Snapshot of the messages In a healthy messaging system, messages are typically en-queued/de-queued continuously and removed from the Topic as soon as the de-queue transaction is committed. In such a situation, viewing a live message is practically impossible. The Take Snapshot tool resolves this issue. This tool lets you get a snapshot of a specific message you want to analyze even after the message has been consumed by the subscribing application. The messages in the snapshot are stored in memory thereby giving you access to view or analyze the message payload.

The tool requires two inputs as follows:

Start Index - It specifies the starting point of the snapshot.

Count - It specifies the number of messages to be included in the snapshot.

- f. Messages Once the snapshot of the messages is available, the messages are listed in the Messages panel. Each record in the table corresponds to a message in the snapshot. The index in the table refers to the indexing of the list of messages starting with 0. Message columns display the first few characters of the actual message and are intended to serve as a clue. You can identify the message you want to review in detail and click on the row to view it.
- **g.** Message Details When a row in the Messages panel is selected, details are loaded in the Message Details panel. This describes JMS Header properties associated with the message and the actual message contents.

.

Index	Message Enqueuetime	Messages
Э	0/10/2014 3.55 PM	18
10	6/28/2014 6:59 AM	<rm:ribmessages http:="" integration="" retail="" rib="" ribmessag<="" td="" www.oracle.com="" xmlns:rm="http://www.oracle.com/retail/integration/rib/RibMessag</td></tr><tr><td>11</td><td>6/28/2014 6:59 AM</td><td><rm:RibMessages xmlns:rm="></rm:ribmessages>
12	6/28/2014 6:59 AM	<rm:ribmessages http:="" integration="" retail="" rib="" ribmessag<="" td="" www.oracle.com="" xmlns:rm="http://www.oracle.com/retail/integration/rib/RibMessag</td></tr><tr><td>13</td><td>6/28/2014 6:59 AM</td><td><rm:RibMessages xmlns:rm="></rm:ribmessages>
14	6/28/2014 6:59 AM	<rm:ribmessages http:="" integration="" retail="" rib="" ribmessag<="" td="" www.oracle.com="" xmlns:rm="http://www.oracle.com/retail/integration/rib/RibMessag</td></tr><tr><td>15</td><td>6/28/2014 6:59 AM</td><td><rm:RibMessages xmlns:rm="></rm:ribmessages>
16	6/28/2014 7:04 AM	

Jms Message Properties		Message Content
Ims Message Properties Property JMS_OracleConnectionID threadValue JMS_OracleDeliveryMode JMS_OracleTimestamp	Value fcd463fe9ed875c2e04310358d0ae32f 1 2	Message Content <pre> <pre> <pre> <pre> </pre> </pre> </pre> </pre> <pre> <pre> <pre> <pre> <pre> </pre> </pre> </pre> </pre> </pre> <pre> </pre> <pre> </pre> <pre> </pre> <

Manage JMS

The **Manage** tab essentially bundles a few key tools that are required for managing a JMS server. Oracle recommends that only an administrator, who knows JMS system in depth and is aware of the potential outcome of the action performed by this toolset, be allowed to use the features provided in this tab. This window allows you to interact with JMS server using core messaging system features like publishing a message to a Topic and dumping and draining messages from a subscriber.

ORACLE' JMS Console Welcome, jmsadmin 🛛 Logout 🔘 Live Monitor Browse Manage Manage JMS 9.0 Manage JMS Topic ℤ JMS Server : ims1 $_{\triangledown}$ Use the options listed to manage the selected Topic 'ETALLOCFROMRMS'. 🖳 Publish Message Click on the navigation tree node 'Publish Message' to a send messages to the selected JMS Topic. Click on the navigation tree node 'Edit Properties' to a modify settings related to the selected JMS Topic. Click on the navigation tree node 'Subscribers' to view all available Subscribers for the selected JMS topic. 💥 Edit Properties ℤ Subscribers ⊽ 🔕 JMS_MONITORING_AGENT Dump Message Drain Messages √ S RIB_TAFR_ALLOC_TAFR_1 📋 Dump Message 📋 Drain Messages ⊽ 👰 ETASNIN 🕌 Publish Message K Edit Properties 🔻 🔕 JMS_MONITORING_AGENT 🚺 Dump Message Drain Messages V SUB_RMS_ASNIN_SUB_1 🚺 Dump Message Drain Messages V S RIB_TAFR_ASNINTOASNINL_TAFR_1 🚺 Dump Message 💼 Drain Messages V ETASNINFROMRIBTOISO 🍒 Publish Message 💥 Edit Properties V S JMS_MONITORING_AGENT 1 Dump Message Copyright © 2015 Oracle and/or its affiliates. All rights reserved.

1. Manage JMS Navigation Menu - The navigation system in the Manage tab provides accessibility to information via two kinds of nodes; the Data Nodes and the Action Nodes. Topics and the Subscriber nodes are referred to as the Data Nodes since they have no action associated with them directly. Action nodes provide links that leads to any action. The Topic and Subscriber nodes have a separate set of relevant action nodes.

The Action nodes available for a Topic are Publish Message and Edit Properties.

```
    ETALLOCFROMRMS
    Edit Properties
```

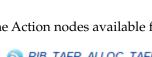
The Action nodes available for a Subscriber are Dump Message and Drain Messages.

▼ Some RIB_TAFR_ALLOC_TAFR_1
Image Dump Message
Image Drain Messages

Publishing Messages to a JMS Topic

To publish messages to a JMS Topic, take the following steps:

- 1. In the Manage tab, select JMS Topic.
- 2. Click Publish Message. The Publish Message window for the Topic displays.



Publish Message to ETALLOCFROMRMS				
Choose a JMS Header Name:	🖃 🤤 😣			
JMS Header Properties:	Property Name Property Value			
Tenant Manage Dayland from Lond Didu	No data to display			
Import Message Payload from Local Disk:	Browse No file selected.			
Enter Message Payload Here:				
	Publish Reset			

- **3.** Enter the following:
 - **a.** Choose a JMS Header Name Add a JMS Header property name if one is not already available. Once added, the header name is available to all the users using the application. The header names are not persisted and are lost when the server is restarted.
 - b. JMS Header Properties Add JMS Header property name and value.
 - **c. Import Message Payload from Local Disk** Select the file from the local file system.
 - d. Enter Message Payload Here Enter the complete XML message payload.
- 4. Click Publish.

Note: A message that is published to a JMS system is consumed by the registered subscriber and may eventually flow to the downstream applications. Once initiated, this process cannot be undone.

Message family is a case-sensitive field and needs to be entered consistently while testing. Variations in message family capitalization will result in inconsistencies in RIC.

Edit Properties

JMS Console application has a preference configuration that defines application level preferences. Based on the set preferences and business need, the application behavior can change. These preferences are persisted and are available even after a server bounce.

The following two preference settings are available:

- 1. Threshold for Max Messages Waiting on Topic It is the maximum number of messages waiting on a Topic after which a notification is generated. The notification can be a graphical alert on the Live Monitor graph or an Email Notification that is enabled. By default, this preference is set to a 100 messages. Once the threshold is met, alerts are fired.
- 2. Ignore This Topic For Inactivity Calculation When set to false, this property ignores the selected Topic for inactivity calculation. In other words, if this flag is

set to **Yes**, the selected Topic is not treated as inactive. The Topic will not be listed in the Live Monitor's *Inactive Topics by Inactivity Age* report even if no traffic exists. By default, this flag is set to **No** and the Topic is treated as inactive in the event when there is no message traffic.

To edit properties for a JMS Topic, take the following steps:

- 1. In the Manage tab, select JMS Topic.
- 2. Click Edit Properties. The Properties window for the Topic displays.
 - **a.** Threshold for Max Messages Waiting on Topic Provides the threshold for the selected Topic.
 - **b. Ignore This Topic For Inactivity Calculation -** Select from a Yes/No preference.

Properties for Topic ETALLOCFROMRMS				
Use this page to configure following properties for the selected topic. • Threshold for Max Messages Waiting on Topic: It is the maximum number of messages waiting on a topic after which notification should be generated. • Ignore This Topic For Inactivity Calculation: When set to faise this property will ignore the selected topic for inactivity calculation.				
Selected Topic: Threshold for Max Messages Waiting on Topic: Ignore This Topic For Inactivity Calculation:	ETALLOCFROMRMS			
	Save Changes			

3. Click Save Changes.

Enabling Email Notification Alerts

Apart from monitoring alerts using the Live Monitor window when the system is offline, you can configure email notifications for an alert that requires an administrator's attention.

To enable email notifications, take the following steps:

 On the WebLogic Administrator Console's left side menu, click Services > Mail Sessions and create a New mail session. For Mail Session Properties, enter the values and click Next. The following is an example of values:

Name: JmsConsoleMailSession

JNDI Name: mail/JmsConsoleMailSession

Session Username: Administrator's email id (eg- admin@example.com)

Session Password: Email server authentication password

Confirm Same Password: Enter same email server authentication password

JavaMail Properties:

```
mail.debug=true;
mail.smtp.user=exampleuser@sample.com;
mail.from=exampleuser@sample.com;
mail.smtp.host= sample.com;
mail.to=exampleuser@sample.com,exampleuser2@sample.com;
mail.smtp.auth=true;
mail.smtp.port=465;
mail.smtp.socketFactory.class=javax.net.ssl.SSLSocketFactory;
```

mail.smtp.socketFactory.port=465; mail.transport.protocol=smtp

ORACLE WebLogic Server Ad	Invasionation Console 12:		
Change Center	🌒 Home Log Cut. Preferences 🔛 Record Help		Minkume, weblock Connected for adf_th
View changes and restarts	Here Currency of Mail Deserved Institute Industry	· · · · · · · · · · · · · · · · · · ·	
Configuration editing a enabled. Future	Settings for InstConsoleHalliession		
changes will automatically be activated as you modify, add or delete terms in the domain.	Configuration Targets Notes		
Domain Structure	(Jam)		
et, danae • P Environment Doptyments 19 Senices F Heinaphij - Dati Scorem •	Use the page to configure a mail assoce, which makes as * Indicates required tests	pdombers to access a pre-configured javaar.mail.Seconion of	pert through JHOE
Fernalized Mores Foreign 2422 Providens	Rater	Instantifiationan	The same of this real assain. Over you create a real assaint, you cannot change to same. No ING_
- INK Reportes - INK DINY Cartes - ICON	🍓 * 3MDE Ramet	mail/JmsConsoleMailE	The RCD runks that modules use to access the runk real section. Here \$40
Had Sevene -	Constant (Sensitive Universities)		The partnerse to be used to create an authenticated JavaHel Sectors 2 that a root set, it will be assumed that the tension 4 not to be authenticated. Here \$40a
Hone do 1 D	🐔 Session Passacord:		The parameter to be used to create an authoritizated lawarks Sensor. Note betw.
Configure access to lavareal Target mail sessions Debts real sessions	Castlera Session Passavirti		
	AreaHall Properties:		The configuration options and over authentication data that this real vesion over to elevant with
System States II	mail.sotp.starttls.enable=true; mail.sotp.vser		a mat server. Each property that you specify overvides the default property value as defined by the Jacobia Art Dengy Specification. More below.
Health of Burring Servers	34		
Pailed (0) Critical (1) Overbaded (1)	mail.smrp.pirt=445) mail.from= mail.dekopttras/ mail.emtp.sockstFactory.port=445;		

2. Select the Mail Session Target to be the managed server hosting JMS Console application. Click **Finish**. On completing these steps, alerts are generated by JMS Console which triggers email notifications to the configured email addresses.

ORACLE WebLogic Server As	ministration Console 12c		0
Change Center	A Home Lag Out, Preferences 🐼 Record Holp	9	Welcome, weblogic Connected to: adf_domain
View changes and restarts	Nona > Summary of Mail Sensitives		
Configuration editing is enabled. Future changes will automatically be estivated as you	Create a New Mail Session		
modify, add or delete farm in this domain.	Bach [New] [Kenth] [Genost]		
Domain Structure	Mail Session Targets		
eff, dowin e B Endoorwet Doptyments B Switzen B Messaging - Data Source - President Some - President Some	sension.		applications that have been digitized to the selected servers or clusters can use this mult In general, such a deployment ensures that if the digitizement fails for one active server, it
-Wark Contents	Servers	2	
- 30%, Rasjistrian - 30%, Entity Caches ECEN	AdminServer		
Hall Seeking	🗹 pro-console-server		
How do L	Mach. [Null [fresh] [Genoel]		
Configure access to JavaMail Target read annalors			

Note: For more information on setting up the Mail sessions on WebLogic, see the Oracle® WebLogic Administrator's Guide 12c Release.

Resetting Preferences to Default Factory Settings

To reset the set preferences across all the Topics to default setting, take the following steps:

1. Go to WebLogic domain home and locate and delete jms-console hidden folder.

cd \$MW_HOME/user_projects/JMS_CONSOLE_DOMAIN/rm -rf .jms-console

2. Restart the server hosting the application.

Dump Message

A JMS administrator or a business user can use this feature to analyze payload data or the message content. This feature lets you dump, or download, the messages to the file system. While troubleshooting messaging or integration problems where messages are stuck on a Topic, you can dump messages to file system and replay them at a later date. You need expertise to execute this process. Make sure you consider message sequencing while replaying the messages.

To dump/download messages to a file system for a Subscriber, take the following steps:

- 1. In the Manage tab, select the Subscriber.
- 2. Click Dump Message. The Dump Messages window for the Subscriber displays.
 - a. Starting Index Specify the index to begin dumping the messages.

Dump Messages for RIB_TAFR_ALLOC_TAFR_1	
Messages waiting for the subscriber:	79
Selected Topic:	ETALLOCFROMRMS
Selected Subscriber:	RIB_TAFR_ALLOC_TAFR_1
Starting Index:	0 🚔 * Number of Messages to Dump: 1 🚔
	Dump Messages

- b. Number of Messages to Dump Specify the number of messages to dump.
- **3.** Click **Dump Messages**. After a successful message dump, the location to the messages is displayed. The messages are downloaded from the AQ JMS server to the WebLogic server and not the client/local computer for security reasons.

Note: Dumping messages can be an expensive operation depending on the number of messages being dumped. It may have an impact on the Messaging application.

Drain Messages

Use this feature to delete messages from JMS Topics permanently. An Administrator can use the Drain Messages feature to delete messages while troubleshooting messaging / integration problems where messages are stuck on a Topic. Use this feature only after analyzing the message using the Dump Message feature.

To drain messages for a Subscriber, take the following steps:

- 1. In the Manage tab, select the Subscriber.
- 2. Click Drain Messages. The Drain Messages window for the Subscriber displays.
 - a. Number of Messages to Drain Specify the number of messages to drain.

Drain Messages from RIB_TAFR_ALLOC_TAFR_1				
Messages waiting for the subscriber:	79			
Selected Topic:	ETALLOCFROMRMS			
Selected Subscriber:	RIB_TAFR_ALLOC_TAFR_1			
Number of Messages to Drain:				
	Drain Messages			

3. Click **Drain Messages**.

Note: Incorporate due diligence while using the Drain Messages feature since it deletes the messages permanently from JMS system. This process cannot be undone.

A

Appendix: JMS Console Installation Checklist

Property Name in	Description	Edit able	Sample Value (only for
the JSON file DataSourceDef.AqDa taSource.dataSourceN ame	Description Name of the datasource, the installer will create to connect to the AQ database	? No	editable fields) N/A - DO NOT CHANGE THE DEFAULT VALUE
DataSourceDef.AqDa taSource.dataSourceC lass	DataSource class, the installer will use to configure the data source	No	N/A - DO NOT CHANGE THE DEFAULT VALUE
DataSourceDef.AqDa taSource.dataJndiNa me	JNDI name used by JMS Console to connect to the AQ database	No	N/A - DO NOT CHANGE THE DEFAULT VALUE
DataSourceDef.AqDa taSource.jdbcUrl	JDBC URL used by JMS Console to connect to the AQ database	Yes	jdbc:oracle:thin:@//example.c om:1522/pdborcl
DataSourceDef.AqDa taSource.jdbcuserAlia s	JDBC User Alias used by JMS Console to connect to the AQ database	No	N/A - DO NOT CHANGE THE DEFAULT VALUE
DataSourceDef.AqDa taSource.jdbcUser	JDBC User Name used by JMS Console to connect to the AQ database	No	N/A - DO NOT CHANGE THE DEFAULT VALUE
DataSourceDef.AqDa taSource.jdbcPasswor d	JDBC Password used by JMS Console to connect to the AQ database	No	N/A - DO NOT CHANGE THE DEFAULT VALUE
MiddlewareServerDef .JmsConsoleAppServ er.weblogicDomainN ame	Name of the Weblogic domain on which JMS Console will be deployed	Yes	jmsconsole_domain
MiddlewareServerDef .JmsConsoleAppServ er.weblogicDomainH ome	Absolute path to the Weblogic domain	Yes	/usr/local/Oracle/Middlewa re/user_ projects/domains/jmsconsole _domain
MiddlewareServerDef .JmsConsoleAppServ er.weblogicDomainA dminServerUrl	Weblogic Admin Server URL of the domain being used for deployment of the app.	Yes	t3://example.com:7001

Property Name in the JSON file	Description	Edit able ?	Sample Value (only for editable fields)
MiddlewareServerDef .JmsConsoleAppServ er.weblogicDomainA dminServerProtocol	Weblogic Domain Admin Server Protocol, the protocols used for the deployment of the app.	Yes	t3/ t3s
MiddlewareServerDef .JmsConsoleAppServ er.weblogicDomainSe rverHost	Name of the host machine where Weblogic server is installed.	Yes	example.com
MiddlewareServerDef .JmsConsoleAppServ er.weblogicDomainSe rverPort	Weblogic Domain Server Port, the port number of the managed server on which the app will be deployed.	Yes	7002
MiddlewareServerDef .JmsConsoleAppServ er.weblogicDomainUs erAlias	Weblogic Domain User Alias, installer will use to bind the user to the Weblogic server admin user	No	N/A - DO NOT CHANGE THE DEFAULT VALUE
MiddlewareServerDef .JmsConsoleAppServ er.weblogicDomainTa rgetManagedServerN ame	Weblogic Domain Managed Server Name, the name of the managed server on which JMS Console will be deployed	Yes	jmsconsole_server
MiddlewareServerDef .JmsConsoleAppServ er.jmsConsoleAdmin UiUrl	JMS Console Admin UI URL, URL to access jms-console application GUI.	Yes	t3://example.com:7002/jms-c onsole
MiddlewareServerDef .JmsConsoleAppServ er.jmsConsoleAdmin UiUserGroup	JMS Console Admin UI User Group, the name of the User Group which is authorized to access JMS Console	No	N/A - DO NOT CHANGE THE DEFAULT VALUE
MiddlewareServerDef .JmsConsoleAppServ er.jmsConsoleAdmin UiUserAlias	JMS Console Admin UI User Alias, installer will use the alias to bind the user with the application	No	N/A - DO NOT CHANGE THE DEFAULT VALUE
MiddlewareServerDef .JmsConsoleAppServ er.jmsConsoleAdmin UiUser	JMS Console Admin UI User, installer will retrieve the username from wallet and create the user on Weblogic. This user name should be used to login to the app.	No	N/A - DO NOT CHANGE THE DEFAULT VALUE
MiddlewareServerDef .JmsConsoleAppServ er.jmsConsoleAdmin UiPassword	JMS Console Admin UI Password, installer will retrieve the password from wallet and create the user on Weblogic. This password should be used to login to the app.	No	N/A - DO NOT CHANGE THE DEFAULT VALUE

Glossary

Family

The valid message family to which the message belongs. Each message family contains information specific to a related set of operations on a business entity or related business entities.

Message Type

Each message family contains a set of sub-formats specific to the business event triggering message publication. The term message type embodies this specific sub-format. For example, a Purchase Order message family can contain message types such as Create PO Header, Create PO Detail, Update PO Header, or Delete PO Detail.

Thread Value

The thread value is used for parallel processing of messages within the same family. This value is added to the message during publication to JMS so that it can be routed through a specific adapter and/or process.

Alert

A system generated event that occurs when the set threshold is met.

Snapshot of Messages

The current state of the messages stored in-memory to enable users to browse through the message content even if messages are consumed by the subscribers.

JMS Header Properties

A set of properties (name-value pairs) that can be set as part of JMS Message XML Headers. For example, the header properties used in a RIB System like threadValue, appName, retryLocation, etc.