# **Oracle® Retail Integration Bus**

Java Messaging Service Console Guide Release 15.0 **E66258-01** 

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Oracle Retail Integration Bus Implementation Guide, Release 15.0

E66258-01

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Oracle Retail Integration Bus Java Messaging Service Console Guide, Release 15.0

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If you find any errors or have any other suggestions for improvement, then please tell us your name, the name of the company who has licensed our products, the title and part number of the documentation and the chapter, section, and page number (if available).

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# Preface

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

#### **Audience**

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

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#### **Related Documents**

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

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

- Oracle Retail Service-Oriented Architecture Enabler Tool Guide
- Oracle Retail Integration Bus Data Model
- Oracle Retail Payload Mapper 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

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When you install the application for the first time, you install either a base release (for example, 15.0) or a later patch release (for example, 15.0.1). 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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http://www.oracle.com/technetwork/documentation/oracle-retail-100266.ht
ml

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ml

(Data Model documents are not available through Oracle Technology Network. You can obtain them through My Oracle Support.)

# 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 6 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 7 and JavaEE 6

The following diagram describes the console architecture.



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

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

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

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

## Security

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

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

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

# Availability and Support Information

JMS Console is available for all RIB AQ customers, independent of RIB version (customers with older versions of RIB can also utilize JMS Console). However JMS Console will not be back ported to 13.x.x RIB but customers should be able to use 15.x.x JMS Console in a 13.x.x AQ JMS environment.

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

# **Understanding the Installation Pre-requisites**

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

#### Installation and Setup Instructions

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

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

#### **Pre-requisites**

JMS Console application requires Oracle WebLogic Server 12c (12.1.3), built with Java 7 (JDK 1.7 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\_12.1.3.0.0\_infrastructure\_Disk1\_lof1.zip and download this file to your system.
- 2. Extract the contents of this zip file to your system. You will use the fmw\_ 12.1.3.0.0\_infrastructure.jar file to run the installer.
- **3.** Run the installer by executing the jar file:

java -jar fmw\_12.1.3.0.0\_infrastructure.jar

The Welcome window displays.



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



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

O Ora	cle Fusion Middleware 12c Infrastructure Installation - Step 3 of 7	_ ×
Installation Type		
	<ul> <li>Eusion Middleware Infrastructure</li> </ul>	
Installation Type     Prerequisite Checks	• Fusion Middleware Infrastructure With Examples	
Installation Summary	□ Oracle Fusion Middleware 12c Infrastructure 12.1.3.0.0	<b></b>
Installation Progress	Core Server	
	Core Application Server 12.1.3.0.0	
<ul> <li>Installation Complete</li> </ul>	Coherence Product Files 12.1.3.0.0	
	Web 2.0 HTTP Pub-Sub Server 12.1.3.0.0	
	WebLogic SCA 12.1.3.0.0	
	WebLogic Client Jars 12.1.3.0.0	
	Oracle WebLogic Communication Services 12.1.3.0.0	
	Administrative Tools	
	Administration Console Additional Language Help Files 12.1.3.0.0	
	CIE WLS Config 12.1.3.0.0	
	Enterprise manager 12.1.3.0.0	
	Database Support	
	Thirdparty JDBC Drivers 12.1.3.0.0	
	Open Source Components	
	Third Party Jackson 12.1.3.0.0	
	Third Party Jersey 1.18.0.0.0	
	Third Party Maven Apache 3.0.5.0.0	
	JRF and Enterprise Manager	
	4	
Help	< <u>Back</u> Next> Einis	h Cancel

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

requisite Checks			
Velcome			
nstallation Location		100%	
nstallation Type	Checking operating system	1 certification	
	V Checking Java version use	d to launch the installer	
estallation Dreamers			
estallation Frogress			
istaliation complete			
	Stop Rerun Skip	View Successful Tasks	ViewLo
	Teren (1976)	<u> </u>	The second
	Checking operating system cert	ification	
Ū.	Checking Java version used to I	aunch the installer	

**7.** When the pre-requisite check completes successfully, click **Next**. The Installation Summary window displays.



8. Click Install. The Installation Progress window displays.

Oracle Fu	ion Middleware 12c Infrastructure Installation - Step 6 of 7
Installation Progress	
Y Welcome 💺	
Installation Location	100%
Installation Type	Dranara
Prerequisite Checks	
O Installation Summary	Copy     Copy     Copy     Copy     Copy
Installation Progress	Performing String Substitutions
Installation Complete	Linking
	✓ Setup
	Saving the inventory
	Post install scripts
	View <u>M</u> essages View Successful Tasks View Log
	Hardware and Software Engineered to Work Together
Help	< <u>Back</u> Next > Einish Cancel

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

O Oracle	Fusion Middleware 12c Infrastructure Install	ation - Step 7 of 7
Installation Complete	k	
Welcome Installation Location Installation Type Prerequisite Checks Installation Progress Installation Complete	Install Oracle Fusion Middleware 12c Infrastructure Installation Location Oracle Home Location: /home/dev02/Oracl Log File Location: /tmp/OraInstall2015-07- M.log Feature Sets Installed Successfully WLS for FMW 12.1.3.0.0 Enterprise manager 12.1.3.0.0 Oracle WebLogic Communication Services 1	<b>we</b> e/Middleware/Oracle_Home 14_12-33-38PM/install2015-07-14_12-33-38P 2.1.3.0.0
	See the online help for next steps after installation. Oracle Fusion Middleware 12c Infrastructure installati	on completed successfully
Help		< <u>Back</u> <u>N</u> ext > <u>Finish</u> Cancel

# **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       Database Type:       Oracle Database         Database Connection Details       For FAC database, specify VP name or one of the Node name as Host name.         Schem a Passwords       Host Name:       For FAC database, specify VP name or one of the Node name as Host name.         Map Tablespaces       Summ any       Completion Summary       User with DBA or SYSDBA privileges. Example:sys         Bole:       SySDBA       One or more components may require SYSDBA role for the operation to succeed.	epository Creation Utility	Database Co	ORACLE FUSION MIDDLEWARE
Select Components       For RAC database, specify VIP name or one of the Node name as Host name For SCAN enabled RAC database, specify SCAN host as Host name.         Schema Passwords       Map Tablespaces         Summary       Service Name:         Completion Summary       Sys         User with DBA or SYSDBA privileges. Example:sys         Bole:       SySDBA         One or more components may require SYSDBA role for the operation to succeed.	Velcome Create Repository Database Connection Details	Database Type:	Oracle Database
Summary       Service Name:         Completion Summary       Liser with DBA or SYSDBA privileges. Example:sys         Dasword:       Evero         Bole:       SYSDBA         One or more components may require SYSDBA role for the operation to succeed.	Select Components     Schema Passwords     Man Tablespaces	Port:	For RAC database, specify VIP name or one of the Node name as Host name. For SCAN enabled RAC database, specify SCAN host as Host name. 1521
Username:     ys       User with DBA or SYSDBA privileges. Example:sys       Password:     •••••       Bole:     SYSDBA       One or more components may require SYSDBA role for the operation to succeed.	Completion Summary	∑ervice Name:	
Eassword:  Eassword:  SYSDBA  GrySDBA  GrySDBA		Username:	sys User with DBA or SYSDBA privileges. Example:sys
Bole: SYSDBA One or more components may require SYSDBA role for the operation to succeed. Messages:		Password:	
Messages:		Eole:	SYSDEA One or more components may require SYSDEA role for the operation to succeed.
	Me	ssages:	

**4.** Click **Next**. Specify the prefix to be used for the schema user creation. For example, DEV.

<b>4</b>	Select Componer	its - Step 3 of 7		_ <b>-</b> ×
Select Components				7)
Welcome     Create Repository     Database Connection Details     Select Components     Schem a Passwords     Map Tablespaces	Specify a unique prefix for all sc manage the schemas later. Select existing prefix: Create new prefix:	ADF DEV Alpha numeric only. Ca characters.	ion, so you can easily locate, refe nnot start with a number. No spe	rence, and
Completion Summary	Components	/ Components mas ices Append Viewer n Security Services g Service ices structure Services rator re	DEV_MDS DEV_IAU DEV_IAU DEV_IAU_APPEND DEV_IAU_VIEWER DEV_OPSS DEV_UMS DEV_WLS DEV_STB	
	Messages:			
Help		<	K <u>B</u> ack <u>N</u> ext > <u>F</u> inish	Cancel

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

<u></u>	Schema P	asswords - Step 4 of 7		_ 🗆 ×
Repository Creation Utili	ty			<
<ul> <li>Welcome</li> <li>Create Repository</li> <li>Database Connection Details</li> <li>Select Components</li> <li>Schema Pass words</li> <li>Map Tablespaces</li> <li>Summary</li> <li>Completion Summary</li> </ul>	Define passwords for m  Use same password:  Define password:  Confirm Password:  Use main schema pa  Specify different pas  Messages:	ain and auxiliary schema users. s for all schemas Alpha numeric only.Cannot start with No special characters except: \$, #,	] h a number. 	
Help		]>	ack <u>N</u> ext > E	nish Cancel

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

	Map Tables	paces - Step 5 of 7	1	
Repository Creation Util	ity			
Create Repository Database Connection Details	Default and temporary tab To create new tablespaces	lespaces for the selecte or modify existing tabl	ed components appear in th lespaces,use the 'Manage Ti	e table below. ablespaces Button' Manage <u>T</u> ablespaces
Sect Components     Schema Passwords     Map Tablespaces     Summary     Completion Summary	Component     Metadata Services     Audit Services Append     Audit Services Append     Audit Services Viewer     Oracle Platform Secu     User Messaging Service     WebLogic Services     Common Infrastructu     * Default tablespaces (spec	Stiering owner DEV_INDS DEV_IAU_DEV_IAU_PPEND DEV_IAU_VIEWER DEV_OPSS DEV_UMS DEV_WLS DEV_STB	on files) are to be created u	Perup Tablespace *DEV_LAS_TEMP *DEV_LAS_TEMP *DEV_LAS_TEMP *DEV_LAS_TEMP *DEV_LAS_TEMP *DEV_LAS_TEMP *DEV_LAS_TEMP *DEV_LAS_TEMP *DEV_LAS_TEMP
Help			< <u>B</u> ack <u>N</u> ext >	Einish Cancel

7. Click Next. The Summary window displays.

#	Summary - Ste	p 6 of 7		_ 🗆 X
Repository Creation Utili	ity			
Weicome     Create Repository     Database Connection Details     Select Components     Schema Passwords     Non Children	Database details: Host Name: 1521 Service Name: Connected As: sys Operation: System and Data Lo Prefix for (prefixable) Schema Owne	and concurrently		
Wap Tablespaces	Component	Schema Owner	Tablesnace Tune	Tableroace Name
Completion Summary	Metadata Services	DEV_MDS	Default Temp Additional	DEV_MDS DEV_IAS_TEMP
	Audit Services	DEV_IAU	Default Temp Additional	DEV_IAS_IAU DEV_IAS_TEMP
	Audit Services Append	DEV_IAU_APPEND	Default Temp	DEV_IAS_IAU DEV_IAS_TEMP
	Audit Services Viewer	DEV_IAU_VIEWER	Default Temp	DEV_IAS_IAU DEV_IAS_TEMP
	Oracle Platform Security Services	DEV_OPSS	Additional Default Temp Additional	None DEV_IAS_OPSS DEV_IAS_TEMP
	User Messaging Service	DEV_UMS	Default Temp Additional	DEV_IAS_UMS DEV_IAS_TEMP
	WebLogic Services	DEV_WLS	Default	DEV_WLS
Help			<gack next=""></gack>	<u>Create</u> Cancel

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

*	Completion Sum	mary - Step 7 of 7			_ = = ×
Repository Creation Util	ity				<b>(</b>
Velcome Create Repository Database Connection Details Select Components Select Compo	Database details: Host Nam e: Port: Service Name: Connected As: Operation: //Constructed As: Dogstation: //Database /	1521 sys system and Data Load or ystem and Data Load or ystem and Data Load or system and Data Load or ware/Oracle_Home/ora 4 minutes 12 seconds rou.log Owners.DEV	oncurrently cle_common/rcu/log/l cle_common/rcu/log/l	ogdir.2015- ogdir.2015-	07-14_12-47/ 07-14_12-47
	Component Metadata Services Audit Services Audit Services Append Audit Services Viewer Oracle Platform Security Servi User Messaging Service WebLogic Services Common Infrastructure Servi	Status Success Success Success Success Success Success Success Success	Time 00:14.916(sec) 00:18.81(sec) 00:09.190(sec) 00:09.290(sec) 00:14.48(sec) 00:11.848(sec) 00:10.489(sec)	Logfile m iau iau o ucc	(Click to view) nds.log iau.log sppend.log yss.log yss.log sums.log stb.log
Help	11		< ≣ack <u>N</u> ext >	<u>C</u> reat	e <u>C</u> lose

#### Creating a WebLogic Domain with ADF Runtime Libraries

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

1. Run the config.sh from the <ORACLE\_HOME>/oracle\_common/common/bin folder. The Configuration Type window displays.

	Fusion Middlew	ware Configuration Wizard	- Page 1 of	8		_ ×
Configuration Type			FL			
Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Progress End Of Configuration	What do you want Create a newg Update an exit Domain Location	nt to do? gomain isting domain n: ddleware/Oracle_Home/user_ ain.	.projects/dom	ains/jms_conso	le_domair	Browse
Help			< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	Cancel

Select Create a new domain and click Next. The Templates window displays. By default, the Basic WebLogic Server Domain - 12.1.3.0 [wlserver] check box is selected.

Select the Oracle JRF - 12.1.3.0 [oracle\_common] and WebLogic Coherence Cluster Extension - 12.1.3.0 [wlserver] check boxes.

	Fusion Middleware Co	nfiguration Wizard -	Page 2 of 11	_ × _
Templates				
Create Domain Templates Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Create Domain Using, Template Categories: Available Templates Sasic WebLogic Ser Oracle Enterprise H Oracle User Messa Oracle User Messa Oracle JRF 00APJIM Oracle JRF - 12.1.3 WebLogic Cohren WebLogic Advance WebLogic Advance WebLogic Advance Create Domain Using Template location: //	Product Templates: All Templates ver Domain - 12.1.3.0 [wl danager - 12.1.3.0 [em] ging Service Basic - 12.1.3 Manager - 12.1.3.0 [oracle 1 Service - 12.1.3.0 [oracle Service - 12.1.3.0 [oracle Services - 12.1.3	server]* 3.0 [oracle_common] common] e_common] [oracle_common] 1.3.0 [wserver] 5 Extension - 12.1.3.0 [oracl C Extension - 12.1.3.0 [oracl L.3.0 [oracle_common] Ileware/Oracle_Home	e_common] [le_common] Browse
Help			< <u>B</u> ack <u>N</u> ext >	Einish Cancel

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

	Fusion Middlewar	e Configuration Wizard - Page 3 of 11 🛛 🗖
Administrator Account		
Create Domain Templates Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Nam e Password Confirm Password Must be the same as one number or spec	the password. Password must contain at least 8 alphanumeric characters with at least al character.
Help		< <u>Back</u> Next > Einish Cancel

**4.** Click **Next**. The Domain Mode and JDK window displays. Set the **Domain Mode** as **Production** and select the **JDK** version (JDK 1.7 with the latest security updates) you want to use.

	Fusion Middleware Configuration Wizard - Page 4 of 11
Domain Mode and JDK	
Create Domain Templates Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources IDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Domain Mode
Help	< <u>Back</u> <u>Next</u> > <u>Einish</u> 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.

3	usion Middleware Configuration Wizard - Page 5 of 11
Database Configuration Ty	Pe ORACLE FUSION MIDDLEWARE
Create Domain Templates Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Specify AutoConfiguration Options Using: RCU Data Manual Configuration Enter the database connection details using the Repository Creation Utility service table (STB) schema credentials. The Wizard uses this connection to automatically configure the datasources required for components in this domain. Vendor: Oracle Driver: "Oracle's Driver (Thin) for Service connections; Ver DBMS/Service Host Name Port: 1521 Schema Owner: DEV_STB Schema Password: ••••• Get RCU Configuration Cancel Connection Result Log Connecting to the database serverOK Retrieving schema adta from database serverOK Binding local schema components with retrieved dataOK Successfully Done.
	Click "Next" button to continue.
Help	< gack Next > Einish Cancel

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

IDBC Component Schema	Fusion Middleware Configuration Wizard • Page	
Create Domain Templates Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources	Vender:  Ven	PUSION MIDDLEWARE
Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Edits to the data above will affect all checked rows in the t Component Schema DBMS/Service Host Name LocalSvcTbl Schema OPSS Audit Schema OPSS Audit Viewer Sch	able below t Port Schema Owner Schema Passwor 1521 OEV_IAU_APPI 1521 DEV_IAU_VIEN 1521 DEV_IAU_VIEN 1521 DEV_OPSS *****
Help		ack Next > Finish Cancel

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

Create Domain  Templates  Administrator Account  Dom ain Mode and JDK  Database Configuration Type  Component Datasources JDBC Test  Advanced Configuration Configuration Progress End Of Configuration Component S Different Sele Connection Component S Different	Component Schema     JDBC Connection URL       LocalSvcTbl Schema     jdbc.oracle.thin.@/       OPSS Audit Schema     jdbc.oracle.thin.@/       OPSS Audit Viewer S     jdbc.oracle.thin.@/       OPSS Schema     jdbc.oracle.thin.@/
Templates         Administrator Account         Domain Mode and JDX         Database Configuration Type         Component Datasources         JDBC Test         Advanced Configuration         Configuration Summary         Configuration Progress         End Of Configuration         Component Spriverversol         URL=jbbcort         URL=jbbcort         URL=jbbcort         URL=jbbcort         URL=jbbcort         Component Spriverversol	LocalSvcTbl Schema     jdbc.oracle.thin.@/     1521.       OPSS Audit Schema     jdbc.oracle.thin.@/     1521.       OPSS Schema     jdbc.oracle.thin.@/     1521.
Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration Component S Driver-oraci URL=jdbcort URL=jdbcort URL=jdbcort	OPSS Audit Schema     jdbc.oracle.thin.@/image: initial schema     1521       OPSS Audit Viewer S     jdbc.oracle.thin.@/image: initial schema     1521       OPSS Schema     jdbc.oracle.thin.@/image: initial schema     1521
Domain Mode and JDK     Database Configuration Type     Component Datasources     JDBC Test     Advanced Configuration     Configuration Summary     Configuration Progress     Bnd Of Configuration     Component S     Driverworacl     URL=jdbcort     URL=jdbcort	OPSS Audit Viewer S     jdbc.oracle.thin:@/     1521.       OPSS Schema     jdbc.oracle.thin:@/     1521.
Outsian second and gate       Database Configuration Type       Component Datasources       JDBC Test       Advanced Configuration       Configuration Summary       Configuration Progress       End Of Configuration       Component S       Database Configuration       Configuration Progress       End Of Configuration       Origonation       Driverwork       URL=jdbc.or       URL=jdbc.or       URL=jdbc.or       URL=jdbc.or	OPSS Schema jdbc.oracle.thin:@/
Distabase Configuration Type Component Datasources JOBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration Component S Driver-oraction URL=jdbcort URL=jdbcort	Result Log
Configuration Summary Configuration Progress Iest Sele End Of Configuration Component S Driverworaci URL=jdbcorr USR=reDEV.5	Result Log
Configuration Summary     Configuration Progress     End Of Configuration     Component S     Driver-oracl     URL=jdbcor     User-DEV.5	Result Log
Configuration Progress Test Sele End Of Configuration Component S Driver-oraci URL=jdb.cor	Result Log
End Of Configuration Component 5 Driver=oracl URL=jbbc.or Use=DEV.5	Result Log
Component S Driver=oraci URL=jdbcor Use==DEV_S	Echambel ocstSucThi Schamb
Password="" SQL Test=SE CFCFWK-642 CFCFWK-642	LeCT 1 FROM DUAL 213: Test Successfull 213: JDBC connection test was successful.

**8.** Click **Next**. The Advanced Configuration window displays. Select all the checkboxes, except Domain Frontend Host Capture option, in this window.

	Fusion Middleware Configuration 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 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		
Help	< <u>Back</u>	at > Einish	Cancel

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

9	Fusion Middleware Configuration Wiza	rd - Page 9 of 19	_ ×
Administration Server			
Sreate 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     Servises Targeting     Configuration Summary     Configuration Progress     End Of Configuration	Server Name AdminServer Usten Address Listen Port SSL Usten Port Server Groups Unspecified Port number must be between 1 and 65535, an	d different from SSL listen port and coher	ence port.
Help	1	<gack next=""> Emis</gack>	Cancel

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

<b>1</b>	Fusion Middleware Con	figuration Wizard - Page 10 of 19	_ ×
Node Manager			
Create Domain Templates Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JD8C Test	Node Manager Type	ocation	
Advanced Configuration Administration Server Node Manager Managed Servers Clusters Coherence Clusters Machines Deployments Targeting Services Targeting	Node Manager Home: <u>M</u> anual Node Manager <b>Node Manager Credential</b> Username: Password: Confirm Password:	i:/user_projects/domains/jms_console_domain/nodemanager] r Setup s weblogic	Bgowse
Configuration Summary Configuration Progress End Of Configuration	Must be the same as the pa one number or special char	ssword. Password must contain at least 8 alphanumeric characters v racter. < <u>Back</u> <u>N</u> ext > <u>Finish</u>	with at least Cancel

- 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.

	Fusion Middleware Co	onfiguration Wizar	rd - Page 11	of 19		_ ×
Managed Servers						
Create Domain	Add Bac	one 🗙 <u>P</u> elete	]		🗐 Disg	ard Changes
Administrator Account	Server Name	Listen Address	Listen Port	Enable SSL	SSL Listen Port	Server Groups
Database Configuration Type	jms_console_server		17003		Disabled	Unspecified *
JDBC Test     Advanced Configuration     Administration Server     Node Manager     Managed Servers     Clusters     Contract Clusters     Machines     Deployments Targeting     Services Targeting     Services Targeting     Configuration Summary.						
Configuration Progress     End Of Configuration			clini	Next >	Guest	Charat

12. Click Next. The Clusters window displays.

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

F	usion Middleware	e Configuration Wi	zard - Page 12	of 19	_ ×
Clusters					
Templates	👍 Add 🐊	Delete		<b>5</b>	Dis <u>c</u> ard Changes
Administrator Account	Cluster Name	Cluster Address	Frontend Host	Frontend HTTP Port	Frontend HTTPS Port
Database Configuration Type					
UDBC Test					
Advanced Configuration Administration Server					
<u>Node Manager</u> Managed Servers					
© Clusters					
Coherence Clusters					
Machines					
Deployments Targeting					
Services Targeting					
Configuration Summary	*. *				
Configuration Progress					
C End Of Configuration					
Help			< <u>B</u> ack	<u>N</u> ext > <u>E</u> inis	h Cancel

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

۱) F	usion Middleware Configuration W	/izard - Page 13 of 19	_ × _
Coherence Clusters			RE
Create Domain			Discard Changes
Templates			,
Administrator Account	Cluster Name	Unicast Lis	ten Port
Domain Mode and JDK	defaultCoherenceCluster	0	
Database Configuration Type			
Component Datasources			
JDBC Test			
Advanced Configuration			
Administration Server			
🧅 Node Manager			
Managed Servers			
<u>Clusters</u>			
Coherence Clusters			
Machines			
Deployments Targeting			
Services Targeting			
Configuration Summary			
Configuration Progress			
End Of Configuration			
Help		< <u>B</u> ack <u>N</u> ext >	Einish Cancel

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

	Fusion Middleware Configura	tion Wizard - Page 14 of 20	_ 1
Machines			
Create Domain Templates Administrator Account Domain Mode and JDK Database Configuration Type	Machime Unix Machime	Node Manager Listen Address	Discard Changes
Component Datasources     JOBC 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			
Help	Mi .	<gack next<="" td=""><td>&gt; Elnish Cancel</td></gack>	> Elnish Cancel

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

ja F	usion Middleware Configuration Wizard - Pag	e 15 of 20 📃 🗙
Assign Servers to Machines		
Create Domain	Servers	Machines
Administrator Account Domain Mode and JDK		Machine  Machine_1  AdminServer  jms_console_server
Database Configuration Type     Component Datasources     JDBC Test     Advanced Configuration	۲	
Administration Server     Node Manager     Managed Servers		
Clusters <u>Coherence Clusters</u> <u>Machines</u>		
Assign Servers to Machines		
Deployments Targeting     Services Targeting		
Configuration Summary Configuration Progress End Of Configuration	Select <b>one or more</b> servers in the left pane and <b>one</b> mac button (>) to assign the server or servers to the machin	hine in the right pane. Then use the right arrow e.
Help	` 	Eack Next > Einish Cancel

16. Click Next. The Deployments Targeting window displays.



17. Click Next. The Services Targeting window displays.



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

	Fusion Middleware Configuration Wizard - Pag	ge 18 of 20 📃
Configuration Summary		
Create Domain	View: Deployment	Name Basic WebLogic Server Domain
Templates	ims_console_domain (/home/dev02/Oracle/Midd▲	Description Create a basic WebLogic Server do
Administrator Account	🖃 🧁 Server	Location /home/dev02/Oracle/Middleware
Domain Mode and JDK	AdminServer     Service	Name Oracle ADF and MDS Extensions fo
Database Configuration Type	🖃 🗁 Shutdown Class	Description Required for Fusion Middleware C
Component Datasources	DMSShutdown	Author Oracle Corporation
🥥 JDBC Test	Web Services Startup Class	Location /home/dev02/Oracle/Middleware
Advanced Configuration	D JPS Startup Class	Name Oracle JRF Description Required for Euclon Middlewore C
Administration Server	JPS Startup Post-Activation Clas	Author Oracle Corporation
Wode Manager	JRF Startup Class	Location /home/dev02/Oracle/Middleware
Managed Servers	DDL-Startup	Name Oracle Click History
<u>Clusters</u>	AWT Application Context Startu	Description Oracle Click History extension tem
Coherence Clusters	🖃 🗁 JDBC 🖃 🇀 JDBC Data Source	Location /home/dev02/Oracle/Middleware
<u>Machines</u>	LocalSvcTblDataSource	Name WebLogic Coherence Cluster Exter
Assign Servers to Machines	D opss-data-source	Description Extend an existing WebLogic Serve
Deployments Targeting	opss-audit-viewDs	Author Oracle Corporation Location /home/dev02/Oracle/Middleware
Services Targeting		
Configuration Summary	Select Create to accept the above options and start crea above configuration before starting Domain Creation, g	ating and configuring a new domain. To change the go back to the relevant page by selecting its name in
Configuration Progress	the left pane, or by using the <b>Back</b> button.	
End Of Configuration		
Help		< <u>Back</u> Next > Create Cancel

**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.

Configuration Success     Create Domain     Create Domain     Templates   Administrator Account   Database Configuration Type   Component Datasources   JDRC Terr   Advanced Configuration Server   Node Manager   Managed Servers   Cluiters   Configuration Servers   Cluiters   Configuration Servers   Cluiters   Destines Targeting   Configuration Servers   Destines Targeting   Configuration Servers   Configuration Servers	3	Fu	sion Middleware Configuration Wizard - Page 20 of 20 📃 🗮 🗙
Create Domain Templates Administrator Account Domain Node and DN Destabuse Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Node Namager Managed Servers Chitters Configuration Progress Configuration Success Configuration Success Configuration Strees Configuration Strees Configuration Progress Configuration Success	Configuratio	n Success	
Note: Sector Sector Sector	Create Domain Templates Administrator Domain Mode Database Con Database Con Database Con Database Con Database Con Database Con Database Con Database Con Database Con Database Con Component D Coherence Ci Macago Server Deployments Services Targ Configuration Configuration Configuration	n Account and JDK diguration Type istasources infiguration n Server r ers usters s to Machines Targeting eting i Summary Progress n Success	Oracle Weblogic Server Configuration Succeeded      New Domain Ims_console_domain Creation Successful      Domain Location
	Helo		and the second sec

**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.

WebLogic Server Ad	Iministration Console 12c								
Change Center	Home Log Out Preferences 🔤 Record Help				Welcome	e, weblogic Connected to: adf_doma			
View changes and restarts	Home >Summary of Servers >Summary of Services >Summary of Depkoyments								
Configuration editing is enabled. Future	Summary of Deployments								
modify, add or delete items in this domain.	Control Montoring	Centrol Montoring							
Domain Structure									
adf_domain ^	This page displays a list of Java EE applications and stand-alone application modules that have been installed to the selecting the application name and using the controls on this page.	doman. Installed appica	tions and mod	ules can be started, stopped, up	dated (redeployed), or	deleted from the domain by first			
Servers	To be the new service or ends is for deals must be branch in this density which the bedd buffer.								
B-Ousters	to come net appendix in a second control of the second control of	La sense e una diference de notate de adfactante en militare en acenteni ante acenteni.							
Coherence Clusters.	Customize this table								
Virtual Hosts 🗧	Producer to								
	Depoyments								
Depkyments	Instal Update Delete Start v Stop v				Sh	owing 1 to 10 of 33 Previous   Next			
Security Realms	Name 🙃	State	Health	Туре	Targets	Depkyment Order			
Interoperability *	edf.oracle.businesseditor(1.0.12.1.3.0.0)	Active		Library	AdminServer	100			
How do I 🖯	aff.oracle.domain(1.0,12.1.3.0.0)	Active		Lbrary	AdminServer	100			
Instal an enterprise application	adf.orade.domain.webapp(1.0,12.1.3.0.0)	Active		Lbrary	AdminServer	100			
Configure an enterprise application	Coherence-transaction-rar	Active	🖋 ОК	Resource Adapter	AdminServer	100			
Start and stop a deployed enterprise	E DMS Application (12.1.3.0.0)	Active	🕈 ОК	Web Application	AdminServer	5			
Monitor the modules of an enterprise	B Tojms-console-15.0.0.RCL.ear	Active	🕈 ок	Enterprise Application	AdminServer	100			
Application	http://www.second.com/second/secon	Active		Library	AdminServer	100			
Instal a Web application	bit(1.2,1.2.0.1)	Active		Library	AdminServer	100			
	ed.dkithistory(1.0,12.1.3)	Active		Ubrary	AdminServer	100			
System Status	od.dkihistory.webape(1.0.12.1.3)	Active		Lbran	Admin/Carouar	100			
Health of Running Servers		ALUTE		cara y	- Gen 100 Yes				
Failed (0)	Install Update Delete Start Stop v				Sh	owing 1 to 10 of 33 Previous   Next			
Critical (0) Overloaded (0)									
Warning (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 WebLogis Server	Uminuhation Consult 131	O CONTRACTOR OF
Change Center	🛔 Hare Lapitul Peterson 🔐 Interi Hels	Wolcome, weblagic Connected to programmin_domain
View-champes and readurity	inere clummary of Ingitymeth collocationization/3.1333.2340 clummary of Ingitymeth collocationsmither(3.0,13.1.3.8.0)	
Gild the Lock & Gill Surface to models, and or	Settings for self-analyshowinessedber(1.4.13.1.2.6.4)	
detete lane in The Jonan.	Oververy Tangets Notes	
Log 1 fill		
Person Cerliquetter	Oids the Javel & Add Systemic the Osinge Center to needly the settings of the page.	
Domain Wrachard	[204]	
pro, constel, disease III diseasement Conducements	the the pape to which the initialized for we restance and during to which you want to dealey (larger) the line (II form).	
B) Services	Servers .	
R: Intersonability R: Disposition	22 Advantance	
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	[See]	
	Old the Lock & Additivation in the Change Carter to Healthy the entropy on the page.	
Nords L. 11		
· Indala Joseff Briany		
<ul> <li>Target a loca EE Brany to a server or cluster</li> </ul>		
<ul> <li>Configure a preside former</li> <li>Configure a preside for the set of the set of</li></ul>		
· Debra a low of the low of		
System Status 0		
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## **Extending an Existing Domain to Add ADF Runtime Libraries**

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

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: Ileware/Oracle_Home/user_projects/domains/jms_console_domain	e
	Update an existing domain.	
Help	< <u>Back</u> <u>Next&gt;</u> Einish Cance	:

- **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 12.1.3.0 [oracle\_common] and WebLogic Coherence Cluster Extension - 12.1.3.0 [wlserver] checkboxes.



- 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 Configuration Wizard - Page 3 of 9					
Database Configuration Typ					
Update Domain Templates Database Configuration Type Component Datasources JDEC Test Advanced Configuration Configuration Progress End Of Configuration	Specify AutoConfiguration Options Using:				
Help	< gack Next > Einish Cancel				

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

JDBC Component Schema							()
Update Domain	Ver	ndor:	- D	river:			
Templates	0.81	US IS anulas		out Name:		Pourt:	
Database Configuration Type				ost mane.			
Component Datasources	Sch	iema Owner:	S	chema Password:			
IDBC Test	Or	acle RAC configuration f	or component so	hemas:			
Advanced Configuration		Convert to Cr		wert to RAC multi-	data sourc	e O Don't c	onvert
Configuration Summary							
Configuration Progress	Edi	ts to the data above will	affect all checked	rows in the table	below.		
End Of Configuration		Component Schema	D8MS/Service	Host Name	Port	Schema Owner	Schema Passw
cho of configuration		LocalSvcTbl Schema			1521	DEV1_ST8	•••••
		OPSS Audit Schema			1521	DEV1_IAU_API	•••••
		OPSS Audit Viewer Sch			1521	DEV1_IAU_VIE	•••••
		OPSS Schema		نصحنه	1521	DEV1_OPSS	•••••

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

	Fusi	on Mi	ddleware Configu	uration Wizard - Pa	ge 5 of 9 ORACLE	
JDBC Component Schema T	est				FUSION MIDDLEWARE	
Update Domain		Status	Component Schema		JD8C Connection URL	
Templates			LocalSvcTbl Schema	jdbc:oracle:thin:@/)		8
Database Configuration Type		1	OPSS Audit Schema	jdbc:oracle:thin:@/		
Component Datasources		1	OPSS Audit Viewer 5	jdbc:oracle:thin:@/		
		1	OPSS Schema	jdbc:oracle:thin:@/)		
Configuration Progress End Of Configuration	Co Com Drih URL USE Pass SQL CFC	Test Se nnectio iponen =jdbc: r=DEV: tword= Test=: FWK-6 FWK-6	lected Connections in Result Log 1 Schema=LocalSvcTb (kej dbc.OracleDriver praciethin:#)/STB #ELECT 1 FROM DUAL 4213: JDEC connection 553.5. Me extenses	Cancel Testing		
Help					Back Next > Finis	h Cancel

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

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

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

3	Fusion Middleware O	Configuration Wizar	rd - Page 7 o	f 15		_ ×
Managed Servers						
Templates	🔶 🗛 👘 C	jone 🔀 <u>D</u> elete			🧐 Dis <u>c</u> i	ard Changes
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UDEC Test	jms_console_server	•	17003		Disabled	Unspecified 💌
Managed Servers						
<u>Clusters</u> <u>Coherence Clusters</u>						
Machines     Deployments Targeting						
Services Targeting						
Configuration Summary Configuration Progress						
<ul> <li>End Of Configuration</li> </ul>						
Help			< Back	Next >	Einish	Cancel
Help			< <u>B</u> ack	Next >	Einish	Cancel

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

	Fusion Middlewar	e Configuration W	izard - Page 8	of 15	_ ×
Clusters					
T Update Domain Templates	🖶 Add 🛛 💥	Delete		9	Dis <u>c</u> ard Changes
Outranse Configuration Type     Component Datasources     IDBC Test     Advanced Configuration     Managed Servers     Clusters     Coherence Clusters			Frontena nost		Port
Machines     Deployments Targeting     Services Targeting     Configuration Summary     Configuration Progress     End Of Configuration					
Help			< <u>B</u> ack	Next > Eini:	sh Cancel

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

	Fusion Middleware Configuration Wizard	- Page 9 of	f 15	_ ×
Coherence Clusters		i		
Update Domain				Jiscard Changes
Templates			-7	vis <u>c</u> ard changes
Database Configuration Type	Cluster Name		Unicast Listen F	ort
Component Datasources	defaultCoherenceCluster	0		
UDBC Test				
Advanced Configuration				
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<u>Clusters</u>				
Coherence Clusters				
<ul> <li><u>Machines</u></li> </ul>				
<ul> <li>Deployments Targeting</li> </ul>				
<ul> <li>Services Targeting</li> </ul>				
Configuration Summary				
O Configuration Progress				
O End Of Configuration				
	* *			
		< <u>B</u> ack	<u>N</u> ext > <u>F</u> inis	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.

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

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

	F	usion Middleware Configuration Wizard	- Pag	e 11 of 16	_ ×
A	ssign Servers to Machine	5			
*	Update Domain	Servers		Machines	
	Templates			🗁 Machine	
- L	Database Configuration Type			AdminServer	
6	Component Datasources			im s_console_serve	r
1	IDBC Test				
I	Advanced Configuration				
T	Managed Servers		>		
I	Clusters				
Ĭ	Cohorence Clusters				
Ĭ	Conerence clusters				
Ĩ	Machines				
•	Assign Servers to Machines		8		
Ý	Deployments Targeting				
Ý	Services Targeting				
Ý	Configuration Summary				
Ý	Configuration Progress				
9	End Of Configuration				
		Select one or more servers in the left pane and on	e mach	ine in the right pane. Then use	the right arrow
		button (>) to assign the server or servers to the m	achine		
	Help		<	<u>Back N</u> ext > <u>F</u> inis	ih Cancel

13. Click Next. The Deployments Targeting window displays.

- **a.** By default, all libraries and applications are only targeted to the Admin Server.
- Fusion Middleware Configuration Wizard Page 12 of 16 \_ × ORACLE **Deployments Targeting** FUSION MIDDLEWARE Deployments Update Domain Targets > Server Templates oracle.adf.desktopintegration#1.0@12.1.3 🖃 🍗 AdminServer oracle.adf.desktopintegration.model#1.00 Database Configuration Type 🗄 🛅 Application oracle.adf.management#1.0@1.1.3.0.0 🗄 🗀 Library Component Datasources igoracle.bi.adf.model.slib#1.0@12.1.3.0.0 🖃 🝗 jms\_console\_server JDBC Test 🃦 oracle.bi.adf.view.slib#1.0@12.1.3.0.0 Application 🧊 oracle.bi.adf.webcenter.slib#1.0@12.1.3.0 DMS Application#12.1.3.0.0 Advanced Configuration interpretation in the second seco ighter the content of ۵ Managed Servers igonacle.bi.jbips#11.1.1@0.1 🧃 state-management-provider-me oracle.dconfig-infra#2.0@12.1.3 wsil-wls#12.1.3.0.0 Clusters 🖃 🗁 Library Coherence Clusters 🧊 oracle.jsp.next#12.1.3@12.1.3 📦 UIX#11@12.1.3.0.0 Machines 📦 oracle.pwdgen#2.0@12.1.3 adf.oracle.businesseditor#1.0@ i oracle.sdp.client#2.0@12.1.3 iggadf.oracle.domain#1.0@12.1.3.0 Assign Servers to Machines 📦 oracle.wsm.seedpolicies#2.0@12.1.3 3 igia adf.oracle.domain.webapp#1.0@ Deployments Targeting 🧊 orai18n-adf#11@11.1.1.1.0 🧊 jsf#2.1@2.1.7-01i owasp.esapi#2.0@12.1.3 🧊 jstl#1.2@1.2.0.1 Services Targeting 🗁 Application iglioidl.clickhistory#1.0@12.1.3 Configuration Summary DMS Application#12.1.3.0.0 odl.clickhistory.webapp#1.0@12 i coherence-transaction-rar **Configuration Progress** ohw-rcf#5@12.1.3.0.0 state-management-provider-memory-ra ohw-uix#5@12.1.3.0.0 End Of Configuration 🧊 wsil-wls#12.1.3.0.0 ima oracle.adf.dconfigbeans#1.0@1 4 Select one or more Deployments in the left pane and one server or cluster in the right pane. Then use the right arrow button (>) to target the Applications to the servers or clusters <u>H</u>elp < <u>B</u>ack <u>N</u>ext > Cancel
- **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.



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



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



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

# **Deploying JMS Console Application**

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

#### Preparing the Database for JMS Console Installation

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

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

# **Supporting Multiple JMS Servers**

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

# Deploying JMS Console Application on the WebLogic

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

- 1. Download JmsConsole15.0.0ForAll15.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 (JmsConsole15.0.0ForAll15.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",
```

```
"jmsConsoleAdminUiUser":"GET_FROM_WALLET",
                    "jmsConsoleAdminUiPassword":"GET_FROM_WALLET",
                }
            },
            "JmsConsoleApplication":{
                "jmsConsoleAppUses":[
                    "AqDataSource",
                    "JmsConsoleAppServer"
                ]
            }
        }
5. Export the following WL_HOME variable:
    $export WL_HOME=<WLS HOME>/wlserver/
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
```

gjoshiegjoshi-thk binjs export mt_noncyoracternioutemareiziz/mtserver/ gjoshi@gjoshi-lnx binjs ./jms-console-deployer.sh Jad level value for property: .level				
JSAGE: JmsConsoleDeployer SECURITY	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 jms-console application.			
jgjoshi@gjoshi-lnx bin]\$ ./jms-cor	nsole-deployer.sh -setup-credentials -deploy-jms-console-app			

- Enter the parameter value prompted by the script. 7.
- 8. Bounce the WebLogic server hosting JMS Console application.

#### 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.

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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.



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.

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Discover Topics Search 26 Topic 9, (	Subscriber Summary		
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To browse a specific Topic/Subscriber, click the Subscriber listed on the Navigation menu. This displays the Subscriber Summary panel on the right hand side pane. The Subscriber Summary panel provides information on the selected subscriber and contains the **Take Snapshot of messages** button.

Subscriber Summary	
JMS Server:	ms1_ydbc/AqDataSource1#jdbc:onade:thine@//
Topic:	ETA90N
Subscriber Name:	RE_006_AS00_S08_1
Messages waiting on topic:	103
Message Selector:	((decode(dtms,agims.get_ptype('appName', tab.user_data.header.properties), 100, dtms,agims.get_strva('appName', tab.user_data.header.properties), 200, dtms_agims.get_numva('appName', tab.user_data.header.properties), null) IS NULL) OR (tab.user_data.header.get_string_property ('appName') = 'nb-rms') OR (tab.user_data.header.get_string_property ('appName') = 'nb-rms' AND (decode(dtms_agims.get_ptype('retryLocation', tab.user_data.header.properties), 100, dtms_agims.get_strva('retryLocation', tab.user_data.header.properties), 200, dtms_agims.get_ptype('retryLocation', tab.user_data.header.properties), null) IS NOT NULL OR
	* Start Index: 0 * Count: 50 Take Snapshot of messages Release Snapshot

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

The tool requires two inputs as follows:

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

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

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

.

Messages			
Index	Message Enqueuetime	Messages	ī
э	0/10/2014 3.55 PM	11	'n
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&lt;/td&gt;&lt;td&gt;F&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;11&lt;/td&gt;&lt;td&gt;6/28/2014 6:59 AM&lt;/td&gt;&lt;td&gt;&lt;rm:RibMessages xmlns:rm="><td>ľ</td></rm:ribmessages>	ľ
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&lt;/td&gt;&lt;td&gt;1&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;13&lt;/td&gt;&lt;td&gt;6/28/2014 6:59 AM&lt;/td&gt;&lt;td&gt;&lt;rm:RibMessages xmlns:rm="><td></td></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&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;15&lt;/td&gt;&lt;td&gt;6/28/2014 6:59 AM&lt;/td&gt;&lt;td&gt;&lt;rm:RibMessages xmlns:rm="><td></td></rm:ribmessages>	
16	6/28/2014 7:04 AM	<rm:RibMessages xmlns:rm="http://www.oracle.com/retail/integration/rib/RibMessag</td> <td>T,</td>	T,

Jms Message Properties		Message Content
Property JMS_OracleConnectionID threadValue JMS_OracleDeliveryMode JMS_OracleTimestamp	Value fcd463fe9ed875c2e04310358d0ae32f 1 2	<pre>&lt;rm:RibMessages xmins:rm="http://www.oracle.com/retail/integration/ rib/RibMessages" xmins:rm="http://www.w3.org/2001/XMLSchema- instance" xsi:schemal.ocation="http://www.diorg/2001/XMLSchema- instance" xsi:schemal.ocation="http://message/ &lt;rm:ribMessages/ &lt;rm:ribMessages/ &lt;rm:ribMessages/ &lt;rm:ribMessages/ &lt;rm:ribMessages/ &lt;rm:ribMessages/ &lt;rm:ribMessages/ &lt;rm:ribMessage/ &lt;/rm/&gt;   </pre>

## Manage JMS

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

#### **ORACLE**' JMS Console Welcome, jmsadmin 🛛 Logout 🔘 Live Monitor Browse Manage Manage JMS 9.0 Manage JMS Topic ℤ JMS Server : ims1 $_{\triangledown}$ Use the options listed to manage the selected Topic 'ETALLOCFROMRMS'. 🖳 Publish Message Click on the navigation tree node 'Publish Message' to a send messages to the selected JMS Topic. Click on the navigation tree node 'Edit Properties' to a modify settings related to the selected JMS Topic. Click on the navigation tree node 'Subscribers' to view all available Subscribers for the selected JMS topic. 💥 Edit Properties ℤ Subscribers ⊽ 🔕 JMS\_MONITORING\_AGENT Dump Message Drain Messages √ S RIB\_TAFR\_ALLOC\_TAFR\_1 📋 Dump Message 📋 Drain Messages ⊽ 👰 ETASNIN 🕌 Publish Message K Edit Properties 🔻 🔕 JMS\_MONITORING\_AGENT 🚺 Dump Message Drain Messages V SUB\_RMS\_ASNIN\_SUB\_1 🚺 Dump Message Drain Messages V S RIB\_TAFR\_ASNINTOASNINL\_TAFR\_1 🚺 Dump Message 💼 Drain Messages V ETASNINFROMRIBTOISO 🍒 Publish Message 💥 Edit Properties V S JMS\_MONITORING\_AGENT 1 Dump Message Copyright © 2015 Oracle and/or its affiliates. All rights reserved.

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

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

```
    ETALLOCFROMRMS
    Edit Properties
```

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

▼ Solve RIB\_TAFR\_ALLOC\_TAFR\_1
Image Dump Message
Image Drain Messages

#### **Publishing Messages to a JMS Topic**

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

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



		Publish Message to ETALLOCFROMRMS
Choose a JMS Header Name:		🗷 🔮 🛇
JMS Header Properties:		Property Name Property Value
		No data to display
Import Message Payload from Local Disk:	۲	Browse No file selected.
Enter Message Payload Here:	۲	
		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			
Use this page to configure following properties for the selected topic.  • Threshold for Max Messages Walting on Topic: It is the ma • Ignore This Topic For Inactivity Calculation: When set to I	aximum number of messages waiting on a topic after which notification should be generated. Take this property will ignore the selected topic for inactivity calculation.		
Selected Topic: Threshold for Max Messages Waiting on Topic: Ignore This Topic For Inactivity Calculation:	ETALLOCFROMRMS		
	Save Changes		

3. Click Save Changes.

#### **Enabling Email Notification Alerts**

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

To enable email notifications, take the following steps:

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

Name: JmsConsoleMailSession

JNDI Name: mail/JmsConsoleMailSession

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

Session Password: Email server authentication password

Confirm Same Password: Enter same email server authentication password

#### JavaMail Properties:

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

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

ORACLE WebLogic Server Ad	Invasion Console 12:		
Change Center	🏚 Home Log Cut Pedrances 🔄 Record Help		Minkume, weblock Connected for adf_th
View changes and restarts	Here of prevery of Math Deserved. • Impl Consultable Deserved		
Configuration editing a enabled. Future	Settings for InsuConsoleHalliession		
modPy, abit or delete terms in the domain.	Configuration Targets Notes		
Domain Structure	(Jam)		
edi, danas • P Environment Deptyments 5 Services • Techniques • Tec	Use the page to configure a mail assoon, which enables as * Indicates required tests	pRodions to access a pre-configured jarvax.mail.dession ob	pert through JHOE
Fermitert Mores Foreitert Mores	Autor	Instantiations	The same of this coal assain. Over you create a real assaint, you cannot change its name. No ING
176, Reptiles 196, Disty Caches	📣 * 3MDE Namer	mail/Jms/Comole/MailE	The PICE note that encloses one to access the real sensors. Here $M_{\rm enc}$
Had Sevene -	C Session (hermaner)		The partners to be used to create an authenticated Jouathia Senators 2 this is lost set; if will be assumed that the Senator 4-rol to be authenticated. Here \$40s.
Hose do L. U	🐔 Session Passaurd:		The parameter to be used to create an authoritizated lawalhad Sensory. More lafts
Compare active to anyone     Target mail sessions     Deinte mail sessions	Castlera Session Passavardi		
	Averatial Properties:		The configuration options and over authentication data that this real vesion over to elevant with
System Status II	mail.sstp.starttls.enable+true;		a mak server. Each property that you specify overvides the datiwat property value as defined by the Javahat AH Denajn Specification. More Influe.
Health of Burring Servers	mi mi		
Field (1) Ortical (1) Overbaded (1)	mail.serp.pirt+465) mail.from-t mail.debug=true/ mail.emtp.sockstFactory.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	A Home Lag Out, Preferences 🐼 Record Holp	9	Welcome, weblogic Connected to: adf_domain
View changes and restarts	Nona > Summary of Mail Sensitives		
Configuration editing is evabled. Future	Create a New Mail Session		
modify, add or delete farm in this domain.	(Bach) [New!] (Kenth) [Genose]		
Contain Structure	Mail Session Targets		
■ Torkowent     Deployment     Deployment     Sinvice     Sinvice     R Messaging     Data Source     President Scree	This page indicates on which WebLogic Server indicates or ch sension. When you larget all or part of a cluster, the Administration Co fails for all active servers.	haters the mail session is accessible. Only much sidiates a taxo-plane deployment.	applications that have been displayed to the selected servers or challers can use this mall. In general, such a deployment ensures that if the displayment fails for one active server, it
-Wark Contexts	Servers	2	
- 30%, Ragintrian 10%, Evidity Cachain	AdminServer		
Hall Seeking	🗹 pro-console-server		
How do L	Back [http://family] [Canon]		
Configure access to JavaMail     Target read annalors			

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

#### **Resetting Preferences to Default Factory Settings**

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

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

cd \$MW\_HOME/user\_projects/JMS\_CONSOLE\_DOMAIN/rm -rf .jms-console

2. Restart the server hosting the application.

#### **Dump Message**

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

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

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

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

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

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

#### Drain Messages

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

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

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

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

#### **3.** Click **Drain Messages**.

-

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

# **A**

# Appendix: JMS Console Installation Checklist

Property Name in	Description	Edit able 2	Sample Value (only for
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

		Edit	
Property Name in the JSON file	Description	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.