

Oracle Real-Time Scheduler

JMS Setup Guide

Release 2.3.0.3.0

F12628-01

November 2018

Oracle Real-Time Scheduler JMS Setup Guide, Release 2.3.0.3.0

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Preface

Welcome to the Oracle Real-Time Scheduler JMS Setup Guide.

This guide focuses on the JMS configuration for Oracle Real-Time Scheduler.

The preface includes information about:

- [Audience](#)
- [Related Documents](#)
- [Updates to Documentation](#)
- [Additional Resources](#)
- [Acronyms](#)
- [Conventions](#)

Audience

This guide is intended for anyone interested in the process of installing Oracle Real-Time Scheduler.

Related Documents

The following is the complete set of documentation available with this release.

Installation, Configuration, and Release Notes

- *Oracle Real-Time Scheduler Release Notes*
- *Oracle Real-Time Scheduler Quick Install Guide*
- *Oracle Real-Time Scheduler Server Application Installation Guide*
- *Oracle Real-Time Scheduler Database Administrator Guide*
- *Oracle Real-Time Scheduler Hybrid Mobile Application Installation and Deployment Guide*
- *Oracle Real-Time Scheduler GEOCODE Data Source Configuration Guide*
- *Oracle Real-Time Scheduler JMS Setup Guide*

User Guides

- *Oracle Real-Time Scheduler Administrative User Guide*
- *Oracle Real-Time Scheduler Business User Guide*
- *Oracle Real-Time Scheduler Mobile Application User's Guide (Java-based)*
- *Oracle Real-Time Scheduler Hybrid Mobile Application User's Guide*
- *Oracle Real-Time Scheduler Hybrid Mobile Contractor Application User's Guide*

Map Editor Installation and User Guides

- *Oracle Real-Time Scheduler Map Editor User's Guide*
- *Oracle Real-Time Scheduler Map Editor Installation Guide*

Supplemental Documents

- *Oracle Real-Time Scheduler Server Administration Guide*
- *Oracle Real-Time Scheduler Security Guide*

Updates to Documentation

Additional and updated information about the product is available from the **Knowledge Base** section of **My Oracle Support** (<http://support.oracle.com>). Please refer to **My Oracle Support** for more information. Documentation updates are also posted on the Oracle Technology Network documentation page as they become available (http://docs.oracle.com/cd/E72219_01/documentation.html).

Additional Resources

For more information and support, visit the Oracle Support Web site at:
<http://www.oracle.com/support/index.html>

Acronyms

The following acronyms and terms are used in this document:

Acronym	Definition
MWM	Oracle Utilities Mobile Workforce Management
MOS	My Oracle Support
ORS	Oracle Real-Time Scheduler
OSDC	Oracle Software Delivery Cloud
OAAF	Oracle Utilities Application Framework

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.
<i>italic</i>	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.

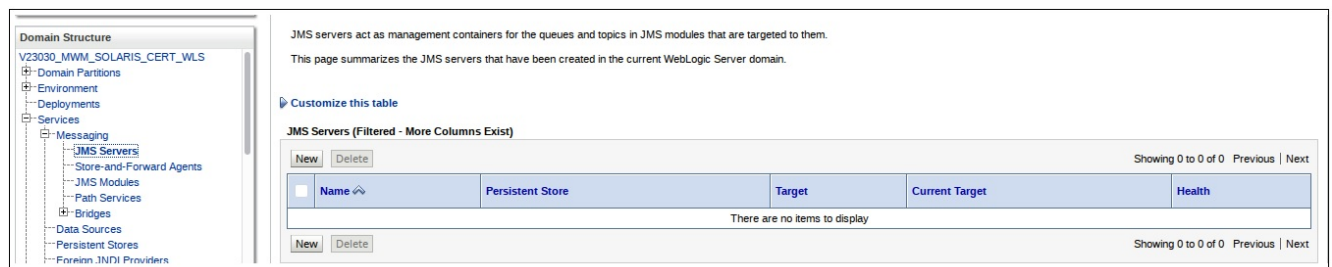
Chapter 1

Configuring JMS

This chapter describes the JMS configuration settings for Oracle Real-Time Scheduler. It describes the steps for the utilities_server1 Managed Server.

To configure JMS settings in the WebLogic domain:

1. Login to the WebLogic Administration Console.
2. Navigate to **<Domain Name> > Services > Messaging > JMSServers**.
3. Click **New**.



4. Create a new JMS Server.
 - a. To create the **OUMJMS** server:
 1. In the **Create a New JMS Server** window, specify the **Name** as OUMJMS.
 2. Specify the **Target** as utilities_server1.
 3. Click **Finish**.
 - b. To create the **ORS-JMS** server:
 1. In the **Create a New JMS Server** window, specify the **Name** as ORS-JMS.
 2. Click **Next**.
 3. Specify **ORS-persist** as a persistent store for this JMS server.
 4. Click **Create a New Store**.
 5. Specify the **Target** as utilities_server1.
 6. Click **Finish**.

The **Summary of JMS Servers** lists the new JMS servers created.

Summary of JMS Servers

JMS servers act as management containers for the queues and topics in JMS modules that are targeted to them. This page summarizes the JMS servers that have been created in the current WebLogic Server domain.

[Customize this table](#)

JMS Servers (Filtered - More Columns Exist)

Showing 1 to 2 of 2 Previous | Next

<input type="checkbox"/>	Name	Persistent Store	Target	Current Target	Health
<input type="checkbox"/>	ORS-JMSServer	ORS-persist	utilities_server1	utilities_server1	
<input type="checkbox"/>	OUMJMServer		utilities_server1	utilities_server1	

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5. Create a new JMS module.
 - a. Navigate to **<Domain Name> > Services > Messaging > JMSModules**.
 - b. Click **New**.

- c. To create the OUFlushModule JMS module:
 1. Specify the **Name** as OUFlushModule.
 2. Specify the **Target** as utilities_server1.
 3. Select the **Would you like to add resources to this JMS system module?** checkbox.
 4. Click **Finish**.
 5. On the **Settings for OUFlushModule** window:
 - a. Select the **Configuration** tab and then click **New**.
 - b. Add the following system module resources:

- Name: OUFlushConnectionFactory
Type: ConnectionFactory
JNDI Name: jms/OUFlushConnectionFactory
Targets: utilities_server1
- Name: OUFlushRequestTopic
Type: Distributed Queue
JNDI Nme: jms/OUFlushRequestTopic
Targets: utilities_server1
- Name: OUFlushResponseTopic
Type: Distributed Queue
JNDI Nme: jms/OUFlushResponseTopic
Targets: utilities_server1

The **Summary of Resources** list looks as shown below.

Configuration
Subdeployments
Targets
Security
Notes

This page displays general information about a JMS system module and its resources. It also allows you to configure new resources and access existing resources.

Name:	OUFlushModule	The name of this JMS system module. More Info...
Scope:	Global	Specifies if the JMS system module is accessible within the domain, a partition, or a resource group template. More Info...
Descriptor File Name:	jms/OUFlushModule-0842-jms.xml	The name of the JMS module descriptor file. More Info...

This page summarizes the JMS resources that have been created for this JMS system module, including queue and topic destinations, connection factories, JMS templates, destination sort keys, destination quota, distributed destinations, foreign servers, and store-and-forward parameters.

▶ [Customize this table](#)

Summary of Resources

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	Name ↕	Type	JNDI Name	Subdeployment	Targets
<input type="checkbox"/>	OUFlushConnectionFactory	Connection Factory	jms/OUFlushConnectionFactory	Default Targeting	utilities_server1
<input type="checkbox"/>	OUFlushRequestTopic	Uniform Distributed Topic	jms/OUFlushRequestTopic	Default Targeting	utilities_server1
<input type="checkbox"/>	OUFlushResponseTopic	Uniform Distributed Topic	jms/OUFlushResponseTopic	Default Targeting	utilities_server1

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- d. To create the ORS-SystemModule JMS module:
 - 1.Specify the **Name** as ORS-SystemModule.
 - 2.Specify the **Target** as utilities_server1.
 - 3.Select the **Would you like to add resources to this JMS system module?** checkbox.
 - 4.Click **Finish**.
 - 5.On the **Settings for ORS-SystemModule** window:
 - a.Select the **Configuration** tab and then click **New**.
 - b.Add the following system module resources:
 - Name: ORS-ConnectionFactory
Type: ConnectionFactory
JNDI Name: spl.mwm.abr.connectionfactory
Targets: utilities_server1
 - c.Select the **Subdeployments** tab.
 - d.Click **Create a New Subdeployment**.
 - e. Specify the **Subdeployment Name** as JMSFAServer.

- f. Specify the **Target** as ORS-JMSServer.
- g. Click **Next**.
- h. Specify the following resources:
 - Name: spl.mwm.abr.queue
Type: Distributed Queue
JNDI Name: spl.mwm.abr.queue
Targets: utilities_server1
Subdeployments: JMSFAServer
- i. Click **Finish**.

The **Summary of Resources** list looks like below.

Settings for ORS-SystemModule

Configuration | Subdeployments | Targets | Security | Notes

This page displays general information about a JMS system module and its resources. It also allows you to configure new resources and access existing resources.

Name: ORS-SystemModule The name of this JMS system module. [More Info...](#)

Scope: Global Specifies if the JMS system module is accessible within the domain, a partition, or a resource group template. [More Info...](#)

Descriptor File Name: jms/ors-systemmodule-jms.xml The name of the JMS module descriptor file. [More Info...](#)

This page summarizes the JMS resources that have been created for this JMS system module, including queue and topic destinations, connection factories, JMS templates, destination sort keys, destination quota, distributed destinations, foreign servers, and store-and-forward parameters.

[Customize this table](#)

Summary of Resources

Showing 1 to 2 of 2 Previous | Next

	Name	Type	JNDI Name	Subdeployment	Targets
<input type="checkbox"/>	ORS-ConnectionFactory	Connection Factory	spl.mwm.abr.connectionfactory	JMSFAServer	ORS-JMSServer
<input type="checkbox"/>	spl.mwm.abr.queue	Uniform Distributed Queue	spl.mwm.abr.queue	JMSFAServer	ORS-JMSServer

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Important! Make sure that in the Menu Block 8 JMS Configuration the server:port in WebLogic Server URL matches that of where the utilities_server1 was deployed.

8. JMS Configuration Context Factory: WebLogic Server URL: Weblogic System User ID: Weblogic System Password: Time Out:	<pre> weblogic.jndi.WLInitialContextFactory t3s://server1.oracle.com:9500 ENCKS(EiuRNj4GIk60mHnoJpHyhF+3vG/D3srce7AFYd2eneU=) ENCKS(8DaPKKFDf3xPi.hv0ZgArLUA66D0dCATXMDNduj9yM3I=) 120000 </pre>
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