Oracle® Retail Integration Cloud Service

Java Messaging Service Console Guide Release 19.0.000 F25441-02

February 2020



Oracle Retail Integration Cloud Service Java Messaging Service Console Guide, Release 19.0.000

F25441-02

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Primary Author: Sanal Parameshwaran

Contributing Author: Alex Meske

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Oracle Retail Integration Cloud Service Java Messaging Service Console Guide, Release 19.0.000

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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

This 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 documentation set:

- 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 Implementation Guide
- Oracle Retail Integration Bus Installation Guide
- Oracle Retail Integration Bus Operations Guide
- Oracle Retail Integration Bus Hospital Administration Guide
- Oracle Retail Integration Bus Support Tools Guide
- Oracle Retail Functional Artifacts Guide
- Oracle Retail Functional Artifact Generator Guide

- Oracle Retail Service-Oriented Architecture Enabler Tool Guide
- Oracle Retail Service Backbone Developers Guide
- Oracle Retail Service Backbone Oracle Retail Service Backbone Implementation Guide
- Oracle Retail Integration Console (RIC) User Guide
- Oracle Retail Service Backbone Security Guide
- Oracle Retail Bulk Data Integration Implementation Guide
- Oracle Retail Bulk Data Integration Installation Guide
- Oracle Retail Financial Integration for Oracle Retail Merchandise Operations Management and Oracle Financials Implementation Guide
- Oracle Retail Financial Integration for Oracle Retail Merchandise Operations Management and Oracle Financials Installation Guide
- Oracle Retail Job Orchestration and Scheduler Implementation 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, 19.0.000 or 19.0.0) or a later patch release (for example, 19.0.010 or 19.0.1). 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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Conventions

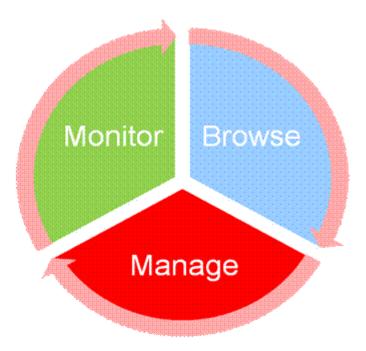
The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated 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

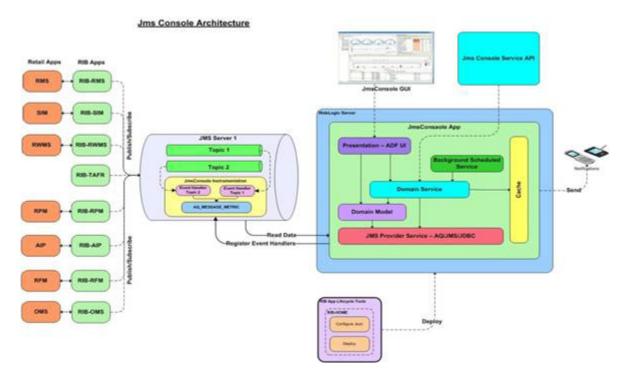
The architecture of JMS Console employs a modular design using separate layers for domain, service, and presentation. The service layers are implemented using stateless session beans using standard JavaEE 7 specifications. The presentation layer uses Oracle Application Development Framework (ADF).

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.

JMS Console 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 19.x.x RIB but customers should be able to use 19.x.x JMS Console in a 19.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.

Accessibility

Accessibility involves making your application usable for differently abled persons such as low vision or blindness, deafness, or other physical limitations. This means creating applications that can be used without a mouse (keyboard only), used with a screen reader for blind or low-vision users, and used without reliance on sound, color, or animation and timing.

JMS Console provides the ability to support the above accessibility in the applications.

Users should be able to navigate to all parts and functions of the application using the Tab and arrow keys, without using any keyboard shortcuts. In addition to that, keyboard shortcuts merely provide an additional way to access a function quickly.

Keyboard shortcuts provide an alternative to pointing devices for navigating the page. There are five types of keyboard shortcuts that can be provided in ADF Faces applications:

- Tab traversal, using Tab and Shift+Tab keys: Moves the focus through UI elements on a screen.
- Accelerator keys (hot keys): bypasses menu and page navigation, and performs an action directly, for example, Ctrl+C for Copy.
- Access keys: Moves the focus to a specific UI element, for example, Alt+F for the File menu.
- Default cursor/focus placement: Puts the initial focus on a component so that keyboard users can start interacting with the page without excessive navigation.
- Enter key: Triggers an action when the cursor is in certain fields or when the focus is on a link or button.

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 (12.2.1.3.0), 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_12.2.1.3.0_infrastructure_Disk1_1of1.zip and download this file to your system.
- 2. Extract the contents of this zip file to your system. You will use the fmw_ 12.2.1.3.0_infrastructure.jar file to run the installer.
- **3.** Run the installer by executing the jar file:

java -jar fmw_12.2.1.3.0_infrastructure.jar

The Welcome window displays.

Oracle Fusi	on Middleware 12c Infrastructure Installation - Step 1 of 8 🛛 🛛 🖯 😝
Welcome	
🥥 Welcome	
Auto Updates	Welcome to the Oracle Fusion Middleware 12c (12.2.1.3.0) Infrastructure Installer.
Installation Location	Use this installer to create a new Oracle home that contains the Oracle Fusion Middleware
Installation Type	Infrastructure software. You can then install additional Fusion Middleware products that require the Infrastructure into the Oracle home, or you can use the Infrastructure to configure a WebLogic
Prerequisite Checks	Server domain for the deployment of Java and Oracle ADF applications.
Installation Summary	For more information, see Install, Patch, and Upgrade in the Oracle Fusion Middleware documentation library.
Installation Progress	occumentation nor any.
Installation Complete	Context-sensitive online help is available from the Help button.
	k
Helb	Copyright © 1996, 2017, Oracle and/or its affiliates. All rights reserved.

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

9 - Oracle Fusion Mi	ddleware 12c Infrastructure Installatio	n - Step 2 of 8
Auto Updates		
Welcome Auto Updates	Skip <u>A</u> uto Updates	
Installation Location	O Select patches from directory	
Installation Type	Location:	Browse
Prerequisite Checks	O Search My Oracle Support for Updates	
Installation Progress	Username:	
Installation Complete	Password:	
	Proxy Settings	Test Connection
	Search	
Help		< Back Next > Binish 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.

stallation Location	
Welcome	Qracle Home:
Auto Updates Installation Location	-) • Bro
Installation Type	Feature Sets Installed At Selected Oracle Home: Wew
Prerequisite Checks	
Installation Summary	
Installation Progress	
Installation Complete	

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		Charling and the sector			
Installation Type		Checking operating system			
Prerequisite Checks	-	Checking Java version used	to launch the installer		
Security Updates					
Installation Summary					
Installation Progress					
Installation Complete					
	Stop	Berun Skip	View Succes	sful <u>T</u> asks	View Log
		ecking operating system cert			
	💷 🖌 🗸 Ch	ecking Java version used to la	aunch 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	lleware 12c Infrastructure Installation - Step 6 of 9
Security Updates	
Welcome Auto Updates Installation Location Installation Type Prerequisite Checks Security Updates Installation Summary 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: Easier for you if you use your My Oracle Support email address/username. I gish to receive security updates via My Oracle Support. My <u>O</u> racle Support Password:
Help	< Back Next > Einish Cancel

9. Click Next. The Installation Summary window displays.

Oracle Fu	sion Middleware 12c Infrastructure Installation - Step 6 of 8	0
Installation Summary		
Welcome Auto Updates Installation Location Installation Type Prerequisite Checks Installation Summary	 Install Oracle Fusion Middleware 12c Infrastructure Installation Location Oracle Home Location: /home/dev03/WL5_Server/ Log File Location: /tmp/Oralnstall2018-03-26_11-59-44AM/install2018-03-26_1 M.log Disk Space Required: 2111 M8 Available: 391107 M8 	1-59-44A
installation Complete	■ Feature Sets to Install Administration Console Additional Language Help Files 12.2.1.3.0 CIE WLS Config 12.2.1.3.0 Enterprise manager 12.2.1.3.0 VUS for FMW 12.2.1.3.0 FMW Platform Generic 12.2.1.3.0 OPatch 13.9.2.0.0 Toplink Developer 12.2.1.3.0 Core Application Server 12.2.1.3.0 Coherence Product Files 12.2.1.3.0 Web 2.0 HTTP Pub-Sub Server 12.2.1.3.0 WebLogic (Sch 12.2.1.3.0 WebLogic (Sch 12.2.1.3.0 Third party JDBC Drivers 12.2.1.3.0 WebLogic Evaluation Database 12.2.1.3.0 Fusion Middleware Maven Support 12.2.1.3.0 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 th use the Back button.	e left pane or
Help	< <u>§ack</u> <u>N</u> ext >Install	Cancel

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

nstallation Progress	ware 12c Infrastructure Insta		
Welcome			
Auto Updates		100%	
Installation Location			
Installation Type	Prepare		
Prerequisite Checks	🖌 Сору		
Security Updates	Generating Libraries		
Installation Summary	Performing String Substitut	tions	
Installation Progress	V Linking		
	🖋 Setup		
Installation Complete	Saving the inventory		
	 Post install scripts 		
	View Messages	▼ <u>V</u> jew Successful Tasks	View Lo
	Maria Sta	Hardware and Engineered to Wo	

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			
epository Creation Uti	lity				
Welsome Create Repository Database Connection Der Select Components Schema Passwords Map Tablespaces Summary Completion Summary	Ratabase Type: Host Name: Port: Service Name: Username: Password: Bole:	Oracle Database For RAC database, specify VIP nar For SCAN enabled RAC database, 1521 User with DBA or SYSDBA privileg User with DBA or SYSDBA privileg SYSDBA One or more components may re	, specify SC ges. Examp	AN host as Host n	ame.
Help			< Back	Next > Fin	ish Canc

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	tility			7)
Velcome	Specify a unique prefix for all s and manage the schemas later		ession, so you can easily locate.	, reference,
Database Connection Details	Select existing prefix	80(168		*
Select Components		here		
Schema Passwords	Oreate new prefix:	INT		
and the second se		Alpha numeric only. Ca	nnot start with a number. No sp	ecial
Map Tablespaces	Component		Schema Owner	T
Summary	☐ Oracle AS Repositor	v Components	Schema owner	
Completion Summary	Be 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 ✓ Weblogic Servi		INT_MDS INT_WLS	
Hep			Back Next > Finish	Cancel

5. Click **Next**. Specify the password.

😸 🕘 Welcome - Step 5 of	8			
Repository Creation U	tility)
Welcome Create Repository Database Connection Details Select Components Schema Passwords		or main and auxiliary schema users. ords for all schemas ••• Alpha numeric only Cannot start w No special characters except \$, #		
Map Tablespaces Summary Completion Summary		rd: •••		
Help		< E	ack Next > Finis	h Cancel

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

				FUSION MIL	DDLEWARE
TT	Welcome Create Repository Database Connection Details Select Components			ablespaces, use the Manag	
Ĵ.	Schema Passwords	Component	Schema Owner	Default Tablespace	Temp Tablespace
I		Common Infrastructu	INT_STB	*INT_STB	*INT IAS TEMP
φ	Map Tablespaces	Oracle Platform Secu	INT OPSS	*INT_IAS_OPSS	*INT IAS TEMP
5	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			13
Repository Creation U	tility				
	Database details: Host Name Port Service Name Connected As Operation Prefix for (prefixable) Schema Owne		a Load concurrently		
Completion Summary	Component	Schema Owner	Tablespace Type	Tablespace Name	÷
	Common Infrastructure Services	INT_STB	Default Temp Additional	INT_STB INT_IAS_TEMP [None]	Í
	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 Besponse File				

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

	We	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	Service Name Connected As Operation Execution Time RCU Logfile Component Log Directory View Log	1 minute 43 /tmp/RCU201		255123436/logs/rcu.log	2
	Compon Common Infrastructure Oracle Platform Securit User Messaging Servic Audit Services Append Audit Services Append Audit Services Viewer Metadata Services Weblogic Services	Services by Services	Status Success Success Success Success Success Success Success Success	Time 00:09.296(sec) 00:15.123(sec) 00:13.288(sec) 00:12.093(sec) 00:09.258(sec) 00:09.258(sec) 00:12.097(sec)	Logfile(Click to view) stb.log opss.log ucsums.log iau_log iau_append.log iau_viewer.log mds.log wls.log
Help				< Back Next >	<u>Create</u> <u>Close</u>

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 Wi	zard - Page 1 of 8	00
Configuration Type			\bigcirc
🙊 Create Domain			
Templates			
Administrator Account			
Domain Mode and JDK			
Advanced Configuration			
Configuration Summary			
Configuration Progress	What do you want to do?		
End Of Configuration			
	Update an existing domain		
	Domain Location:		Scowse
	Create a new domain.		
Help	- <u>h</u>	< Each Next > Buist	Cancel

 Select Create a new domain, provide domain location, and click Next. The Templates window displays. By default, the Basic WebLogic Server Domain -12.2.1.3 [wlserver] check box is selected.

Select the Oracle JRF - 12.2.1.3 [oracle_common], Oracle Enterprise Manager - 12.2.1.3 [em], Oracle WSM Policy Manager - 12.2.1.3 [oracle_common], and WebLogic Coherence Cluster Extension - 12.2.1.3[wlserver] check boxes.

Templates			
	Create Domain Using Product Templates: Filter Templates: Type here	eviously applied ten	nplates B_cowse
	**		

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

dministrator Account		
Create Domain Templates Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources IDBC Test Advanced Configuration Configuration Progress End Of Configuration	Name Password Confirm Password	weblogic
		the password. Password must contain at least 8 alphanumeric characters w or special character.

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.

	Fusion Middleware Config	uration Wizard - Pag	e 5 of 12	_ X
Domain Mode and JDK				
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources Database Configuration Configuration Summary Configuration Progress End Of Configuration	Production Require the entry of		vord, and poll for application I, and do not poll for applica	
Help		< <u>B</u> ac	k Next > Binish	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 Wiz	ard - Page	6 of 12	_	
Database Configuration	туре			C	
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration		nnection to ai	itomatically configure th	e dataso	ources
<u>Component Datasources</u> JDBC Test		Name:	Driver (Thin) for Service		1521
Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Schema Owner: Sche	na Password			
	Connecting to the database serverOK Retrieving schema data from database server Binding local schema components with retriev Successfully Done.				
	Click "Next" button to continue.				
Help	1	< <u>B</u> ack	Next > Binisi	h	Cancel

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

JDBC Component Schem	na						\bigcirc
Create Domain	1 Ve	ndor:	- D	river.			-
Templates	08	MS/Service:	н	ost Name:		Port	
Application Location							
Administrator Account	50	hema Owner.	5	chema Password			
Domain Mode and JDK	Or	acle RAC configuration	on for component :	schemas:			
Database Configuration Type		O Convert to	GridLink O Cor	wert to RAC multi-	data sour	ce O Don't	convert
Component Datasources							
JDBC Test	Ed	its to the data above	will affect all che	cked rows in the t	able belov	κ.	
Advanced Configuration		Component Scher	na DBMS/Service	Host Name	Port	Schema Ow	Schema Passv
Configuration Summary		LocalSvcTbl Schen	1a		1521	INT_STB	
		OWSM MDS Schem	ið 🛛		1521	INT_MDS	
Configuration Progress		OPSS Audit Schem	ið		1521	INT_IAU_APPE	
 End Of Configuration 		OPSS Audit Viewer	St		1521	INT_IAU_VIEWI	
		OPSS Schema			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 Schem	а Те	st					æ 🕻	
Create Domain		Status	Component Schema		ID	BC Connection URL		
Templates			LocalSvcTbl Schema	and the second second				
Application Location		1	OWSM MDS Schema					
		1	OPSS Audit Schema	-				
Administrator Account		1	OPSS Audit Viewer :					
Domain Mode and JDK		1	OPSS Schema					
Advanced Configuration	To	Test S	elected Connections	Cancel Ter	sting			
JDBC Test Advanced Configuration								
Configuration Summary		Test S	elected Connections	Cancel Ter	sting			
Configuration Progress	Co	nnectio	n Result Log					
End Of Configuration	Driv URL Use Pas	er=ora = r=INT_ sword= . Test=	SELECT 1 FROM DUAL	chema				
			213: Test Successful!	et war rurre	ceful			1
			213: Test Successful 213: IDBC connection te	et was surce	eeful			

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.

😸 😑 Fusion Middleware Co	onfiguration Wizard - Page 8 of 19		
Advanced Configuration			
Create Domain Templates 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 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	< 8	ack Next > Emist	Cancel

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

Administration Server			FUSION MIDDLEWARE	
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Made Manager Managed Servers Clusters Configuration Lotaters Machines Deployments Targeting Services Targeting Services Targeting Configuration Progress End Of Configuration	Server Name Listen Address Listen Port Enable SSL SSL Listen Port Server Groups	37001		

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

Node Manager				
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Servers Hode Manager Managed Servers Colusters Coherence Clusters Machines Deployments Targeting Services Targeting Configuration Summary	Node Manager Type Per Domain Default I Per Domain Custom Node Manager Home Manual Node Manager Node Manager Creder Username: Password: Confirm Password: Must be the same as the at least one number or sy	Location cr Setup ttials weblogic 	ist contain at least 8 alphar	Brows
Configuration Progress End Of Configuration				

- 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 Templates	💠 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-SVP
Advanced Configuration						
Administration Server Node Manager Managed Servers						
Administration Server Node Manager Managed Servers Clusters Coherence Clusters						
Administration Server Node Manager Managed Servers Clusters Coherence Clusters Machines Deployments Targeting						
Administration Server Node Manager Managed Servers Clusters Coherence Clusters Machines	~					

12. Click Next. The Clusters window displays.

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

Clusters					
Create Domain	🕂 Add	Delete		9	Dis <u>c</u> ard Changes
Administrator Account	Cluster Name	Cluster Address	Frontend Host	Frontend HTTP Port	Frontend HTTPS Port
Database Configuration Type Component Datasources IDBC Test Advanced Configuration Administration Server Node Manager Managed Servers				*‡	*
Clusters Coherence Clusters Machines Deployments Targeting Services Targeting Configuration Summary Configuration Progress					

- **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	1	Discard Changes
Administrator Account	Cluster Name	Cluster Listen Port
Domain Mode and JDK	defaultCoherenceCluster	0
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		
Help		< Back Next > Finish Cancel

- 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					-		()
Create Domain Templates Administrator Account	Machine Unix Mac	hine 2elete				Discard	d Changes
Domain Mode and JDK Database Configuration Type	Name	Enable	Post Bind GID	Enable	Post Bind UID	Node Manager Listen Address	Node Manager
Component Datasources IDBC Test Advanced Configuration	new_UnixMachine_1		nobody		nobody	localhost	555
Administration Server Node Manager							
Clusters							
Contraction of the second s							
Clusters Coherence Clusters							
Clusters Coherence Clusters Coherence Clusters Machines Assign Servers to Machines Deployments Targeting Services Targeting							
Clusters Coherence Clusters Machines Assign Servers to Machines Deployments Targeting Services Targeting Configuration Summary Configuration Progress							
Clusters 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 -	Page	e 15 of 20 📃 🗙
Assign Servers to Machines			
Create Domain	Servers		Machines
Templates Administrator Account Domain Mode and JDK			Machine New_Machine_1 AdminServer
Domain Mode and JUK Database Configuration Type Component Datasources			
JDBC Test Advanced Configuration		>	
Administration Server Node Manager			
 Managed Servers Clusters 		8	
Coherence Clusters Machines			
Assign Servers to Machines Deployments Targeting Services Targeting			
Services Targeting Configuration Summary Configuration Progress End Of Configuration	Select one or more servers in the left pane and one button (>) to assign the server or servers to the mi		
Help		<	<u>Back Next > Einish</u> Cancel

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

Deployments Targeting		
Create Domain Create Domain Create Domain Comman Comman	Deployments wsm-pm Uloray Uloray Uloray Uloray Uloray Uloray Uloray Uloray Uloray Uloray Uloray adf.oracle.dom ain.webap. adf.oracle.dom ain.webap.anth-runtim adf.oracle.dom ain.webap.anth-runtim adf.oracle.dom ain.webap.anth-runtim adf.oracle.dom ain.webap.anth-httpc adf.oracle.dom ain.webap.apache.httpc adf.oracle.dom ain.webap.apache.httpc adf.oracle.dom ain.webap.apache.httpc adf.oracle.dom ain.webap.apache.httpc adf.oracle.dom ain.webap.apache.httpc adf.oracle.dom ain.webap.apache.httpc adf.oracle.dom ain.webap.apache.veloc adf.oracle.dom ain.webap.pach.weloc adf.oracle.dom ain.webap.pach.weloc adf.oracle.dom ain.webap.pach.weloc adf.oracle.dom ain.webap.pach.veloc adf.oracle.dom ain.webap.sumi-apis-ext em_common#12.4@12.10.4.0 em_score_ptc_public_pojo_jar emagentsdk.jar#12.4@12.10.4.0 y Select one or more Deployments in the left pane a right arrow button (>) to target the Applications t	Deployment Targets AdminServer AdminServer AdminServer MAPDCeployment MAP

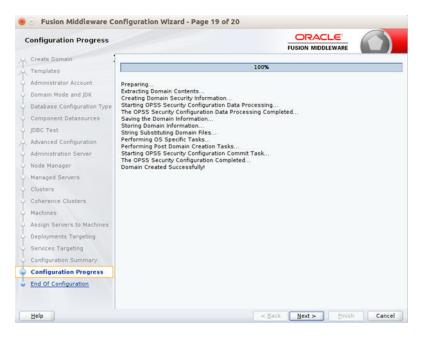
17. Click Next. The Services Targeting window displays.

0	Fusion Middleware Configuration Wizard	- Page 17 of 20 _ X
Services Targeting		
Create Domain	Services	Targets
Create Domain Templates Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Coherence Clusters Machines Assign Servers to Machines	Services Shutdown Class DMSShutdown JDBC System Resource CoalSvCTblDataSource Spss-audit-DBDS Spss-audit-ViewDS Startup Class AWT Application Context Startup Class MAT Application Class MAT Applicatio	Targets Server Image: Source Image: Sour
		WLDF System Resource
Deployments Targeting Services Targeting		Module-FMWDFW
Configuration Summary Configuration Progress End Of Configuration	Select one or more Services in the left pane and a arrow button (>) to target the services to the services	ne server or cluster in the right pane. Then use the right vers or clusters.
Help		< <u>Back</u> <u>Mext</u> Einish Cancel

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

Managed servers Imaged servers Imaged servers Author Oracle Corporation Clusters LocalSvcTblDataSource LocalSvcTblDataSource Location Location Coherence Clusters opss-adat-source Description Name Oracle Corporation Machines opss-addt-DBDS Description This extension template deploys Assign Servers to Machines Image with the source Location	Configuration Summary			
Internation Location Application Location Administration Account	Create Domain	View: Deployment 🔹		
Domain Mode and JDX Database Configuration Type Database Configuration Type Component Datasources JDBC Test Advanced Configuration Advanced Configuration Advanced Configuration Advanced Configuration Administration Server Node Manager Managed Servers Coherence Clusters Coherence Clusters Assign Servers to Machines Services Targeting Services Targeting Services Targeting Configuration Progress	Application Location	E 🕞 Server E 🍃 AdminServer	Author Location	Oracle Corporation
JDBC Teat Advanced Configuration Advanced Configuration Administration Server Node Manager Made Manager Made Manager Made Manager Made Manager Made Manager Made Manager Managed Servers Clusters Coherence Clusters Machines Assign Servers to Machines Deployments Targeting Services Targeting Configuration Progress	Database Configuration Type	 Shutdown Class DMSShutdown Startup Class 	Description Author	Enterprise Manager
Node Manager Managed Servers Clusters Coherence Clusters Assign Servers to Machines Deployments Targeting Services Targeting Services Targeting Configuration Progress	JDBC Test Advanced Configuration	 Web Services Startup Class JRF Startup Class ODL-Startup 	Description Author	emas plugin Template
Coherence Clusters opss-audit-viewDS Name Oracle WSM Console - Core Machines opss-audit-DBDS Description This extension template deploys Assign Servers to Machines mss-owsm Author Oracle WSM Console - Core Deployments Targeting mss-owsm Location Location 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 by selecting its name in the left pane, or by using the Back button.	Node Manager Managed Servers	☐ AWT Application Context Start ☐ ➢ jDBC ☐ ➢ jDBC Data Source ☐ LocalSvcTblDataSource	Description Author	Oracle WSM Policy Manager exten
Deployments Targeting Services Targeting Configuration Summary Configuration Progress	Machines	opss-audit-viewDS opss-audit-DBDS mds-owsm	Description	This extension template deploys a
Services Targeting Configuration Summary Configuration Progress			Location	
Configuration Progress	and the second se	Select Create to accept the above options and sta		
	Configuration Summary	selecting its name in the left pane, or by using the	Back button.	

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	 Oracle Weblogic Server Configuration Succeeded New Domain Int_domain Creation Succeeded Domain Location 	I
 Administrator Account Domain Mode and JDK Database Configuration Type 	Admin Server URL http://iocalhost:37001/console	
Component Datasources JDBC Test Advanced Configuration		
Administration Server Node Manager Managed Servers		
Clusters Coherence Clusters Machines		
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.

Change Center	A He	me Log Out Preferenc	es 🔊 Record Help		Q						W	Velcome, weblogic	Connected to: bulk do
		-										recome, weblogie	connected to: buik_u
View changes and restarts		Summary of Deployn											
lick the Lock & Edit button to modify, add or lelete items in this domain.	Summ	ary of Deployments											
Lock & Edit	Confi	iguration Control	Monitoring										
Release Configuration	This	page displays the list of	f Java EE applications ar	nd standalone appl	ication modules installed to	this domain.							
omain Structure	You	can update (redeploy) o	or delete installed applic	ations and module	s from the domain by select	ing the checkbox next	to the ap	plication n	ame and then us	ing the controls o	on this pag	e.	
JR_domain B-Domain Partitions B-Environment Deployments B-Services Security Realms	€ Cus	nstall a new application o stomize this table loyments	or module for deploymer	nt to targets in this	domain, dick Install .								
-Interoperability -Diagnostics	Ins	tall Update Delete	:									Showing 1 to 2	5 of 47 Previous N
		Name 🚕					State	Health	Туре	Targets	Scope	Domain Partitions	Deployment Ord
		adf.oracle.business	seditor(1.0, 12.2.1.3.0)				Active		Library	AdminServer	Global		100
		fadf.orade.domain((1.0, 12.2. 1.3.0)				Active		Library	AdminServer	Global		100
ow do L 🗉		madf.oracle.domain.	groovy(1.0, 12.2.1.3.0)				Active		Library	AdminServer	Global		100
Install an enterprise application		adf.oracle.domain.	webapp(1.0, 12. 2. 1. 3.0)			Active		Library	AdminServer	Global		100
Configure an enterprise application Update (redeploy) an enterprise application		adf.orade.domain.	webapp.antr-runtime(1	.0, 12.2.1.3.0)			Active		Library	AdminServer	Global		100
Monitor the modules of an enterprise		madf.oracle.domain.	webapp.apache.httpclie	ent(1.0, 12.2.1.3.0)		Active		Library	AdminServer	Global		100
application Deploy EJB modules		etadf.orade.domain.	webapp.apache.httpclie	nt-cache(1.0, 12.3	2. 1. 3.0)		Active		Library	AdminServer	Global		100
Install a Web application		madf.oracle.domain.	webapp.apache.httpcor	e(1.0, 12.2.1.3.0)			Active		Library	AdminServer	Global		100
/stem Status 🖂		adf.oracle.domain.	webapp.apache.httpmir	ne(1.0, 12.2.1.3.0)		Active		Library	AdminServer	Global		100
ealth of Running Servers as of 11:55 AM		eadf.oracle.domain.	webapp.apache.velocit	y(1.0, 12.2, 1.3.0)			Active		Library	AdminServer	Global		100
Failed (0)		madf.oracle.domain.	webapp.batk-bundle(1.	0,12.2.1.3.0)			Active		Library	AdminServer	Global		100
Critical (0)		adf.oracle.domain.	webapp.guava(1.0,12.	2.1.3.0)			Active		Library	AdminServer	Global		100
Ounderded (0)													

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 WebLogk Server n	Aminishaban Curashe 12z	
Change Center	🔹 Hane Lag Out References 🔜 Annual Help	Welcome, weldings: Converted to proc. committy domain
View-champes and restarts	Here charmers of Ingity-metric confunction installer (3.4.0.1.0.10) - (carriers of English-metric confluction and har(1.4,13.1.3.4.4))	
Out the Lot A GR Suffer to modify, and or	Settings for adl analy. Inside Analytic (1.4.13.1.2.6.4)	
deble lane in the duram.	Durines Targets Notes	
Lock & Em		
Petesse Cerliquotor	Citil the Javel & Julif Sufferine the Change Center is nodify the settings on the page.	
Personal Management	204	
pre, preside disease III Diseasement -) Deploymente	Use this pape to which the indicase line-or restances and durines to which you want to dealing (argin) the land diff lineary.	
Bi Services - Security Reality	terrers .	
In the second king In Degrammer	22 Advantances	
	2 per constitu	
	[im]	
	Online Lock & Jehrburter in the Charge Center to Health the entropy or the page.	
Nor de L. 11		
 Initial a Jane III Brany 		
 Target a loca III Bran; to a server or cluster 		
 Configure a local IE Reary Ladels Deligibility A local IE Reary 		
· Delete a law of the lawy		
System Status 0		
realth of Nummig Services		
Paint (0) Oracida		
Owners		
Name of Street o		

Extending an Existing Domain to Add ADF Runtime Libraries

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

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

	Fusion Middleware Configuration Wizard	- Page 1 of	6		_ ×
Configuration Type					
🔍 Update Domain					
A Templates					
Advanced Configuration					
Configuration Summary					
Configuration Progress					
End Of Configuration	What do you want to do?				
	Create a new <u>d</u> omain				
	● Update an existing domain				
	Domain Location:				BLowse
Help		< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	Cancel

- **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 12.2.1.3.0 [oracle_common], Oracle Enterprise Manager - 12.2.1.3.0 [em], Oracle WSM Policy Manager - 12.2.1.3.0 [oracle_common], and WebLogic Coherence Cluster Extension - 12.2.1.3.0 [wlserver] checkboxes.

Fu Templates	sion Middleware Configuration Wizard -	- Page 2 of 12 ORACLE FUSION MIDDLEW	
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources IDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Create Domain Using Product Templates: Filter Templates: Type here. Include all gelected template Available Templates Ø Basic WebLogic Server Domain - 122.1.3.0 (m) Oracle Enterprise Manager-Restricted JRF - 12 Oracle Enterprise Manager-Restricted JRF - 12 Oracle Enterprise Manager-Restricted JRF - 12.1.3.0 Oracle HTTP Server (Collocated) - 12.2.1.3.1 Oracle JRF SOAP/JMS Web Services - 12.2.1.3 Oracle JRF 12.2.1.3.0 Oracle JRF - 12.2.1.3.0 Oracle Restricted JRF - 12.2.1.3.0 Oracle Service Service - 12.2.1.3.0 Oracle Restricted JRF - 12.2.1.3.0 Oracle R	es [nclude all previous server] * .2.1.3.0 [em] ohs] 0 [ohs] 3.0 [oracle_common] 0 [oracle_common] common] common]	ily applied templates
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 0	Configuration Wizard - Page 6 of 12	
Database Configuration	Туре	
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration T Component Datasources	·	
DBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	DBMS/Service: Host Name: Schema Owner: INT_STB Schema Pass Get RCU Configuration Cancel	word: •••
	Connecting to the database serverOK Retrieving schema data from database serverOK Binding local schema components with retrieved data. Successfully Done.	ок *t
Help		ack Next > Einish Cance

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

JDBC Component Schem	a						
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration	Sche Oracl Edits	or: S/Service: ma Owner: le RAC configuration f Convert to Gri to the data above wi Component Schema	Hoi Sci for component so dLink O Conv	ert to RAC multi	data sour	Port:	convert Schema Passa
Configuration Summary Configuration Progress End Of Configuration		.o.calSvcTbl Schema DWSM MDS Schema DPSS Audit Schema DPSS Audit Viewer Sc DPSS Schema			1522 1522 1522	HIT HO HITE	

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

BC Component Scher	na Te	st				
Create Domain	. 🗸	Status	s Component Schema		JDBC Connection URL	
Templates		1	LocalSvcTbl Schema	and the second	and the second second	
Application Location		1	OWSM MDS Schema			
		1	OPSS Audit Schema			
Administrator Account		1	OPSS Audit Viewer :			
Domain Mode and JDK		1	OPSS Schema			
JDBC Test Advanced Configuration						
DBC Test	1.1					
Configuration Summary		Test S	elected Connections	cel Testing		
Configuration Progress	Co	nnectio	n Result Log			
Configuration Progress	Con	nponen /er=ora	n Result Log t Schema=LocalSvcTbl Schem icle.jdbc.OracleDriver			
Configuration Progress	Con Driv URL Use	nponen /er=ora	t Schema=LocalSvcTbl Schem icle.jdbc.OracleDriver STB			
	Con Driv URL Use Pas	nponen ver=ora = r=INT_ sword=	t Schema=LocalSvcTbl Schem icle.jdbc.OracleDriver STB			
Configuration Progress	Con Driv URL Use Pas SQI	nponen /er=ora er=INT	t Schema=LocalSvcTbl Schem icle.jdbc.OracleDriver STB			
Configuration Progress	Con Driv URL Use Pas SQI CFG	nponen /er=ora er=INT	t Schema=LocalSvcTbl Schem icle.jdbc.OracleDriver STB *** SELECT 1 FROM DUAL i213: Test Successful!			
Configuration Progress	Con Driv URL Use Pas SQI CFC	nponen /er=ora er=INT	t Schema=LocalSvcTbl Schem icle.jdbc.OracleDriver STB *** SELECT 1 FROM DUAL i213: Test Successful!			
Configuration Progress	Con Driv URL Use Pas SQI CFC	nponen /er=ora er=INT	t Schema=LocalSvcTbl Schem icle.jdbc.OracleDriver STB *** SELECT 1 FROM DUAL i213: Test Successful!			

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

	Fusion Middleware Configuration Wizard -	Page 6 of 15	_ ×
Advanced Configuration			
Update Domain Templates Database Configuration Type Component Datasources JDBC 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>Back</u> Next > Einis	sh 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.

Managed Servers	Fusion Middleware C	onfiguration Wizar	rd - Page 7 o		LE	
Templates	🔶 🗛 da 🛛 🖻 Ci	one X Delete		FUSION MIDD		ard Changes
Database Configuration Type Component Datasources	Server Name	Listen Address	Listen Port	Enable SSL	SSL Listen Port	Server Grou
JDBC Test Advanced Configuration	jms_console_server	•	17003		Disabled	Unspecified
Managed Servers						
Clusters Coherence Clusters						
Machines Deployments Targeting						
Services Targeting						
Configuration Summary Configuration Progress						
End Of Configuration						

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

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

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

	Fusion Middleware Configuration Wiza	rd - Page 9 of 15	_ × _
Coherence Clusters			
Update Domain		1	is <u>c</u> ard Changes
Templates			
Database Configuration Type	Cluster Name	Unicast Listen P	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>Finis</u>	h Cancel

11. Click Next. The Machines window displays.

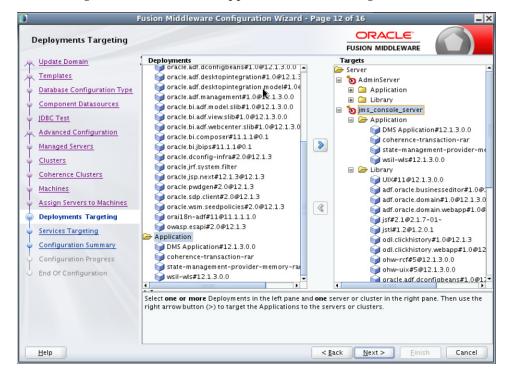
- **a.** Click **Add** to add a computer.
- **b.** Enter the Name and the Node Manager Listen Address.

3	Fusion Middleware Configura	tion Wizard - Page 10 of 16	_ ×
Machines			
Update Domain Templates Database Configuration Type Component Datasources	Machine Unix Machine	Node Manager Listen Address	Disgard Changes
IDBC Test Advanced Configuration Managed Servers Clusters Coherence Clusters Machines Assign Servers to Machines Deployments Targeting Services Targeting Configuration Summary Configuration Progress End Of Configuration	new_Machine_1		5556
Help	L	< Back Next	Einish Cancel

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

F F	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	
Component Datasources			jms_console_server	
UDBC Test				
Advanced Configuration				
 Managed Servers 		>		
Clusters				
Coherence Clusters				
Machines				
Assign Servers to Machines		_		
Deployments Targeting		\$		
 <u>Configuration Summary</u> 				
Oconfiguration Progress				
o End Of Configuration				
	Select one or more servers in the left pane and one button (>) to assign the server or servers to the m			right arrow
	succon (>) to assign the server or servers to the m	acrime		
Help		<	<u>Back Next > Einish</u>	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.

Configuration Summary	usion Middleware Configuration Wizard - P	age :		
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	A A A L L N D A A L L N D A A L L N D A A L L N D A A L L N D A A L L N D A A L L N D A A L L N N D A A L N N D A A L N N D A A L N N D A A L N N N D A A L N N N D A A L N N N D A A L N N N D A A L N N N D A A L N N N D A A L N N N D A A L N N N D A A L N N N D A A L N N N D A A L N N N D A A L N N N D A A L N N N D A A L N N N D A A L N N N D A A L N N N D A A L N N N D A A L N N N D A A L N N N N N N N N N N N N N N N N N		
Help		< <u>B</u> a	ack <u>N</u> ex	xt > 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.

Fus	ion Middleware Configuration Wizard - Page 16 of 16	_ ×
Configuration Success	FUSION MIDDLEWARE	
HUpdate Domain		
A Templates	Oracle Weblogic Server Configuration Succeeded	
Database Configuration Type	Existing Domain jms_domain Updated Successfully	
Component Datasources	Domain Location	
JDBC Test		
Advanced Configuration	Admin Server URL	
Managed Servers	http:/ 001/console	
Clusters		
Coherence Clusters		
Machines		
Assign Servers to Machines		
Deployments Targeting		
Services Targeting		
Configuration Summary		
Configuration Progress		
Configuration Success		
4		
Help	< gack Next > Einis	h Cancel

- 18. Click Finish to complete updating the existing domain with the ADF runtime.
- **19.** Start the Weblogic Admin and Manage Server.
- **20.** Set JTA timeout to 43200:
 - **1.** Log in to the Admin console.
 - **2.** Clock on the domain name.

3. Select the **JTA** tab and change the timeout value to 43200.

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 Servers

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

- 1. Download JmsConsole19.0.000ForAll19.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 (JmsConsole19.0.000ForAll19.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-lnx bin]\$./jms-com bad level value for property: .lev	
ISAGE: JmsConsoleDeployer SECURIT	Y_OPTION TASK_ACTION
: JmsConsoleDeployer {-setup	<pre>-credentials -use-existing-credentials} -deploy-jms-console-app</pre>
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.
-deploy-jms-console-app	: Configures WebLogic Server and deploy the $j \ensuremath{ms-console}$ 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.

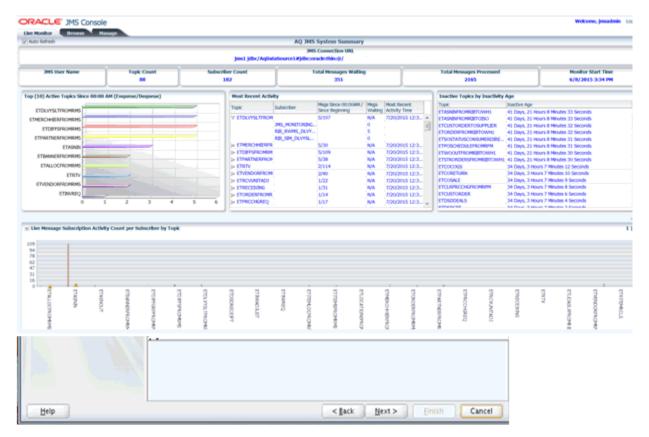
Note: Oracle recommends that you use the Mozilla Firefox Web browser to access the URL.

Websers	
ORACLE	
Sign In to JMS Console	
* Marriane	
*Passed	
* Jans Server (pas) .*	
Cancel Logn	
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- **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.

ORACLE' JMS Console		Welcome, jmsadmin	Logout O
Live Monitor Browse Manage			-
Discover Topics Search JMS Topic 🧕 😵	Discover JMS		
	Discover JMS Use this page to Browse the JMS Topics and Subscribers on your Messaging System. • Navigate to a Subscriber to view basic information for a JMS Subscriber and to browse the Messages waiting for a JMS Subscriber.		
JMS_MONITORING_AGENT S RIB_RMS_COCOGS_SUB_1	1		

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			Weitzene, Josefmin Logo
Live Monitor December Manager			
Discover Topics Search 345 Topic 9, 6			
V JHS Server : Jml V THE ETALLOCYROMIDHS	* 345 Server:	jmi jdojAgladašov tel Aybc tradethin	
JHS_MONITORING_AGENT	Tupic:	EDILLOCPROMIMS	
RIB_TAFR_ALLOC_TAFR_1	Subscriber Name:	RB_THR_ALLOC_TARR_L	
V ER ETASNEN	Messages waiting on topic:	79	
3KS_MONETORING_AGENT	Message Selector:	None	
RELANS, ASNR, SUR, I			
KR_TAVR_ASMINTOASMINL_TAVR_1			
I ETASNENTROMULIETOESO Ø JPS_MONTORINC_ACENT		* Start Index:	Court: 50 Tale Supplied of memorys Release Snapshot.
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7 EP ETASNOUT		5 1:45 PM	<remessages intallintegration="" it="" remessages*="" www.orack.com="" xmins+tritp:="" xmins.xii="Tritp://www.w3.org/2001/04.5chema-tr<br"><remessages 04.5chema-tr<="" 2001="" intallintegration="" it="" remessages*="" th="" tritp:="" www.orack.com="" www.w3.org="" xmins-tritp:="" xmins.com=""></remessages></remessages>
DHS_MONITORING_AGENT		5 1:45 PM	<80Messages kmins="http://www.orace.com/vtal/ntegration/it/httpressages" kmins.com/http://www.wd.org/2001/04/3chemain
RB_TAVR_ASHOUTTCHSNIN_TAVR_1		5 1:45 PM	<rdmesages 08l5drema-it<br="" 2001="" entite="http://www.oracle.com/vetal/integration/it/RdMesages" htep:="" http:="" retal="" www.ad.org="" www.sade.http:="" www.xade.com="" xminu-eix="http://www.w3.org/2001/04L5chema-in</th></tr><tr><th>RB_TWR_ASHOUTTOASHOT_TWR_1</th><th></th><th>5 1:45 PM
(5 1:45 PM</th><th><RDMstages xmins-"><rdmstages "non="" 09="" 2001="" concluded="" house="" htep:="" inner="" interesting="" multi-statements"="" non="" of="" org="" rdmstages'="" reads="" retal="" statements.<="" th="" the="" unite="" united="" van="" www.inade.com="" xmins-"http:="" xmins.xis="http://www.inade.com/retal/htep://www</th></tr><tr><th></th><th></th><th>5 1-25 (M</th><th>ethildensiae unite. "></rdmstages></rdmesages>
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KB_AMS_ASNOUT_SUB_1	Message Details		
V E ETBANNERFROMRINS	Jas Message Properties		Message Content
3HS_MONITORING_AGENT	Property	Value	Find 🔄 👂 🧑 Go to Line 🔿
у 😳 ЕТСІЛРЯССНАРКОНКРМ	.3M5_OradeConnectionED threadValue	100ec7/0500-07223e05320F4000a409e	1 childheavages .
3MS_MONETORING_AGENT	345_OracleOetveryMode	2	1 miles**btp://www.oracle.com/retail/integration/mil/Mildeseages* 2 miles:asi="http://www.wl.org/2001/065domes-instance"
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3. JMS_MONETORIANS_AGENT			1 slbjder Sypesykjaslaj/der Sypesykj 9 slbjder Sypesykjaslaj/der Sypesykj
RB_AMS_COCO65_SUB_1	- 1		13 sltjuhigt;1505t;/utogt/ 13 slt;stesspr;tstgutferghtwuffilugfesslt;/stesspr;
		Copyright (b) 2015 Oracle and/or #	
Help		<	Eack Next > Einish Cancel

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:	jms1_jdbc/AqDataSource1#jdbccorade:thim@{/
Topic:	ETASADI
Subscriber Name:	RB_RM5_ASND_SUB_1
Messages waiting on topic:	103
Message Selector:	([decode(dtms_acjms.get_ptype("appName", tab.user_data.header.properties), 100, dbms_acjms.get_strva("appName", tab.user_data.header.properties), null) IS NULL) OR (tab.user_data.header.get_string_property ("appName") = 'rb-rms") OR (tab.user_data.header.get_string_property ("appName") = 'rb-rms" AND (decode(dtms_acjms.get_ptype("retryLocation", tab.user_data.header.properties), 100, dbms_acjms.get_strva("retryLocation", tab.user_data.header.properties), 200, dbms_acjms.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	11
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	
Property JMS_OracleConnectionID threadValue JMS_OracleDeliveryMode JMS_OracleTimestamp	Value fcd463fe9ed875c2e04310358d0ae32f 1 2	Image: State Content xmins:xrm="http://www.oracle.com/retail/integration/ rib/Rib/Messages" xmins:xsi="http://www.w3.org/2001/XMLSchema- instance" xsi:schemal.ocation="1 om:7779/rib-func- artifact/integration/xsd/Rib/Messages.xsd"> <m:rib message=""> <m:rib message=""> <m:rib message=""> <m:rib message=""> <m:rib message<="" td=""> <m:rib messageid="">PublishingWebService:2014- 06-28 11:59:53.544 UTC <m:ribmessageid>PublishingWebService:2014- 06-28 11:59:53.544 UTC <ms:rib="ribmessageid>" <ms:rs2="http: <="" integration="" retail="" td="" www.oracle.com=""> bus/gateway/services/RoutingInfos/v1"> <name>4</name> <ns2:cdtl_name>4 <ns2:dtl_value></ns2:dtl_value></ns2:cdtl_name></ms:rs2="http:></ms:rib="ribmessageid></m:ribmessageid></m:rib></m:rib></m:rib></m:rib></m:rib></m:rib>	

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.

ive Monitor Browse Manage			
inage JMS Search JMS Topic	9.0		
MS Server : ims1		Manage JMS Topic	
ETALLOCFROMRMS	Ξ	Use the options lated to manage the selected Topic 'ETALLOCFROMRINS'.	
Publish Message			
K Edit Properties		 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. 	
✓ Subscribers		Click on the navigation tree node 'Subscribers' to view all available Subscribers for the selected JMS topic.	
🔻 🔕 JMS_MONITORING_AGENT			
🚺 Dump Message			
Drain Messages			
Dump Message			
Drain Messages			
ETASNIN			
Publish Message			
Kedit Properties			
✓ Subscribers			
V SUBSCIENCE			
Dump Message			
Drain Messages			
RIB_RMS_ASNIN_SUB_1			
Dump Message			
Drain Messages			
₩ - √ RIB_TAFR_ASNINTOASNINL_TAFR			
Dump Message			
Drain Messages			
Publish Message			
K Edit Properties			
▼ Subscribers			
V SUBSCIDERS			
Dump Message	+	1	

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
    Evaluation
    Publish Message
    Edit Properties
```

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

```
▼ Solve RIB_TAFR_ALLOC_TAFR_1
Image Dump Message
Imain 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
		No data to display
Import Message Payload from Local Disk:	۲	Browse No file selected.
Enter Message Payload Here:	\bigcirc	
		11 11
		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
	aximum number of messages waiting on a topic after which notification should be generated. false 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 (for example, 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	Invasitation Console 12c		
Change Center	🙊 Hone Lopitul Peterences 🖂 Record Help	9.	Minksone, webRopk Connected for add_d
View changes and restarts	inem charmony of Mathematical Linear Consultable Diseases		
Configuration editing a enabled. Future	Settings for InseConsoleHaltinsion		
changes will automatically be activated as you modify, add or delete terms in the domain.	Configuration Targets Notes		
Domain Structure	(Jee)		
et, divani P thivoenent Depoyments 19 Service P tenagtio P tenagtio P tenagtio	Use this page to configure a mall session, which enables ago * Indicates required fields	Wondows to access a pre-configured jarvax.mail.Secolor of	pert through JHOL
Fernalters Wores Foreign: 2422 Providents	Rater	Jrsc(unade#tablessee	The same of this roat assays. Over you create a road session, you cannot change its name. No Info-
- 176, Reptiles - 196, Entry Caches	3MD1 Name:	mail/Jms/Console/MailE	The SEC rune that modules use to access the matematics. Here bits,
- SCOM Hal Senators - Fac T3	🐔 Session Dermaner:		The partnerse to be used to create as authenticated, buildful Sectors, 2 that is left set, it will be assumed that the Sectors 4 not to be authenticated
Home dia L	🐔 Session Passeord:		The presented to be used to create an authoritized lawarbackeesers. Here belts,
Configure access to Invested Target mail seasons Debts mail seasons	Canfirm Session Passworth		
1	🛃 kevelikali Properties:		The configuration options and over authentication data that this real vession over to electric with
System States II	mail.setp.starttls.enable+trues mail.entp.uset		a mail server. Each property that you specify overvides the default property value as defined by the Jacobiat API Decays (specification). More below.
Health of Burring Servers	384	1	
Paint (x) Critical (1) Overbaded (1)	mail.smp.port+465) mail.from- mail.debugttum/ mail.emtp.sockstPactory.port+465;	•	

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	🗌 Home Log Out, Preferences 🐼 Record Help	9	Welcome, weblogic Connected to: adf_domain
View changes and restarts	None >Summary of Hall Seminers		
Configuration withing is evabled. Future changes will extravativally be activited as you modify, add or delete farms in this domain.	Create a New Mall Session Bach New! (Genost)		
Contain Structure	Mail Session Targets		
af Jonain + B Enkorrent Daykoyneth B Sentan R Hemaping — Data Sourcen — Prediket Source	session.		nly applications that have been displayed to the selected servers or chatters can use this mult 6. In general, such a displayment ensures that if the displayment fails for one active server, it
Poorign 3NEX Providers Work Contexts	Servers	19	
-304, Registries -304, Entity Caches	Administerver		
- KOM - Hall Senimp - File 11	😢 pros-console-server		
How do 1	Libecki (Niiit) (Smith) (Genoel)		
Configure access to JavaHol Target and amolese	And a second second fragman		

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:	1			
	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 the JSON file	Description	Edit able ?	Sample Value (only for editable fields)
DataSourceDef.AqDa taSource.dataSourceN ame	Name of the datasource, the installer will create to connect to the AQ database	No	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.