# **Oracle® Retail Integration Bus**

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Oracle Retail Integration Bus Installation Guide, Release 15.0

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Oracle Retail Integration Bus Installation Guide, Release 15.0

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Your feedback is important, and helps us to best meet your needs as a user of our products. For example:

- Are the implementation steps correct and complete?
- Did you understand the context of the procedures?
- Did you find any errors in the information?
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- Do you need different information or graphics? If so, where, and in what format?
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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

Oracle Retail Installation Guides contain the requirements and procedures that are necessary for the retailer to install Oracle Retail products.

# Audience

The Installation Guide is written for the following audiences:

- Database administrators (DBA)
- System analysts and designers
- Integrators and implementation staff

# **Related Documents**

For more information, see the following documents in the Oracle Retail Integration Bus 15.0 documentation set:

- Oracle Retail Integration Bus Implementation 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 Java Messaging Service (JMS) Console 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
- Oracle Retail Integration Bus Implementation Guide

# **Customer Support**

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#### https://support.oracle.com

When contacting Customer Support, please provide the following:

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

## **Review Patch Documentation**

When you install the application for the first time, you install either a base release (for example, 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.

# Improved Process for Oracle Retail Documentation Corrections

To more quickly address critical corrections to Oracle Retail documentation content, Oracle Retail documentation may be republished whenever a critical correction is needed. For critical corrections, the republication of an Oracle Retail document may at times not be attached to a numbered software release; instead, the Oracle Retail document will simply be replaced on the Oracle Technology Network Web site, or, in the case of Data Models, to the applicable My Oracle Support Documentation container where they reside.

This process will prevent delays in making critical corrections available to customers. For the customer, it means that before you begin installation, you must verify that you have the most recent version of the Oracle Retail documentation set. Oracle Retail documentation is available on the Oracle Technology Network at the following URL:

http://www.oracle.com/technetwork/documentation/oracle-retail-100266.ht
ml

An updated version of the applicable Oracle Retail document is indicated by Oracle part number, as well as print date (month and year). An updated version uses the same part number, with a higher-numbered suffix. For example, part number E123456-02 is an updated version of a document with part number E123456-01.

If a more recent version of a document is available, that version supersedes all previous versions.

# Oracle Retail Documentation on the Oracle Technology Network

Oracle Retail product documentation is available on the following web site:

http://www.oracle.com/technetwork/documentation/oracle-retail-100266.ht
ml

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

# Conventions

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.

The following text conventions are used in this document:

# Introduction

1

This manual details the installation of the Retail Integration Bus (RIB). Generally, a RIB installation contains the following components:

- An installation of the Retail Integration RIB Hospital administration (RIHA) tool.
- An installation of the RIB Diagnostics and Monitoring tools.

The RIB includes an optional component, the RIB Integration Gateway Services (IGS) that can be installed as a subsystem to the core RIB. The IGS should be installed after the core RIB components have been successfully installed and tested.

**Note:** See the "Integration Gateway Services" section in Chapter 3, "Core Concepts," in the *Oracle Retail Integration Bus Implementation Guide* before attempting installation.

It is important to also follow all installation steps of the Oracle Retail Applications that are being connected to the RIB. Failure to follow these may result in a faulty RIB installation. See the installation guides for the relevant Oracle Retail applications for more information.

**Note:** The instructions provided in this guide apply to a full installation of the RIB. The RIB 15.0.0 application cannot be installed over an existing version, such as 14.x.x.

# **RIB Installation Master Checklist**

This list covers all of the sequential steps required to perform a full installation of the RIB, using either the GUI RIB Installer (strongly recommended) or a command line installation.

Task	Notes
Prepare the Oracle WebLogic Servers for installation of the RIB Components.	Prerequisite
Prepare the Oracle Database schemas that the RIB will use.	Prerequisite
Prepare the JMS.	Prerequisite
Verify the Applications to which RIB will be integrating are configured appropriately.	

Task	Notes
Information to gather for the Installation	During the prerequisites steps, there is information that should be noted that will be used to configure the RIB during the installation process.
Install the RIB using one of these methods:	It is strongly recommended that the RIB Installer GUI method be used.
Installation using the RIB Installer GUI	
or	
Installation using the RIB App Builder Command Line Tools.	
	RIB Functional Artifact URL
RIB installation.	JNDI URL
Complete the setup of RDMT using the same Information to Gather for the Installation.	During either of the installation methods, one of the manual steps will have extracted the RDMT tools to the appropriate directory.
Verify the RIB installation using the RDMT tools.	
Install RIHA.	The RIB Hospital maintenance tool

**Note:** See Appendix C, "RIB Installation Checklists," while performing the installation to minimize the chance of errors.

The RIB Integration Gateway Services (IGS) is an optional component and should be installed after the installation and verification of the RIB components.

Task	Notes
Prepare the WebLogic application servers for installation of the IGS component.	This is a mandatory prerequisite.
Information to gather for the Installation	During the RIB component prerequisites steps, there is information that should be noted that will be used to configure the IGS during the installation process.
Install the IGS.	
Verify the IGS installation using the Soap UI tool and test cases.	See Chapter 4 of the Oracle Retail Integration Bus Operations Guide.

**Note:** See Appendix C, "RIB Installation Check Lists," while performing the installation to minimize the chance of errors.

# **Technical Specifications**

The RIB and Integration Gateway Services have several dependencies on Oracle Retail Application installations, as well as on the Oracle WebLogic Servers. This section covers these requirements.

#### **Requesting Infrastructure Software**

If you are unable to find the necessary version of the required Oracle infrastructure software (database server, application server, WebLogic, etc.) on the Oracle Software Delivery Cloud, you should file a non-technical 'Contact Us' Service Request (SR) and request access to the media. For instructions on filing a non-technical SR, see My Oracle Support Note 1071023.1 - *Requesting Physical Shipment or Download URL for Software Media*.

#### **Check Server Requirements**

**Note:** Oracle Retail assumes that the retailer has applied all required fixes for supported compatible technologies.

Supported On	Versions Supported
Database Server OS	OS certified with Oracle Database 12c (12.x) Enterprise Edition. Options are:
	<ul> <li>Oracle Linux 6 or 7 for x86-64 (Actual hardware or Oracle virtual machine).</li> </ul>
	<ul> <li>Red Hat Enterprise Linux 6 or 7 for x86-64 (actual hardware or Oracle virtual machine)</li> </ul>
	IBM AIX 7.1 (actual hardware or LPARs)
	<ul> <li>Solaris 11.1 SPARC (actual hardware or logical domains)</li> </ul>
	<ul> <li>HP-UX 11.31 Integrity (actual hardware, HPVM, or vPars)</li> </ul>
Database Server 12cR1	Oracle Database Enterprise Edition 12c (12.x) with the following specifications:
	Components:
	Oracle Partitioning
	Examples CD
	Other Components:
	Perl interpreter 5.0 or later
	X-Windows interface
	JDK 1.7 with latest security updates
AQ JMS Server	Oracle Database 12cR1
Application Server OS	OS certified with Oracle Fusion Middleware 12.1.3. Options are:
	<ul> <li>Oracle Linux 6 for x86-64 (Actual hardware or Oracle virtual machine).</li> </ul>
	<ul> <li>Red Hat Enterprise Linux 6 for x86-64 (actual hardware or Oracle virtual machine)</li> </ul>
	IBM AIX 7.1 (actual hardware or LPARs)
	• Solaris 11.1 Sparc (actual hardware or logical domains)
	<ul> <li>HP-UX 11.31 Integrity (actual hardware, HPVM, or vPars)</li> </ul>

Supported On	Versions Supported
Application Server	Oracle Fusion Middleware 12.1.3
	Components:
	<ul> <li>Oracle WebLogic Server 12.1.3</li> </ul>
	<b>Note:</b> WebLogic 12c domain for RIB needs JRF to be installed. Choose the JRF option at the domain creation. JRF needs an RCU schema for its runtime. This schema must be created prior to domain creation using the RCU tool.
	Java:
	■ JDK 1.7.0+ 64 bit with latest security updates
Minimum required JAVA version for all operating systems	Java: JDK 1.7.0+ 64 bit with latest security updates

**Note:** By default, JDK is at 1.6. After installing the rdbms binary, apply patch 19623450. Then follow the instructions on *Oracle Database Java Developer's Guide* 12c (12 x) *Release* 1 to change JDK to 1.7 with latest security updates. The document is available at:

http://docs.oracle.com/database/121/JJDEV/chone.htm#JJDEV0100 0.

Follow-through to complete the post-patch operation.

**Note:** Use GNU Tar when installing on AIX as other utilities fail when extracting the RIB tarballs.

**Note:** Bash shell is supported. Using other shells could have adverse effects.

**Important:** If there is an existing WebLogic installation on the server, you must upgrade to WebLogic 12.1.3. All middleware components associated with WebLogic server should be upgraded to 12.1.3.

Back up the weblogic.policy file (\$WLS\_HOME/wlserver/server/lib) before upgrading your WebLogic server, because this file could be overwritten. Copy over the weblogic.policy backup file after the WebLogic upgrade is finished and the post patching installation steps are completed.

#### Additional Requirement if using Oracle RIB Hospital Administration (RIHA)

The RIHA model and view components require ADF runtime to run properly. Verify that ADF runtime 12.1.3 or higher is available in the WebLogic Application Server (12.1.3) and applied to the domain where RIHA will be installed.

#### **Other Resources**

For information about WebLogic Application Server 12.1.3, see the Oracle WebLogic Server Documentation Library:

http://docs.oracle.com/middleware/1213/wls/index.html

**Note:** See also the Oracle Database Administrator's Guide 12c (12.x) and the Oracle WebLogic Application Server 12.1.3 documentation.

# **RIB Integration Gateway Services (IGS) Supported Operating Systems**

Supported On	Version Supported
Oracle WebLogic Server OS	OS certified with Oracle Fusion Middleware 12.1.3. Options are:
	<ul> <li>Oracle Linux 6 or 7 for x86-64 (Actual hardware or Oracle virtual machine)</li> </ul>
	<ul> <li>Red Hat Enterprise Linux 6 or 7 for x86-64 (Actual hardware or Oracle virtual machine)</li> </ul>
	<ul> <li>IBM AIX 7.1 (Actual hardware or LPARs)</li> </ul>
	<ul> <li>Solaris 11.1 Sparc (Actual hardware or logical domains)</li> </ul>
	HP-UX 11.31 Integrity (Actual hardware or HPVM)
Oracle WebLogic Server	Oracle WebLogic Server 12.1.3

### **Supported Oracle Retail Products**

Supported On	Version Supported
RWMS 15.0	RIB 15.0
RMS 15.0	RIB 15.0
RPM 15.0	RIB 15.0
SIM 15.0	RIB 15.0
AIP 15.0	RIB 15.0
RSB 15.0	RIB 15.0
OMS 15.0	RIB 15.0

#### **Supported Oracle Applications**

Supported On	Version Supported
Oracle E-Business Suite Financials	Oracle E-Business Suite 12.2.4 integration is supported using the Oracle Retail Financial Integration for Oracle Retail Merchandising Suite and Oracle E-Business Suite Financials. See the Oracle® Retail Financial E-Business Suite Integration Solution Implementation/Operations Guide for specific version information.

# **RIB and Oracle Database Cluster (RAC)**

In this release, rib-<app> uses Oracle Streams AQ as the JMS provider. Oracle Streams AQ is built on top of Oracle database system. Because AQ is hosted by the Oracle database system, RIB can take advantage of database RAC capability for its JMS provider. By using RAC AQ as RIB's JMS provider, you can scale RIB's JMS server vertically and horizontally to meet any retailer's scalability and high availability need.

At runtime, rib-<app> uses the database for keeping track of its RIB Hospital records. These RIB Hospital tables can be hosted by an Oracle RAC database providing high availability and scalability for these RIB Hospital records.

All rib-<app>s use the Oracle type 4 Java Database Connectivity (JDBC) driver to connect to the RIB Hospital database and the AQ JMS server. When the RIB Hospital database and the AQ JMS servers are hosted by an Oracle RAC database, the only configuration change required in rib-<app> is the RAC JDBC connection URL.

**Note:** RIB supports only the use of the Oracle Type 4 Thin Java Database Connectivity (JDBC) driver (ojdbc7.jar) for all JDBC connections, including RAC.

# **RIB and Oracle WebLogic Server Cluster**

RIB uses JMS server for message transportation between the integrating retail applications. Because RIB must preserve the message publication and subscription ordering, rib-<app>s deployed in Oracle WebLogic Server cannot be configured in an active-active cluster mode. In active-active cluster mode, multiple subscribers and publishers will process messages simultaneously and there will be no way to preserve message ordering.

The rib-<app> can be deployed to a single instance of an Oracle WebLogic server that is clustered (active-passive). In this configuration, even though rib-<app> is deployed in a WebLogic cluster, multiple instances of the same rib-<app> are not running at the same time, as there is only one WebLogic instance where the rib-<app> is deployed. So RIB can still preserve message ordering.

To truly configure rib-<app>s for high availability, the only option is to configure it in active-passive mode.

# **Preinstallation Tasks**

Before you begin the installation process, read the *Oracle Retail Integration Bus Implementation Guide* to plan a RIB deployment.

Planning may include the decision to employ multiple JMS servers, which can isolate flows for performance and operational QoS. For information, see "Preinstallation Steps for Multiple JMS Server Setup" in this guide.

# Determine the UNIX User Account to Install the Software

The user account that installs RIB is an important consideration. Options, pros, and cons are discussed in the *Oracle Retail Integration Bus Implementation Guide*.

**Note:** See the "Pre-Implementation Considerations" in the *Oracle Retail Integration Bus Implementation Guide*.

# rib-home Directory

The RIB software components can be distributed across multiple application servers depending on the deployment option selected, but they are centrally configured and managed.

**Note:** See the section, "Recommended Deployment Option," in the *Oracle Retail Integration Bus Implementation Guide*.

The location from which all rib-<app> applications are managed is known as rib-home. This directory location (rib-home) contains all the tools and configurations to manage the life cycle and operations of the RIB installation across the enterprise. There must be one rib-home directory for each development, test and production environment. The rib-home directory is not a staging (throw away) directory. It must be available at all times to support the lifecycle management of the RIB system. After initial configuration of the Database server and the Java EE application server, all rib-<app> application level work must be done only from the rib-home directory location.

**Note:** See the section, "RIB Software Life Cycle," in the *Oracle Retail Integration Bus Implementation Guide*.

# Prepare WebLogic Application Server for RIB Components

This section describes the process of preparing the Oracle WebLogic servers to install the rib-<app> Java EE application.

#### Create the RIB Managed Server Instances

All RIB components are Java EE and run in WebLogic managed server instances in the WebLogic Application Server. The rib-<app> Java EE application runs in its own managed server instance called rib-<app>-server. Each rib-<app> application requires a separate managed server instance that is not shared with any other application. All managed servers can be under one domain; it is optional to create a new domain or to use the JRF domain of WLS. It is a new requirement for 15.0 that the WLS domain for RIB deployment must be a JRF domain. JRF needs RCU.

Use the following steps to create a new managed server instance for rib-<app> and configure it to RIB requirement.

**Note:** For information about using commands to create a managed server instance, see the WebLogic Application Server Administrator's Guide 12.1.3.

Acceptable values for <app> are rms, rwms, tafr, sim, rpm, aip, oms, and rfm.

There is one RIB specific managed server instance that must be created regardless of the other application deployment choices.

rib-func-artifact-server. (This naming convention is recommended, but not required.)

There is one RIB specific managed server instance that must be created depending on the deployment configuration. If RMS is installed with RWMS and/or SIM, the TAFRs must be installed.

 rib-tafr-server. (It is recommended, but not required, that this naming convention be followed).

The following is a list of optional application instances, depending on deployment choices. It is recommended, but not required, that you use the following naming convention:

- rib-aip-server
- rib-rfm-server
- rib-rms-server
- rib-rpm-server
- rib-rwms-server
- rib-oms-server
- rib-sim-server

**Note:** See Oracle WebLogic Server 12.1.3 documentation for more details on How to Create managed servers.

To create the rib<app>server, complete the following steps:

- 1. Log in to the WebLogic administration console GUI (http://<host>:console) as administrator.
- **2.** Using the left side menu, navigate to Environment > Servers.

L	
₽-Environment	I
Servers	I
Clusters	I
Virtual Hosts	I
Migratable Targets	
Machines	I
Work Managers	I
Startup & Shutdown Classes	I
Deployments	I
🕀 -Services	I
Security Realms	I
🕂 Interoperability	
Diagnostics	
	1

#### 3. Click Lock & Edit.

Change	Center
View c	anges and restarts
	ling changes exist. Click the Release ration button to allow others to edit the
	Lock & Edit

- 4. Click New.
- **5.** Enter the name, port, and listen address of the server instance to be created. For example:
  - Server Name: rib-<app>-server
  - Server Listen Address: <server-name>
  - Server Listen Port: <listen-port>

Create a New Server				
Back Next Finish Cancel				
Server Properties				
The following properties will be used to identify your new server. * Indicates required fields				
What would you like to name your new server?				
* Server Name:	rib- <app>-wls-instance</app>			
Where will this server listen for incoming connections?				
-				
Server Listen Address:	<server-name></server-name>			
* Server Listen Port:	<li>listen-port&gt;</li>			
	· · ·			
Should this server belong to a duster?				
No, this is a stand-alone server.				
○ Yes, create a new cluster for this server.				
V resyndexte a new cluster for this server.				
Back Next Finish Cancel				

6. Click Next. Click Finish. Make sure you see this instance listed under Servers

#### Install NodeManager

Install NodeManager if it was not created during domain install. NodeManager is required so that the managed servers can be started and stopped through the administration console. Only one NodeManager is needed per WebLogic installation.

- **1.** Log in to the administration console.
- 2. Click Lock & Edit and navigate to Environments> Machines.

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New changes and restarts	Home >Summary of Servers >Summary of Hachines			
to pending changes exist. Click the Release configuration button to allow others to edit the lonari.	Summary of Hachines			
Lock & Edit Release Configuration	A machine is the logical representation of the computer that hosts are or determine the optimum server in a cluster to which certain basis, such as conjunction with Adde Manager to start remote servers. This page displays key information about each machine that has been canfit	nore WebLogic Server Instances (servers). WebLogic Server uses configured nadvine names to MTP session reglication, are delegated. The Administration Server uses the machine definition in infigured in the current WebLogic Server domain.		
omain Structure				
Pomain A	P Customize this table			
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3. Click New.

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Change Center	1 Home Log Out Preferences 🖾 Record Help	Welcome, weblogic Connected to: APPDomain					
View changes and restarts	Home >Summary of Servers >Summary of Hachines						
ha pending dhanges sollt. Click the Belease Configuration button to allow others to edit the doman. Lock & Edit Resease Configuration Domain Structure APDComm	Create a New Hachine           OK         Cancel           Hachine Progerties         The following properties will be used to identify your new Machine.           * Indicates repured fields         * Indicates repured fields						
© thursonnent -Serves -Custers -Wtule Hosts -Waytable Targets -Wax Managers -Wax Managers -Startup & Studion Classes -Deckownents 8 Services -Searby Realing -Searby Realing	What would you like to name your new Madrine? "Name: redexh0072 Specify the type of machine operating system. Hachine Of: Unix:  Cancel Cancel						
R Characters		Internet 5 + 100% •					

- **4.** Set the following variables:
  - Name: Logical machine name
  - Machine OS: UNIX
- 5. Click Next.
- 6. Update the details below and click the **Finish** button.
  - Type: Plain
  - Listen Address: For example, ribhost.example.com
  - Listen Port: Default port (for example, 5556) or any available port

Create a New Machine					
Back, Net Fresh Cancel					
<b>Node Manager Properties</b>	Node Manager Properties				
The following properties will be used to o	The following properties will be used to configure the Node Manager on this machine.				
What type of Node Manager is numming on this grover, and what protocol should be used to communicate with it?					
Туре	Plain				
For a Java based node manager, what ad	dress and port is this Node Manager configured to listen at?				
Listen Address:	localhost				
Listen Port:	5556				
For a script based node manager, additor	For a script based node manager, additional properties may be configured.				
Node Hanager Home:					
Shell Command:					
Debug Enabled					
Back Not Frish Cancel					

- 7. Click Activate Changes.
- 8. Click Lock & Edit.
- **9.** Navigate to Environments > machines. Click on the machine name and select the Servers tab.

Settings for redev/v0072 - APPDomain							
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No pending changes exist, Click the Release	Settings for redev/v0072						
Configuration button to allow others to edit the domain.	Configuration Monitoring Not	es .					
Lock & Edt	General Node Manager Serve	**					
Release Configuration							
	This page displays the servers that	have been assigned to this Ha	chine. You can select a server to o	onfigure from the lat of a	ivalable servers.		
Domain Structure							
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- Environment							
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<ul> <li>Create and configure machines</li> </ul>							
<ul> <li>Create Managed Servers</li> </ul>							
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System Status							
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- **10.** Add the managed servers that need to be configured with NodeManager. Save the changes.
- **11.** Click **Add** to repeat for additional servers.
- **12.** Click Activate Changes.
- **13.** Start NodeManager from the server using the startNodeManager.sh at \$WL\_HOME/wlserver/server/bin.

**Note:** To activate changes, the server must be stopped: \$WL\_ HOME/user\_projects/domains/<RIB\_ Domain>/bin/stopManagedWebLogic.sh <rpm>-server \${server\_ name}:\${server\_port}

**14.** Edit the nodemanager.properties file at the following location with the below values:

\$WLS\_HOME/wlserver/common/nodemanager/nodemanager.properties

- SecureListener=false
- StartScriptEnabled=true
- StartScriptName=startWebLogic.sh
- **15.** NodeManager must be restarted after making changes to the nodemanager.properties file.

**Note:** The nodemanager.properties file is created after NodeManager is started for the first time. It will not be available before that point.

#### Expand the RIB Kernel Distribution

To expand the RIB kernel distribution, complete the following steps:

- 1. Log in to the UNIX server as the user who will own the RIB development workspace. Create a new directory for the workspace. There should be a minimum of 800 MB of disk space available.
- **2.** Copy the RIB Kernel package (RibKernel15.0.0ForAll15.x.xApps\_eng\_ga.jar) into the workspace and extract its contents.
- **3.** Extract the jar file using this command: \$JAVA\_HOME/bin/jar -xf RibKernel15.0.0ForAll15.x.xApps\_eng\_ga.jar
- **4.** Change directories to Rib1500ForAll15xxApps/rib-home. This location will be referred to as <RIB\_HOME> for the remainder of this chapter.

#### Configure the rib-<app>-server

To configure the rib-<app>-wls-instance, complete the following steps.

- **1.** Configure the startup script
  - a. Take a backup of the script \$DOMAIN\_HOME/base\_domain/bin/ startWebLogic.sh
  - **b.** Edit the script \$DOMAIN\_HOME/base\_domain/bin/ startWebLogic.sh to add the following attributes.

```
JAVA_OPTIONS="-Dweblogic.ejb.container.MDBMessageWaitTime=2 ${JAVA_
OPTIONS}"
JAVA_VM="-server"
USER_MEM_ARGS="-Xms1024m -Xmx2048m "
CLASSPATH=$DOMAIN_HOME/servers/$SERVER_NAME:$CLASSPATH
```

The following is a portion of a startWebLogic.sh sample.

```
echo "."
echo "."
echo "JAVA Memory arguments: ${MEM_ARGS}"
echo "."
echo "CLASSPATH=${CLASSPATH}"
echo "."
echo "PATH=${PATH}"
echo "."
echo "* To start WebLogic Server, use a username and *"
echo "* password assigned to an admin-level user. For *"
echo "* server administration, use the WebLogic Server *"
                                          * "
echo "* console at http://hostname:port/console
# CLASS CACHING
```

```
if [ "${CLASS_CACHE}" = "true" ] ; then
echo "Class caching enabled..."
JAVA_OPTIONS="${JAVA_OPTIONS} -Dlaunch.main.class=${SERVER_CLASS}
-Dlaunch.class.path="${CLASSPATH}"
-Dlaunch.complete=weblogic.store.internal.LockManagerImpl -cp ${WL_
HOME}/server/lib/pcl2.jar"
export JAVA_OPTIONS
SERVER_CLASS="com.oracle.classloader.launch.Launcher"
fi
# START WEBLOGIC
echo "starting weblogic with Java version:"
${JAVA_HOME}/bin/java ${JAVA_VM} -version
if [ "${WLS REDIRECT LOG}" = "" ] ; then
echo "Starting WLS with line:"
echo "${JAVA_HOME}/bin/java ${JAVA_VM} ${MEM_ARGS}
-Dweblogic.Name=${SERVER_NAME} -Djava.security.policy=${WL_
HOME}/server/lib/weblogic.policy ${JAVA_OPTIONS} ${PROXY_SETTINGS}
${SERVER_CLASS}"
${JAVA_HOME}/bin/java ${JAVA_VM} ${MEM_ARGS} -Dweblogic.Name=${SERVER_NAME}
-Djava.security.policy=${WL_HOME}/server/lib/weblogic.policy ${JAVA_
OPTIONS} ${PROXY_SETTINGS} ${SERVER_CLASS}
else
echo "Redirecting output from WLS window to ${WLS_REDIRECT_LOG}"
${JAVA_HOME}/bin/java ${JAVA_VM} ${MEM_ARGS} -Dweblogic.Name=${SERVER_NAME}
-Djava.security.policy=${WL HOME}/server/lib/weblogic.policy ${JAVA
OPTIONS} ${PROXY_SETTINGS} ${SERVER_CLASS} >"${WLS_REDIRECT_LOG}" 2>&1
fi
```

stopAll

**Note:** In the startWebLogic script, the above statements must be added before the call is made to start the server.

**2.** Update \$WL\_HOME/<wlserver>/server/lib/weblogic.policy file with the information below.

**Note:** If copying the following text from this guide to UNIX, ensure that it is properly formatted in UNIX. Each line entry beginning with "permission" must terminate on the same line with a semicolon.

**Note:** <WEBLOGIC\_DOMAIN\_HOME> in the following example is the full path of the Weblogic Domain, <managed\_server> is the RIB managed server created, and <context\_root> correlates to the value entered for the application deployment name/context root of the application that you will supply during installation. Note that the rib-func-artifact-instance does not need to get added to this file. See the example below. There should not be any space between file:<WEBLOGIC\_DOMAIN\_HOME>. **Note:** The path tmp/\_WL\_user/rib-<app>.ear will not be available before the deployment.

```
grant codeBase "file:
<WEBLOGIC_DOMAIN_HOME>/servers/<managed_server>/tmp/_WL_user/<context_root>/-"
permission java.security.AllPermission;
permission oracle.security.jps.service.credstore.CredentialAccessPermission "
credstoressp.credstore", "read, write, update, delete";
permission oracle.security.jps.service.credstore.CredentialAccessPermission "
credstoressp.credstore.*", "read,write,update,delete";
};
An example of the full entry that might be entered is:
grant codeBase "file: /u00/webadmin/product/ 15.0.0_RIB/WLS/user_
projects/domains/RIBDomain/servers/rib-rwms-server/tmp/_WL_user/rib-rwms.ear/-"
permission java.security.AllPermission;
permission oracle.security.jps.service.credstore.CredentialAccessPermission
"credstoressp.credstore", "read, write, update, delete"
permission oracle.security.jps.service.credstore.CredentialAccessPermission
"credstoressp.credstore.*", "read, write, update, delete";
};
```

**Note:** Add the path to the patch jars. If any patches are installed into WLS (now or in the future) and this line is not included it could cause the RIB to fail. WLS\_HOME refers to the location where Weblogic 12.1.3 has been installed.

For example:

```
grant codeBase "file:<WLS_HOME>/patch_wls/patch_jars/-" {
    permission java.security.AllPermission;
    permission
    oracle.security.jps.service.credstore.CredentialAccessPermission
    "credstoressp.credstore", "read,write,update,delete";
    permission
    oracle.security.jps.service.credstore.CredentialAccessPermission
    "credstoressp.credstore.*", "read,write,update,delete";
    };
    The AdminServer needs to be bounced after the weblogic policy file
```

The AdminServer needs to be bounced after the weblogic.policy file is modified.

3. Copy the RIB packaged jars to the server library.

Copy aqapi-<version>.jar and ojdbc7-<version>.jar to \$WL\_HOME/wlserver/server/lib.

Example:

\$cd <RIB\_HOME>/integration-lib/third-party/oracle/db/12.1.0.2

\$cp aqapi-<version>.jar \$WL\_HOME/wlserver/server/lib

\$cp ojdbc7-<version>.jar \$WL\_HOME/wlserver/server/lib

4. Start rib-<app>managed server.

WebLogic managed servers where rib-<app> is deployed can be started two ways.

#### Option 1: Run startup scripts through the command line

- 1. Log in to the machine where WLS was installed with the operating system user that was used to install the WebLogic Application Server (WLS).
- 2. Navigate to DOMAIN\_HOME/bin.

For example:

\$cd product/15.0.0\_RIB/WLS/user\_projects/domains/RIBDomain/bin

**3.** Run the startManagedWebLogic script.

For example:

sh startManagedWebLogic.sh rib-rms-wls-instance

#### **Option 2: Start WebLogic using administration console.**

NodeManager must be running for starting manged server from the console. The nodemanager.properties and startWeblogic.sh must be configured with the properties that have been mentioned above. (See steps 1 and 3 above.)

**Note:** RIB applications cannot be deployed from the administration console. They must be run through the installer GUI or on the command line.

- 1. Log in to the WebLogic administration console GUI (http://<host>:console) as administrator
- 2. Using the right side menu, navigate to Environment > Servers
- **3.** Click rib-<app> managed server.
- 4. Click the **Control** tab.
- 5. Select the managed server instance that must be started.
- 6. Click Start.
- 7. Repeat this procedure for all rib-<app>managed servers.

# **Database Installation Tasks**

There are several tasks that must be performed for RIB and verified in the participating applications.

## **Oracle Database Schemas**

Each Oracle Retail Application has an associated set of RIB Artifacts that must be installed as part of the RIB integration (for example, the RIB Hospital Tables, CLOB API libraries, and Oracle Objects).

- Ensure that these have been installed appropriately, per the individual applications.
- Ensure that the TAFR Hospital user and objects exist.
- Ensure that the RIB user has appropriate access and permissions.

# **RIB and Multibyte Deployments**

If RIB is deployed in an environment where multibyte characters are used in the message data, there are considerations that must be understood. Improper database setup can lead to error messages indicating the inability to insert values that are too long.

**Note:** See the section, "Pre-Implementation Considerations for Multibyte Deployments," in the *Oracle Retail Integration Bus Implementation Guide*.

These considerations are beyond the scope of the RIB documentation and should be discussed with the site Database Administration team prior to installation.

# Verify that Correct RIB Hospital Database Objects are Installed in the Retail Application's Schema

Every rib-<app> application needs a database schema that contains the RIB Hospital tables. Externalizing the RIB Hospital tables from the application database schema is supported.

There are two options:

 rib-<app> can use the respective application database schema to host the RIB hospital tables.  rib-<app> can have a separate database or a separate schema to host the RIB hospital tables.

**Note:** The RIB Hospital schema must not be shared across retail applications. Each rib-<app> should have its own RIB hospital tables in both of the options listed above.

These RIB Hospital tables are not installed as part of the RIB installation, but they are installed as part of the Retail applications database schema installation. Verify that the four RIB Hospital tables are already installed in the respective database schema.

**Note:** See Appendix C, "RIB Installation Checklists."

The database schema for all retail applications must have the database objects defined in the RIB delivered kernel SQL script called 1\_KERNEL\_CREATE\_OBJECTS.SQL.

**Note:** The 1\_KERNEL\_CREATE\_OBJECTS.SQL script is available in the rib-private-kernel-database-library-<version>.jar file. The rib-private-kernel-database-library-<version>.jar can be found in the rib-home directory structure (/Rib1500ForAll15xxApps/rib-home/integration-lib/internal-build/rib).

**Note:** See the section, "RIB App Builder rib-home," in the *Oracle Retail Integration Bus Operations Guide*.

Because these database objects should have already been installed as part of the retail application's installation process, at this point just verify that the four hospital tables and the sequence exist in each application's database schema. Make sure that they have the correct columns to match this release of the RIB.

It is strongly recommended that all applications have a separate RIB Hospital and that they be logically and operationally associated with that application.

**Note:** See "RIB Software Life Cycle" in the *Oracle Retail Integration Bus Implementation Guide*.

### Verify that Database XA Resources are Configured for RIB

RIB uses two phase commit transaction protocol (XA) to maintain consistency between the RIB Hospital database, application database and the JMS server. The Oracle database XA resources must be configured in order to participate in XA transaction. Check to see that the XA scripts have been run on the database to make it XA transaction aware. The initxa.sql script needs to be run before XA transactions will work. These are usually installed by default in 12c (12.x).

# Verify that Correct RIB Functional Artifacts Database Objects Are Installed in PL/SQL Applications Database Schema

This section applies to PL/SQL application only, RMS, ORFM, and RWMS.

There are two ways through which PL/SQL applications exchange payload data with RIB:

- Oracle Objects payloads
- CLOB xml parsing and building library

RMS and ORFM use both mechanisms, whereas RWMS uses only Oracle Objects to communicate with RIB.

- 1. Verify that the RMS, ORFM, and RWMS database schema have the RIB delivered Oracle Objects installed. Oracle Objects are not installed as part of RIB installation. They are installed as part of the retail application database schema installation.
- **2.** Verify that the PL/SQL retail application database schema already has the database objects defined equivalent to the ones defined in the RIB delivered script called InstallAndCompileAllRibOracleObjects.sql.

**Note:** See the *Oracle Retail Integration Bus Operations Guide*. InstallAndCompileAllRibOracleObjects.sql script is packaged as a part of rib-public-payload-database-xml-library.zip and is available under *<RIB-HOME>*/application-assembly-home/rib-func-artifacts/.

- **3.** Verify that RMS (not RWMS) database schema has the RIB CLOB XML parsing and building library code installed. These CLOB XML libraries are not installed as part of RIB installation. They are installed as part of the retail application database schema installation.
- **4.** Verify that the RMS retail application database schema has all the database objects defined equivalent to the ones defined in the RIB delivered script called 1\_CLOB\_CREATE\_OBJECTS.SQL.

**Note:** See the Oracle Retail Integration Bus Operations Guide. 1\_CLOB\_ CREATE\_OBJECTS.SQL script is packaged as a part of rib-public-payload-database-xml-library.zip and is available under <*RIB-HOME*>/application-assembly-home/rib-func-artifacts/.

**5.** Update the RIB functional artifact URL in the RMS table RIB\_OPTIONS to point to the location where rib-func-artifact.war will be deployed.

XML\_SCHEMA\_BASE\_URL= http://<hostname>:<port>/rib-func-artifact/payload/xsd

Where:

- hostname is the host name where rib-func-artifact.war will be deployed.
- port is the http port of the WebLogic server where rib-func-artifact.war will be deployed.

# **Create RIB TAFR RIB Hospital**

For RIB, there is a separate RIB Hospital for the rib-tafr application.

- 1. Create a database user for the rib application rib-tafr.
- 2. Make sure that the TAFR Hospital user has the proper database permission.

Example TAFR User Create SQL:

CREATE USER *<tafr hosp user>* 

IDENTIFIED BY <tafr hosp password>

DEFAULT TABLESPACE "USERS" TEMPORARY TABLESPACE "TEMP";

GRANT "CONNECT" TO <tafr hosp user>;

GRANT "RESOURCE" TO <tafr hosp user>;

ALTER USER <tafr hosp user>

QUOTA UNLIMITED ON USERS;

The rib-tafr application's database user must have the RIB Hospital tables. To create the RIB Hospital tables, run the 1\_KERNEL\_CREATE\_OBJECTS.SQL script.

**Note:** The 1\_KERNEL\_CREATE\_OBJECTS.SQL script is available in the rib-private-kernel-database-library-<version>.jar file. The rib-private-kernel-database-library-<version>.jar can be found in the rib-home/integration-lib/internal-build/rib/ directory structure. Extract the script and provide it to the Database Administrator (DBA) to create the required database objects.

## Prepare Oracle AQ JMS Provider

Oracle Streams AQ is the JMS provider that RIB uses for asynchronous communication. It requires Oracle Database Enterprise Edition.

It is strongly recommended that the Oracle Database instance configured as the JMS provider is not shared with any other applications and not be on the same host (physical or logical) with any other applications. The steps included here are those needed to prepare for the installation, there are many architectural issues and operational parameters that must be considered before the installation. These are covered in other RIB documents.

#### **RIB and AQ JMS Database Processes**

The RIB's use of the AQ JMS should be understood, and the Oracle Database instance that is configured as the AQ JMS must be configured to support the number of server side user processes needed for the RIB adapters that will be installed and configured in each deployment environment. The number of JMS AQ processes depends on the RIB configuration.

**Note:** See the section, "Pre-Implementation Considerations - JMS Server Considerations," in the Oracle Retail Integration Bus Implementation Guide. **Note:** See the section, "Deployment Architectures," in the *Oracle Retail Integration Bus Implementation Guide*. See also the "JMS Provider Management" and "The RIB on AQ JMS" sections in the *Oracle Retail Integration Bus Operations Guide*.

Create the RIB AQ JMS user with the appropriate access and permissions to the Oracle Streams AQ packages. This user must have at least the following database permissions:

- CONNECT
- RESOURCE
- CREATE SESSION
- EXECUTE ON SYS.DBMS\_AQ
- EXECUTE ON SYS.DBMS\_AQADM
- EXECUTE ON SYS.DBMS\_AQIN
- EXECUTE ON SYS.DBMS\_AQJMS

Example SQL:

CREATE USER <rib aq user> IDENTIFIED BY <rib aq password> DEFAULT TABLESPACE "RETAIL\_DATA" TEMPORARY TABLESPACE "TEMP"; GRANT "CONNECT" TO <rib aq user>; GRANT "RESOURCE" TO <rib aq user>; GRANT CREATE SESSION TO <rib aq user>; GRANT EXECUTE ON "SYS"."DBMS\_AQ" TO <rib aq user>; GRANT EXECUTE ON "SYS"."DBMS\_AQADM" TO <rib aq user>; GRANT EXECUTE ON "SYS"."DBMS\_AQIN" TO <rib aq user>; GRANT EXECUTE ON "SYS"."DBMS\_AQIN" TO <rib aq user>; GRANT EXECUTE ON "SYS"."DBMS\_AQIN" TO <rib aq user>; ALTER USER <rib aq user> QUOTA UNLIMITED ON RETAIL\_DATA;

Note: See also:

Oracle® Database Administrator's Guide 12c Release 1 (12.1.0.2)

*Oracle*<sup>®</sup> *Streams Advance Queuing User's Guide and Reference 12c Release 1 (12.1.0.2)* 

# **Run the RIB Application Installer**

This chapter provides instructions for running the RIB Application Installer.

**Note:** If there is an existing WebLogic installation on the server, you must upgrade to WebLogic 12.1.3. All middleware components associated with WebLogic server should be upgraded to 12.1.3.

Back up the weblogic.policy file (\$WLS\_HOME/wlserver/server/lib) before upgrading your WebLogic server, because this file could be overwritten. Copy over the weblogic.policy backup file after the WebLogic upgrade is finished and the post patching installation steps are completed.

### **RIB Application Installer Tasks**

The RIB application installer can be used to perform any of the tasks below. For a new installation, all tasks are recommended.

- Run the Preparation Phase to unpack files, prepare the workspace, and perform preinstallation verifications.
- Generate the rib-deployment-env-info.xml file, which configures the RIB installation.
- Run the Assembly Phase to build the EAR and WAR files for the rib-<app>applications.
- Configure the Advanced Queuing JMS topics for RIB.
- Run the Deployment Phase to deploy the EAR and WAR files to the application servers.

For more information about the Preparation, Assembly and Deployment Phases, see the *Oracle Retail Integration Bus Operations Guide*.

### How to Run the RIB Application Installer

To run the RIB application installer, do the following.

- **1.** Undeploy all old rib-apps and completely remove them from the AdminServer upload directory as follows.
  - **a.** Shut down all the rib-\* servers.
  - **b.** Delete all rib-\* apps from the deployments menu in WebLogic.

**Note:** Be sure to remove ONLY the rib-\* apps and no others. If other applications are removed, their deployments will break.

**c.** Remove them from the upload directory if they exist:

```
cd [RIB_DOMAIN]/servers/AdminServer/upload rm -rf rib-*
```

- d. Start the rib-servers up again before starting the installer.
- **2.** Expand the RIB Kernel distribution as described in Expand the RIB Kernel Distribution.

**Note:** For RIB installation in AIX platform, castor libraries may encounter an issue during the check\_version\_and\_unpack step. Please execute the following instructions as a work around to resolve the issue.

- Copy castor-1.3.2-xml.jar from <rib-home>/integration-lib/third-party/exolab to a temporary directory.
- **2.** Extract castor.properties from the jar file. Use the following command.

jar -uf castor-xml-1.3.2.jar castor.properties

**3.** Update the caster.properties file, comment the property org.exolab.castor.xml.serializer.factory and uncomment org.exolab.castor.xml.serializer.factory, like shown below:

#org.exolab.castor.xml.serializer.factory=org.exolab.castor.xml.Xer cesJDK5XMLSerializerFactory org.exolab.castor.xml.serializer.factory=org.exolab.castor.xml.Xerc esXMLSerializerFactory

**4.** Update the jar with update property file

jar -uf castor-xml-1.3.2.jar castor.properties

 Copy castor-1.3.2-xml.jar to <rib-home>/integration-lib/third-party/exolab **Note:** For RIB installations using AIX, xerces libraries may encounter an issue at runtime, causing rib-<app> to go a 'Warning' state and be non-functional.

If the rib-home and deployed rib-<app> are both going to be on AIX, then no action is required. The RIB compiler will prepare the rib-<app> with the correct AIX-specific configurations.

If the rib-home is located on any non-AIX platform but the rib-<app> is going to be deployed to AIX, then execute the following instructions:

1. Locate the rib-app-compiler.sh file in rib-home

\$RIB-HOME/application-assembly-home/bin/rib-app-compiler.s

 Edit the rib-app-compiler.sh script to include a system property rib.runtime.os.name="AIX" as shown below.

exec "\$JAVA\_HOME/bin/java" -Drib.runtime.os.name="AIX" -jar ../../integration-lib/internal-build/rib/rib-app-builder\${CURRE NT\_VERSION}.jar oracle.retail.rib.compiler.Main \$\*

If the rib-home is located on an AIX platform but the rib-<app> is going to be deployed to any non-AIX platform, then execute the following instructions:

1. 1. Locate the rib-app-compiler.sh file in rib-home

\$RIB-HOME/application-assembly-home/bin/rib-app-compiler.s

2. Edit the rib-app-compiler.sh script to include a system property rib.runtime.os.name="[OS Name]" where [OS Name] is HP, Solaris or OL, as shown below.

exec "\$JAVA\_HOME/bin/java" -Drib.runtime.os.name="[OS Name" -jar ../../integration-lib/internal-build/rib/rib-app-builder\${CURRE NT\_VERSION}.jar oracle.retail.rib.compiler.Main \$\*

- Download the RIB Functional Artifacts distribution (RibFuncArtifact15.0.0ForAll15.0.0Apps\_eng\_ga.tar), and copy it into the <RIB\_ HOME>/download-home/rib-func-artifacts directory. Do not untar the file.
- 4. Download the tar file distributions for each rib-<app> application (RibPak15.0.0For<app>15.0.0\_eng\_ga.tar) that you will install. Copy the files into the <RIB\_HOME>/download-home/all-rib-apps directory. Do not untar the files.
- 5. Download the RIB Diagnostic and Monitoring Tools (RDMT) package (Rdmt15.0.0ForAll15.x.xApps\_eng\_ga.tar) and untar it into the <RIB\_ HOME>/tools-home directory. Several files will be placed under the rdmt directory when you untar the package. This allows the installer to run the <RIB\_ HOME>/tools-home/rdmt/configbuilder.sh script as part of the RIB installation.
- **6.** For multiple JMS servers only: If your RIB installation includes more than one JMS server, you must complete the additional preinstallation steps in the section, Preinstallation Steps for Multiple JMS Server Setup.
- **7.** Set the JAVA\_HOME environment variable. The JAVA\_HOME must be set to a JDK 1.7.0+ 64 bit with latest security updates, within the 1.7 code line. 64 bit. For Linux and Solaris OS only.

8. Be sure there are no pre-existing instances of ANT in your path:

\$ unset ANT\_HOME\$ unset ANT\_CONTRIB\$ unset CLASSPATHThe following command should not find the ant executable:

\$ which ant

- **9.** If you are using an X server, such as Exceed, set the DISPLAY environment variable so that you can run the installer in GUI mode (recommended). If you are not using an X server, or the GUI is too slow over your network, unset DISPLAY for text mode.
- **10.** Make sure that all WebLogic instances that you intend to deploy to are currently running.
- **11.** Give execute permissions to rib-home:

For example, chmod -R 700 rib-home.

- **12.** Change directories to the <RIB\_HOME> directory.
- **13.** Run the rib-installer.sh script. The RIB installer appears.

**Note:** See Appendix A, "Appendix: RIB Application Installer Screens" for details about every screen and input field in the installer.

- **14.** Restart the rib-<app>-server. During the installation process a shared library is created that contains the JDBC Driver update. For PL/SQL applications, it is necessary to bounce the WebLogic managed server instance.
- **15.** If the installer finds the configbuilder.sh script, it will attempt to run it. However, if the installer is unable to run the RDMT script or if the RDMT setup failed for some reason, manually run the RDMT at this time to verify the installation.

### Check the Log Files to Ensure Installation was Successful

To check log files, do the following.

- Check the log files in <RIB\_HOME>/deployment-home/log to ensure that all RIB applications deployed successfully.
- 2. If errors are encountered, verify that the installer inputs were correct.
- If all installer inputs were correct, it may be necessary to rerun the installer with the existing <RIB\_ HOME>/deployment-home/conf/rib-deployment-env-info.xml file. Running the installer multiple times usually resolves any extraneous errors.

### Preinstallation Steps for Multiple JMS Server Setup

**Note:** Using multiple JMS servers allows for the isolation of flows for performance and operational QoS. For more information, see "JMS Provider Management" section in the *Oracle Retail Integration Bus Operations Guide*.

If your RIB installation will include multiple JMS servers, additional steps are required before you can run the installer.

**Note:** Do not follow these steps if you are using only one JMS server.

- 1. Determine the family that must be configured for multiple JMS.
- 2. Locate the rib-integration-flows.xml inside the rib-func-artifacts.war.

Examine the rib-integration-flows.xml to identify all the RIB applications participating in the integration flows that must be configured with multiple JMS.

- **3.** Ensure that a new AQ JMS database server (not a schema) is set up. For information see "Prepare Oracle AQ JMS Provider" in this guide.
- Ensure that any additional AQ JMS are not in the same database server. Each new AQ JMS requires a new database server.

**Note:** If this is a first-time installation (or if you are using the installer to rewrite the rib-deployment-env-info.xml) you do not need to complete Step 6.

- **5.** Add JMS servers by updating rib-deployment-env-info.xml.
- **6.** In the rib-home, modify the appropriate files for each of the rib-<apps> that participate in the integration flow. Point the adapters to the right JMS server. The following applies to this step:
  - rib-<app>-adapters.xml
  - rib-<app>-adapter-resources.properties

**Note:** For more information on this step, see the *Oracle Retail Integration Bus Operations Guide*.

**7.** Once Step 6 is finished, the installer tool does the following to complete preinstallation activities:

**Note:** This step is not required if this is a first time installation or when the installer is used for installation.

- Compiles all rib apps (\$RIB\_HOME/application-assembly-home/bin/rib-app-compiler.sh).
- Runs prepare-jms for the newly-created JMS server (\$RIB\_HOME/deployment-home/bin/rib-app-deployer.sh -prepare-jms<jms2>). This step configures additional JMS servers.
- Deploys (\$RIB\_HOME/deployment-home/bin/rib-app-deployer.sh rib-<app>).

# **Run RDMT to Verify the Installation**

The RIB Diagnostic and Monitoring Tools (RDMT) should be used at this time to verify the RIB installation. See "Diagnostic and Monitoring Tools" in the *Oracle Retail Integration Bus Operations Guide* for how to configure and use the RDMT tools.

# Backups and Logs Created by the Installer

The RIB application installer creates the following backup and log files:

- Each time the installer is used to generate a new rib-deployment-env-info.xml, a backup of the existing file will be created in: <RIB\_ HOME>/deployment-home/conf/archive/rib-deployment-env-info.xml.
   <timestamp>
- Each time the installer is run, the output of the installer script will be written to a log file. The installer's log file will be located in:
   <RIB\_HOME/.retail-installer/rib/log/rib-install-app.<timestamp>.log.
- Each time the installer is run, the user inputs will be recorded in: <RIB\_ HOME/.retail-installer/rib/log/ant.install.properties.<timestamp>. This file should only be used during troubleshooting to verify the exact inputs that were given to the installer. Modifying the file is not recommended, as it is a record of the inputs at the time the installer was run.

# **Resolving Installation Errors**

If an error is encountered while running the installer, the cause of the error must be corrected before making another attempt to run the installer. The installer's log file may contain helpful information for determining the cause of the error. After you have examined the log files, see "Appendix: RIB Installer Common Errors" for a list of commonly encountered errors.

When you are ready to attempt another installation, keep in mind that you may be able to avoid re-entering all your inputs if the previous installation process was far enough along to configure the rib-deployment-env-info.xml. If the installer has already generated the rib-deployment-env-info.xml file, or if you have manually edited the rib-deployment-env-info.xml file, then it is not necessary to re-enter all the inputs in the installer. Verify that the rib-deployment-env-info.xml contains the correct settings, and run the installer with the **Use existing rib-deployment-env-info.xml** option.

# **Post-Installation Tasks**

This chapter describes the steps that must be completed after installation.

### Secure Filesystem

After the RIB installation process is finished, run the following commands from inside rib-home directory.

1. chmod -R go-rwx

This command revokes read, write, and execute permissions from the group and other users. Only the current user will have read, write, and execute permissions.

**2.** find . -name "\*.sh" -exec chmod  $u+rwx \{\} \setminus$ ;

This command grants to the current user read, write, and execute permission for all executable scripts.

- 3. The .profile for the OS user for rib-home should include umask 077 set.
- **4.** Go to the \$DOMAIN\_HOME/servers/\$SERVER\_NAME folder, which is the managed server home where RIB application is installed, and run this command:

chmod -R go-rwx.

This command revokes read, write, and execute permissions from the group and other users. Only the current user will have read, write, and execute permissions.

### **Oracle Application Tasks**

Verify that correct URL's to the RIB Functional Artifacts are configured in the Java EE Applications.

- Functional Artifact URL
- JNDI URL

# **RIB-FUNC Post Deployment**

If an Error 403-Forbidden screen is received upon launching the rib-func-artifact URL, complete the following steps to enable indexing & correct the error.

1. Go to the configuration tab of the rib-func-artifact.war deployment in the WLS console. In the Change Center, click **Lock & Edit**. Check the Index Directory Enabled box, as shown in the following illustration.

😤 🔹 🌈 Oracle Retail Global Business 🌈	ttings for rib-func-artif 🗙 🌈 Oracle Ri	etal Integration Bus	Error 403	3Forbidden	6 Orad	e Retail Global Business	
ORACLE WebLogic Server	Administration Console						
Change Center	🏠 Home Log Out Preferences 🖂 R	tecord Help		9			
View changes and restarts	Home >Summary of Servers >Summary	of Deployments »Summa	ry of Servers >	Summary of D	eployments »Summa	ry of Servers >Summary	of Deployments >Summ
Click the Lock & Edit button to modify, add or delete items in this domain.	Settings for rib-func-artifact.war						
Lock & Edit	Overview Deployment Plan Conf	iguration Security	Targets	Control Tes	ting Monitoring	Notes	
	General Logging Workload D	nstrumentation					
Release Configuration							
Domain Structure	Click the Lock & Edit button in the Cl	hange Center to modify	the settings o	on this page.			
132standalone_rib_domain	Save						
B-Environment Servers							
Clusters	In this page, you define the configura	stion of the application	Seployment de	iscriptor file th	at is associated with	this Web application me	odule.
	Session cookies max age (in seco	unde k					
Machines	Jestinin councerniax age (in seco	nnasy.					
Work Managers Startup & Shutdown Classes	Session Invalidation Interval (in s	seconds):					
Deployments							
<ul> <li>Services</li> <li>Security Realms</li> </ul>	Session Timeout (in seconds):						
E-Interoperability							
E Diamostics	Debug Enabled						
How do I							
<ul> <li>Specify default Web applications</li> </ul>	Maximum in-memory Sessions:						
Deploy Web applications     Test the deployment							
View deployed Web applications	Monitoring Attribute Name:						
<ul> <li>Stop deployed Web applications</li> </ul>		4					
Delete Web applications	Index Directory Enabled						
<ul> <li>Monitor Web applications and servlets</li> <li>Update run-time descriptors</li> </ul>	Index Directory Sort By:						
Operate rearrance descriptors							
System Status	Servlet Reload Check (in seconds	):					
Health of Running Servers							
Faled (0)	Resource Reload Check (in secon	ds):			1		
Critical (0)							1

2. Click Save. Click OK to save deployment plan.

😤 🔹 🌈 Oracle Retal Global Business 🌈 S	ave Deployment Plan As 🗙 🌈 Oracle Re	etal Integration Bus 🌈 Error 403Forbidden	🏀 Oracle Retail Global Business
ORACLE WebLogic Server®	Administration Console		
Change Center	🏠 Home Log Out Preferences 🖂 R	ecord Help	
View changes and restarts	Home >Summary of Deployments >rib-fi	inc-artifact.war	
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Eat Release Configuration Domain Structure		: that need to be stored in a new deployment plan. ent plan file. The path must end with "mit". It is highly	econmended that this file be named 'Plan.umf.
132standalone_utre_domain B-Environment Deployments		drectory, otherwise applications can inadvertently she	
B-Services	Path	/u00/webadmin/product/10.3.3_RIB	/WLS_64/user_projects/domains/132standal
Security Realms 9-Interoperability 9-Diagnostics	Recently Used Paths:	/u00/webadmin/product/10.3.3_RIB/WL5	64/user_projects/domains/132standalone_rb_domai 64/user_projects/domains/132standalone_rb_domai 64/user_projects/domains/132standalone_rb_domai
	Current Location:	mspdev04.us.oracle.com / u00 / webadmi	/ product / 10.3.3_RIB / WLS_64 / user_projects / d
	epp 📫		
How do I	OK Cancel		
Create a deployment plan			
<ul> <li>Update a deployment plan</li> </ul>			
<ul> <li>Specify a deployment plan</li> </ul>			
<ul> <li>Configure an Enterprise application</li> </ul>			
<ul> <li>Start and stop a deployed Enterprise application</li> </ul>			
<ul> <li>Target an Enterprise application to a server</li> </ul>			
Test the modules in an Enterprise application			

**3.** In the Change Center, click **Activate Changes** and relaunch the rib-func URL.

😬 🔻 🌈 Index of /rib-func-artifact/ 🛛 🗙	Coracle Retail Global Business

# Index of /rib-func-artifact/

Name	Last Modified	<u>Size</u>
Parent Directory		
.annotations	07-07-2010 15:36	<dir></dir>
.faces	07-07-2010 15:36	<dir></dir>
.taghandlers	07-07-2010 15:36	<dir></dir>
.taglisteners	07-07-2010 15:36	<dir></dir>
.tlds	07-07-2010 15:36	<dir></dir>
integration	17-05-2011 01:28	<dir></dir>
payload	17-05-2011 01:28	<dir></dir>
.beamarker.dat	25-05-2011 11:31	1
.beamarker.dat	07-07-2010 14:25	1

### **RDMT** Installation

The RIB Diagnostic and Monitoring Tool (RDMT) kit is a collection of command line tools, written in Unix shell script along with supporting Java classes packaged in jar files. There are various tools to address these areas:

- Installation Verification (reports)
- Operations (scanning and monitoring)
- Production (scanning and quick triage)
- Test and Support (scanning and fine grain control)
- AQ JMS support and tools

### Installation Steps

Complete the following steps.

- 1. The RDMT Java support classes require Java 7.0. Installation will perform a check and fail if the path is not correct. Before you begin the installation process, verify that your Java version is correct.
- 2. Determine the location for installation. The recommended location is to put it in rib-home/tools-home directory. There is an empty rdmt subdirectory already there. This is only a placeholder. However, RDMT can be installed under any user in any directory.
- **3.** Download the tar file (Rdmt15.0.0ForAll15.x.xApps\_eng\_ga.tar) and extract it (tar xvf Rdmt15.0.0ForAll15.x.xApps\_eng\_ga.tar).
- **4.** cd to the RDMT directory and execute the configbuilder.sh script supplied with the toolkit (configbuilder.sh).
- **5.** Once executed, it checks if the RDMT has been extracted under rib-home/tools-home directory. If so, it fetches all the necessary configuration information from rib-deployment-env-info.xml present under rib-home/deployment-home/conf directory and it automatically completes the RDMT installation.

If RDMT was extracted under some other directory with rib-home present on the same server, it prompts for the rib-home path. Provide the same and it fetches all the necessary configuration information from rib-deployment-env-info.xml present under specified rib-home/deployment-home/conf directory and it automatically completes the RDMT installation.

If rdmt was extracted in a remote server, it prompts for RIB configuration values during setup. The installation script prompts for the configuration settings needed to run the tools in the toolkit.

- **6.** The installation automatically configures for all the rib-<apps> depending upon the applications in scope as defined in rib-deployment-env-info.xml. In case of remote installation, select Yes to configure additional rib<-apps>. It is recommended that you configure all the rib-apps that have been installed in the RIB Installation.
- **7.** Run the RibConfigReport. This report runs a series of tests to validate the RIB components installed.

## Information to Gather for Installation in Remote Server

Parameters	Setting
RDMT Home Directory	Rib1500ForAll15xxApps/rib-home/tools-home/rdmt/
RDMTLOGS Directory	Rib1500ForAll15xxApps/rib-home/tools-home/rdmt /RDMTLOGS
Temp Files Directory	Rib1500ForAll15xxApps/rib-home/tools-home/rdmt /RDMTLOGS/tmp
RIB App Builder rib-home Directory	/Rib1500ForAll15xxApps/rib-home

The following are the necessary directory parameters.

The following are parameters for the JMS provider.

Parameter	Setting
AQ JMS User ID	<rib aq="" user=""></rib>
AQ JMS Password	<rib aq="" password=""></rib>
JMS Connection URL	jdbc:oracle:thin:@host-name:port:sid

The following are WLS parameters for JMX functions:

Parameter	Setting
WLS/JMX Host	ribhost
WLS Admin Port	8001
WLS Protocol	http or https
WLS Instance Name	rib-rms-server
WLS Instance Port	8002
WLS Protocol	http or https
WLS App Name	rib-rms

Parameter	Setting
WLS User Name	<weblogic user=""></weblogic>
WLS Password	<weblogic password=""></weblogic>

The following are parameters for each hospital (RMS, RWMS, SIM, and others).

Parameter	Setting
User Name	<rms user=""></rms>
Password	<rms password=""></rms>
Database URL	jdbc:oracle:thin:@host-name:port:sid

# **RIB Hospital Administration Tool**

This swing based RIB Hospital Administration tool is replaced by a Web application. See Oracle Retail Integration Bus Hospital Administration documentation for end user instructions and details about .ear file deployment in WebLogic Application Server 12.1.3.

# **Retail Integration Console Installation Tasks**

Retail Integration Console (RIC) is a visualization tool for Retail Integration. It provides full visibility to the Oracle Retail Integration System in a unified view within the business context of the Oracle Retail applications.

### Prerequisites

- RIB must be deployed.
- JMS-Console must be deployed from rib-home/tools-home/.
- rib-home must be accessible to ric-home, in other words both must share the file system.

## **Deployment Steps**

Perform the following procedure to deploy RIC:

- 1. Download RicKernel15.0.0ForAll15.x.xApps\_eng\_ga.zip to a location (for example RIC-APP-BUILDER) on your computer which has your rib-home.
- **2.** Edit the configuration file ric-deployment-env-info.json inside ric-home/conf/ folder.
- **3.** Modify the MiddlewareServerDef and IntegrationProduct with information that is specific to your environment.
  - Set the value of ribEnable property in the configuration file to true.
  - Set the value of ribHome property in the configuration file to point to your rib-home.
  - Set the value of RicAppServer fields to point to the environment where you want to deploy RIC.
  - Set the value of rsbEnable property in the configuration file to true.
  - Set the value of ddiEnable property in the configuration file to true.
- 4. Go to the ric-home/bin/ folder, run the compiler to update the RIC ear as follows:

\$ sh ric-app-compiler.sh -setup-credentials
When prompted by the compiler, enter the user name and password for weblogic
server and RIC admin user, the RIC admin user will be used to log in RIC.

**5.** Run the deployer script to deploy RIC and create the user and group on your weblogic server from the same folder as follows:

\$ sh ric-app-deployer.sh -deploy-ric-app

**Note:** See the section, "Configuration and Deployment," in the *Oracle Retail Integration Console Guide* before attempting installation.

Perform the below steps to add the rib-func-artifact Web-App user to the RIB Weblogic server:

- **1.** During the RIB installation, you will need to enter the following details on the rib-func-artifact Web Application screen:
  - **a.** rib-func-artifact Web-App User = <Username>
  - **b.** rib-func-artifactWeb-App Password = <Password>
  - **c.** rib-func-artifact Web-App Alias = func-artifact\_web-app\_user-name-alias

**Note:** The rib-fun-artifact Web-App Alias field cannot be edited.

2. The user name and password that you entered in the previous step for rib-func-artifactWeb-App should be manually created in the RIB Weblogic server console. To do so,go to RIB WLSConsole > Security Realms > myrealm > Users and Groups, and click New.

**Note:** The user and password should be same as entered in step1.

**3.** Associate the user to rib Admin Group as well.

7

# Integration Gateway Services Installation Tasks

The RIB Integration Gateway Services (IGS) component is an optional sub system and should be installed only after the core RIB components have been installed and verified.

The IGS provides an integration infrastructure for external (third party) system connectivity to the Oracle Retail Integration Bus (RIB) in the form of a tested set of Web service providers and the configurations to connect to RIB. So it should be installed only if there is a requirement to do so.

### Prerequisites

The RIB Integration Gateway Service (IGS) component requires Oracle WebLogic Server 12.1.3 and Java 7.

Before installation, read the *RIB Implementation Guide* for the considerations and planning steps needed for the RIB IGS deployment to WebLogic Server. Also make sure \$JAVA\_HOME is pointing to Java 7.

### Prepare Oracle WebLogic Server

The installation and base configuration of the Oracle WebLogic Server is beyond the scope of this document. Work with the Oracle WebLogic Server administration team to determine the physical and logical placement of the RIB IGS component within the WebLogic Server deployment.

## Create the RIB IGS WebLogic Managed Server

This section describes the process of preparing the Oracle WebLogic Server to install the igs-service.

- 1. IGS ear file should be deployed to a separate managed server.
- **2.** When naming the WebLogic instance, it is recommended (but not required) that the .ear file name is used (without the extension), along with underscore, \_\_server.

For example, if the .ear file name is igs-service.ear, the instance name would be igs-service\_server.

**3.** Add the server start argument for IGS managed server. This can be done from the WLS console, or in the startWebLogic.sh and startManagedWebLogic.sh scripts.

**a.** To edit the scripts, add the following to startWeblogic.sh and startManagedWebLogic.sh under \$DOMAIN\_HOME/bin:

JAVA\_

OPTIONS="-Doracle.retail.soa.enabler.service.provider.engine.ServiceProvide rImplLookupFactory.interceptor=com.oracle.retail.igs.integration.service.Dy namicServiceProviderImpl \${JAVA\_OPTIONS}"

**b.** To edit the server start arguments in the WebLogic console, click igs-server -> Server start as below:

ange Center	A Home Log Out Pre	eferences	Record	Help			Q					
ew changes and restarts	Home > Summary of Se	rvers > kgs	server									
ok the Lock & Edit button to modify, add or	Settings for igs-serve	Settings for igs-server										
lete items in this domain.	Configuration Pro	tocols L	logging De	bug	Monitoring	Control	Deployments	Services	Security	Notes		
Lock & Edt Release Configuration	General Cluster	Services	Keystores	SSL	Federation	Services	Deployment	Migration	Tuning	Overload	Health Monitoring	Server Start
emain Structure	Click the Lock & Edit	tbutton in	the Change C	lenter	to modify the	settings or	this page.					
Domain	Save											
Environment Deployments Services Security Realms Interoperability	Node Manager is a W	ebLogic Se	erver utility th	at you	i can use to st	art, susper	nd, shut down, a	nd restart s	ervers in no	rmal or unes	pected conditions. U	
Diagnostics	Java Home:											The Jay server.
	Java Vendor:											The Jav
	BEA Home:											The BE/ server.
w do L. 🛛	Root Directory:											The dre hosts ti default.
Configure startup arguments for Managed Servers	Class Path:											The da
Start Managed Servers from the Administration Console												Info
Shut down a server instance												
stem Status 😑												
alth of Running Servers												
Faled (0) Critical (0) Overloaded (0) Warning (0)	Arguments: -Xms512m -Xmx Doracle.retai iderImplLooku ation.service	l.soa. pFacto	enabler. ry.inter	serv	ice.prov	ider.en racle.r						The arg

4. Bounce the Admin and managed server before you deploy the IGS.

## Prepare Integration Gateway Services (IGS)

The IGS can be installed under \$RIB\_HOME (rib-home/tools-home/ integration-bus-gateway-services) as described below.

#### Running IGS under \$RIB\_HOME

To run IGS under \$RIB\_HOME, complete the following steps:

1. Download the IntegrationGatewayService15.0.0ForAll15.0.0Apps\_eng\_ga.tar and untar it under rib-home/tools-home.

```
cd rib-home/tools-home/
IntegrationGatewayService15.0.0ForAll15.0.0Apps_eng_ga.tar
```

 Copy aqapi<version>.jar and ojdbc7.jar from rib-home/integration-lib/third-party/oracle/db/12.1.0.2 to \$WL\_ HOME/wlserver/server/lib. Bounce WebLogic servers after copying these jars.

**Note:** The above jars only need to be copied if IGS is hosted in a different domain than the RIB domain. If IGS and RIB share the domain, the jars are already copied when RIB is installed.

- **3.** Go to rib-home/tools-home/integration-bus-gateway-services/conf and edit the IgsConfig.properties as follows.
  - Change the value of WlsUrl to point to the WebLogic server where IGS is going to be deployed. The port in the WlsUrl should be the administration port.
  - Change the value of WlsTarget to the instance name where IGS is going to be deployed (for example, igs-service\_wls\_instance).
- **4.** Go to \$IGS\_HOME integration-bus-gateway-services/bin. Run the igs-install.sh. Running this script does the following:
  - Verifies whether the attempted IGS installation is from within rib-home or in standalone mode; preconfiguration cleanup is based on this mode.
  - Asks the user for the WebLogic user name and password and saves it in a secure credential store.

**Note:** The WebLogic user name used here should be set up with the administrator role.

- Prepares the igs-service.ear, based on the number of channels and the number of configured AQ JMS servers.
- Configures the WebLogic server with the AQ JMS server information listed in the rib-deployment-env-info.xml.
- Deploys the igs-service-ear to the WebLogic server.

All of the items in Step 4 also can be performed separately, as follows:

1. Go to rib-home/tools-home/integration-bus-gateway-services/bin. Run the igs-admin.sh -setup-igs to set up the environment. Running this script verifies whether the attempted IGS installation is from within the rib-home or in standalone mode; the preconfiguration cleanup is based on this mode.

sh igs-admin.sh -setup-igs

**2.** Go to rib-home/tools-home/integration-bus-gateway-services/bin. Run the igs-admin.sh -setup-security-credential to set up the WebLogic user name and password information in a secure credential store.

sh igs-admin.sh -setup-security-credential

**3.** Go to \$IGS\_HOME /integration-bus-gateway-services/bin. Run the igs-admin.sh -prepare to prepare the igs-service.ear, based on the number of channels and configured AQ JMS.

sh igs-admin.sh -prepare

**4.** Go to rib-home/tools-home/integration-bus-gateway-services/bin. Run the igsadmin.sh -configure to configure the WebLogic server with the AQ JMS server information listed in the rib-deployment-env-info.xml.

sh igs-admin.sh -configure

**5.** Go to rib-home/tools-home/integration-bus-gateway-services/bin. Run the igs-admin.sh -deploy to deploy the igs-service.ear to the WebLogic server.

sh igs-admin.sh -deploy

**6.** If the igs-service.ear must be undeployed, run therib-home/tools-home/integration-bus-gateway-services/bin/igs-admin.sh -undeploy to undeploy an igs-service.ear.

sh igs-admin.sh -undeploy

**Note:** The log files are located here: **\$IGS\_HOME**/ integration-bus-gateway-services/log

If any changes are made to the rib-deployment-env-info.xml or the rib-<app>-adapters.xml, the -prepare, -configure, and -deploy steps, must be executed.

### Verify the IGS Application Installation Using the Administration Console

To verify the IGS installations using the Oracle WebLogic Administration Console, complete the following steps:

**Note:** The Test Client link is visible when the server is in Development mode.

- 1. Navigate to the Deployments page.
- 2. On the Summary of Deployments page, locate the igs-service.
- **3.** To expand the tree, click the + beside the ig-service.
- 4. Locate the Web Services section.
- **5.** Click any Web service (for example, ASNInPublishingService) to move to settings for ASNInPublishingService page.
- **6.** Select the Testing tab.
- **7.** To expand the tree, click the + beside the service name.
- **8.** Locate the Test Client link. Move to the WebLogic Test Client page.
- 9. Select the Ping operation. Enter test data in the string arg0: text box. Click Ping.
- **10.** The test page will include the request message and the response message.

### Secure IGS Web Services Using the Administration Console

IGS Web services can be secured in two ways. One approach is simple user name and password authentication. For the other approach, passwords are encrypted with certificates.

The following describes both approaches for server-side and client-side setup.

**Note:** The various policy files that can be used to secure Web services are listed in the ws-policy tab of the Web service in the WebLogic Server Administration Console.

#### Server-side Setup for User Name and Password Authentication

This section describes the two-step process required for securing Web services on the server side. These steps are performed using the Oracle WebLogic Server Administration Console.

#### Attach Policy File to the Web Service

The usernametoken.xml contains the policy used by the Web service and is found in the META\_INF/policies folder in the .ear file. Complete the following steps to attach the policy file to a Web service.

**1.** In the Summary of Deployments screen, click the application. In the illustration below, the application is igs-service.

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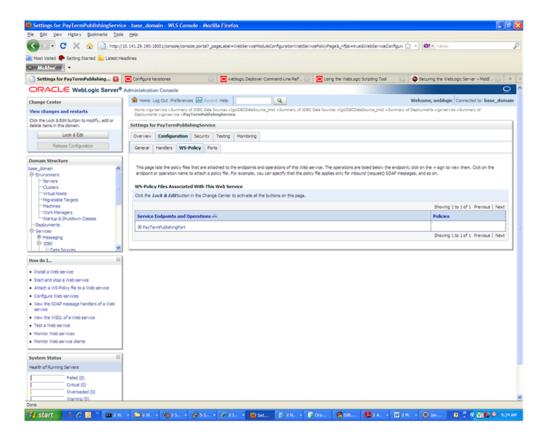
**2.** An overview page is displayed, including a list of modules and components installed as part of the application.

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	XOrderPublishingBean			£28
	CXStorePublishingBean			6.8
	TsPublishingBean			E38
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**3.** In the Web service list, click the service for which you want to enable security. The following screen is displayed to provide an overview of the Web service.

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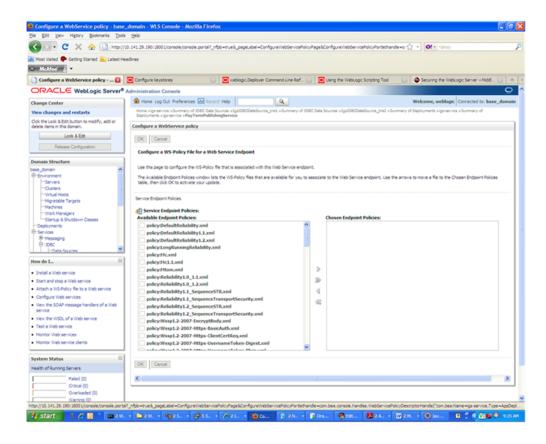
**4.** On this overview screen, click the Configuration tab. Click the WS-Policy tab. The Web service port is shown under Service Endpoints and Operations.



**5.** Click the plus sign next to the port name. The Web service operations are displayed.

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**6.** You can secure all the Web service operations at once or select only the operations you want to secure. Click the name of the port. On the Configure a Web Service policy screen, you can attach the policy file to the Web service. Select WebLogic and click the **Next** button.



**7.** From the Available Endpoint Policies list, select policy:usernametoken.xml. Click the right arrow to move it to the drop down list below Chosen Endpoint Policies. Click **OK**. The Save Deployment Plan Assistant screen is displayed.

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System Status 🖂	ī.					
fealth of Running Servers						
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**8.** At the bottom of the Save Deployment Plan Assistant screen, click **OK**. The following screen is displayed, including status messages near the top.

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Ordinaria     Print.       Ordinaria     Printaria       Ordinaria     Printaria       Ordinaria     Printaria       Ordinaria     Printaria	Work Managers	Deployment Name:	los-service	Name of the Web servic	e as it appears in the Deployments table. More
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	Attach a WS-Policy file to a Web service				
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**9.** Click **Activate Changes**. The following screen is displayed.

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🗅 McAfeet 👔 🗸						
Settings for PayTermPublishing 🔯	Configure keystores	💽 🔄 weblogic.Deployer Command-Line Ref 💽 🦉	Using the WebLogic Scripting Tool 💿 🐵 Securing the WebLogic Server = Midd 💽 +			
ORACLE WebLogic Server®	Administration Console		0			
Change Center	🏠 Home Log Out Preferences 🖂 F	lecord Help	Welcome, weblogic Connected to: base_domain			
View changes and restarts	Home >igs-service > Summary of 208C 0 Deployments >igs-service > PayTermPa	hata Sources > Igs208CDataSource_jms1 > Summary of 308C Data	a Sources >3ps208CDetxSource_jms2 > Summary of Deployments >igsrservice > Summary of			
Click the Lock & Edit button to modify, add or	Nessages	prisming service				
delete items in this domain.	Al changes have been activated. I	lo restarts are necessary.				
Lock & Edt	Settings for PayTermPublishingSet					
Release Configuration						
Domain Structure	Overview Configuration Securit	y Testing Monitoring				
base domain						
B-Environment	A Web service is a set of functions pa uses 20% metadata apontations to a	schaged into a single entity that is available to other systems beofy the shape and behavior of the Web service.	on a network. It is implemented using a Java Web Service (JWS) file, which is a Java class that			
Servers Custers	This page displays the general configuration of a deployed Web service, such as the name that appears in the Deployments table of the Administration Console, the name of the WAR or EX8 JAR					
-Virtual Hosts	file in which it is packaged, and name	tration of a deployed web service, such as the name that ap that appears in the WSOL that describes the Web service.	pears in the Deployments table of the Administration Console, the name of the WAR or E20 JAR.			
Wachines Work Managers	Deployment Name:	igs-service	Name of the Web service as it appears in the Deployments table. More			
Startup & Shutdown Classes			brito			
Deployments	Hodule Name:	igs-service-egb.jar	Name of the Web service archive file, either a WAR file or E38 JAR file			
Services     B Messaging			depending on the Web service features it implements. More Info			
8-xec	Service Name:	PayTermPublishingService	Name of this Web service. This name appears in the WSDL file that defines			
Data Sources			the public contract of this Web service. More Info			
How do L. 🛛						
<ul> <li>Install a Web service</li> </ul>						
<ul> <li>Start and stop a Web service</li> </ul>						
<ul> <li>Attach a WS-Policy file to a Web service</li> </ul>						
Configure Web services						
<ul> <li>View the SOAP message handlers of a Web service</li> </ul>						
<ul> <li>View the WSDL of a Web service</li> </ul>						
Test a Web service						
<ul> <li>Monitor Web services</li> </ul>						
<ul> <li>Monitor Web service clients</li> </ul>						
System Status						
Health of Running Servers						
Faled (0)						
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Warning (0)						

**10.** Under the Testing tab, on the Web Service page, click the WSDL to view the details of the policy just added to the Web service. The WSDL contains information similar to the following.

```
<?xml version='1.0' encoding='UTF-8'?>
<definitions
xmlns:tns="http://www.oracle.com/retail/igs/integration/services/PayTermPublish
ingService/v1"
xmlns:ns1="http://www.oracle.com/retail/integration/bus/gateway/services/Busine
ssObjectId/v1"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:ns2="http://www.oracle.com/retail/integration/services/exception/v1"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns="http://schemas.xmlsoap.org/wsdl/" name="PayTermPublishingService"
targetNamespace="http://www.oracle.com/retail/igs/integration/services/PayTermP
ublishingService/v1"
xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:wssutil="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecuri
ty-utility-1.0.xsd">
<wsp:UsingPolicy wssutil:Required="true" />
<wsp:Policy wssutil:Id="usernametoken">
<ns0:SupportingTokens
xmlns:ns0="http://docs.oasis-open.org/ws-sx/ws-securitypolicy/200512">
<wsp:Policy>
<ns0:UsernameToken
ns0:IncludeToken="http://docs.oasis-open.org/ws-sx/ws-securitypolicy/200512/Inc
ludeToken/AlwaysToRecipient">
<wsp:Policv>
<ns0:WssUsernameToken10/>
</wsp:Policy>
</ns0:UsernameToken>
</wsp:Policy>
</ns0:SupportingTokens>
</wsp:Policy>
```

#### **Create Roles and Users**

This section describes how to add roles and users who can access the Web services. The first step is to add users to the security realm, as described below.

1. In the Domain Structure window of the Oracle WebLogic Services Administration Console, click the Security Realms link.



**2.** The Summary of Security Realms screen is displayed, including the name of the default realm.

Summary of Security Realms - base_do	omain - WLS Console - Mozilla	a Firefox				
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McAfee .						
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ORACLE WebLogic Server®	Administration Console			_		C
Change Center	A Home Log Out Preferences	Record Help		Q	w	elcome, weblogic Connected to: base_doma
View changes and restarts	Home > igs-service > Roles > Summ	nary of Deployments >bea	naveb >Roles >	Policies >Roles >Summary of Deployment	ts >igs-service >Summary of Security Realms	
Click the Lock & Edit button to modify, add or delete items in this domain.	Summary of Security Realms	\$				
Lock & Edt Release Configuration	A security realm is a container security realms in a WebLogic !				and security providersthat are used to prot	ect WebLogic resources. You can have multiple
Domain Structure	This Security Realms page lists	seach security realm that	t has been conf	fgured in this WebLogic Server domain.	Click the name of the realm to explore and o	onfigure that realm.
Orielan Structure     Outa Sources     Outa Sources     Outa Source Roctories     Persistent Stores     Foreign 3/02 Providers	© Customize this table Realms (Filtered - More Co Cick the Lock & Editbutton in		ctivate all the l	buttons on this page.		
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-Work Contexts -XML Registries	New Delete					Showing 1 to 1 of 1 Previous   Next
XML Entity Caches	🗌 Name 🙃			Default Realm		
	myreaim			true		
-Fie T3	New Delete					Showing 1 to 1 of 1 Previous   Next
-JTA Security Realms						
How do L.						
Configure new security realms						
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System Status						
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OK (3)						
WebLogic Server Version: 33.3.3.0 Copyright (b 1996.2003, Oracle and/or its affiliates. All in Oracle is a registered trademark of Oracle Corporation	rights reserved. and/or its affliates. Other names may b	be trademarks of their resp	ective owners.			
Done						
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3. Click the name of the default realm. The settings for the realm are displayed.

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Settings for myrealm - base_do 🚺	http://10.141.29.1.ishingService7W	SOL 🖂 🔶			
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w changes and restarts	Home >Roles >Summary of Deployment	ts >beansweb >Roles >Pol	ies >Roles >Summary of Deploy	nents >igerservice >Summary of Security Realms >myrealm	
the Lock & Edit button to modify, add or the items in this domain.	Settings for myrealm				
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Release Configuration	General RDBMS Security Store	User Lockout Perform	ance		
ain Structure	Clok the Lock & Editbutton in the	Change Center to modify t	he settings on this page.		
domain A	Save				
eployments envices Privessaging P-108C Data Sources Nuto Data Sources	Use this page to configure the gene Note: If you are implementing sec not available and the securi	urity using JACC (Java Au		ters as defined in JSR 115), you must use the DO Only security model. Instan Console are disabled.	Other WebLogic Server models
Data Source Factories	Name:	myreaim		The name of this security realm. More In	fo
-Foreign 3NDL Providers -Coherence Clusters -Work Contexts	E Security Hodel Default:	DD O	nly 👻	Specifies the default security model for W secured by this security realm. You can ov deployment. More Info	
r do L. E anage security for Web applications and 26	Combined Role Happing	Inabled		Determines how the role mappings in the E application, and E3B containers interact. T applications and E3Bs that use the Advanc roles from deployment descriptors. More	his setting is valid only for Web red security model and that initia
t the default security model legate MBean authorization to the realm	Use Authorization Provid	ers to Protect JHX Acc	ess	Configures the WebLogic Server MBean se Authorization providers to determine whe access an MBean attribute or invoke an M	ther a 34X client has permission
tem Status E th of Running Servers	Save				
Faled (0)	Click the Lock & Editbutton in the	Change Center to modify t	he settings on this page.		
Critical (0) Overloaded (0)					
Warning (0) OK (3)					

**4.** On the Settings screen, click the Users and Groups tab.

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deter terms in this donan.       Look & Bdt			»Roles »Policies »Roles »Summary of Deployments »igs-service »Summary of Secu	rby Realms >myrealm >Users and Groups
Lock & Ed:     Configuration     Users and Groups     Release Configuration     Mage state       Domain Structure Beau domain Structure Services     This page displays information about each user that hab been configured in this security realin.       Domain Structure Beau domain Services     This page displays information about each user that hab been configured in this security realin.       Demain Structure Beau domain Services     This page displays information about each user that hab been configured in this security realin.       Demain Structure Beau domain Services     Demain Structure Beau domain Services     Demain Services Services       Demain Structure Services     Demain Services Description     Description Services       Demain Structure Services     Description Description Services     Default/uservices/ Description Services       Not down Services Description Services     Description Description Services     Default/uservices/ Def	belete items in this domain.	Settings for myrealm		
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Demain Structure       Demain Structure         Demain Structure       Demain Structure         Berginsen       Environment         Demain Structure       Demain Structure         Berginsen       Environment         Demain Structure       Demain Structure         Berginsen       Demain Structure         Berginsen       Demain Structure         Demain Structure       Demain Structure         Demain Structure       Demain Structure         Demain Structure       Demain Structure         Demain Structure       Default/Livent Starts         Demain Structure       Default/Livent Starts         Demain Structure       Default/Livent Starts         Default/Livent Starts       De		Users Groups		
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State Sources     Provider       Opsignments     Provider       Opsignments     Provider       Opsignments     Provider       Obsta Sources     Provider       Obsta Source Factories     Provider       Oracle spotsons     Provider	Domain Structure	This page displays information about each	user that has been configured in this security realm.	
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Services				
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Health of Running Servers Paled (3) Paled (3)				

**5.** In the Users and Groups tab, click the Users tab. At the bottom of the Users tab, click **New**. The Create a New User screen is displayed.

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🚵 Most Visited 🌩 Getting Started 脑 Latest He	adires					
<ul> <li>McMec' // •</li> </ul>						
🗋 Create a New User - base_domai 🔯	http://10.141.29.1.ishingService7WSD					-
ORACLE WebLogic Server®	Administration Console					õ
Change Center	🏠 Home Log Out Preferences 🔛 Re	cord Help	Q		Welcome, weblogic Come	cted to: base_domain
View changes and restarts	Home > Summary of Deployments > beans	ieb >Roles >Policies >Roles >Summa	y of Deployments »igs-service »	Summary of Security Realms > myrealm	>Users and Groups	
Click the Lock & Edit button to modify, add or delete items in this domain.	Create a New User					
Lock & Edt	OK Cancel					
Release Configuration	User Properties					
Domain Structure	The following properties will be used to	identify your new User.				
base_domain	* Indicates required fields					
B-Environment	What would you like to name your new U	ser?				
B-Services	* Name:					
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Data Sources	How would you like to describe the new l	Jser?				
Data Source Factories	Description:	IGS web service user				
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**6.** In the Create a New User screen, enter a user name and password. Leave the default value for Provider. Click **OK** to save the information. The new user is added to the list of users.

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**Note:** You can add roles from the Roles and Policies tab of the security realm or through the Security tab of the Web service. The following instructions are for creating a role through the Security tab of the Web service.

7. Navigate to the Security tab of the Web service. Click the Roles tab.

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**8.** In the Roles tab, click **New**. The Create a Web Service Module role screen is displayed.

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®-Messaging III-XIBC	- name:	igsrole
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**9.** In the Create a Web Service Module Role screen, enter the role name in the Name field (for example, rmsrole). Leave the default value in the Provider Name field. Click **OK**. The new role is displayed in the Roles tab of the Web service.

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**10.** To add the user to the role, click the name of the new role in the Roles tab. The Edit Web Service Module Scoped Roles screen is displayed.

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**11.** In the Edit Web Service Module Scoped Roles screen, click **Add Conditions**. The "Choose a Predicate" option is displayed.

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**12.** From the Predicate List, select User. Click **Next**. The Edit Arguments argument is displayed.

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**13.** In the User Argument Name field, enter the user name created in the security realm. Click **Add**. The name will move down to the box below the Add button. Click **Finish**. The following screen is displayed.

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- **14.** Click **Save**. The same screen is displayed with this message near the top: "Changes saved successfully."
- **15.** Return the Security tab of the Web service and click the Policies tab.

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**16.** On the Policies tab, click **Add Conditions**. The "Choose a Predicate" option is displayed.

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**17.** From the Predicate List, select Role. Click **Next**. The Edit Arguments option is displayed.

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8-Services	Add one or more roles to this condition. If you add multiple roles, the condition evaluates as true if the user is in AVV of the roles.
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-Foreign 31DL Providers	Renove
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Overloaded (0)	
Warning (0) OK (3)	
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- **18.** In the Role Argument Name field, enter the role name created earlier. Click **Add**. The role name will move down to the box below the Add button. Click **Finish** to return to the Policy Conditions screen.
- **19.** Click **Save**. The Policy Conditions screen is displayed with this message near the top: "Changes saved successfully."

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WebLogic Server Version: 10.3.3.0 Copyright © 1996.2010, Oracle and/or its affiliates. All rights reserved.										
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#### Client-side Setup for User Name and Password Authentication

The following is sample code for calling a secure IGS Web service.

**Note:** The following is sample code for invoking the PayTermPublishingService service. When you generate Java consumer for a Web service, the generated jar file contains classes specific to that Web service. Use the appropriate classes in the client code. Service namespace and WSDL location also should be changed accordingly.

```
package com.oracle.retail.rms.client;
import java.net.URL;
import java.util.ArrayList;
import java.util.List;
import java.util.Map;
import javax.xml.namespace.QName;
import javax.xml.ws.BindingProvider;
import
com.oracle.retail.igs.integration.services.paytermpublishingservice.v1.PayTermPubl
ishingPortType;
import
com.oracle.retail.igs.integration.services.paytermpublishingservice.v1.PayTermPubl
ishingService;
import
```

```
com.oracle.retail.igs.integration.services.paytermpublishingservice.v1.PublishPayT
ermCreateUsingPayTermDesc;
import
com.oracle.retail.igs.integration.services.paytermpublishingservice.v1.PublishPayT
ermCreateUsingPayTermDescResponse;
import com.oracle.retail.integration.base.bo.paytermdesc.v1.PayTermDesc;
import weblogic.wsee.security.unt.ClientUNTCredentialProvider;
import weblogic.xml.crypto.wss.WSSecurityContext;
import weblogic.xml.crypto.wss.provider.CredentialProvider;
import junit.framework.TestCase;
public class PayTermPublishingClient extends TestCase{
       public void testCreatePayTermDesc() {
              try{
                      //qName is namespace of the service
OName gName = new
QName("http://www.oracle.com/retail/igs/integration/services/PayTermPublishingServ
ice/v1", " PayTermPublishingService");
                      // url is the URL of the WSDL of the web service
URL url = new
URL("http://ribhost.example.com:18030/PayTermPublishingBean/PayTermPublishingServi
ce?WSDL");
                     //create an instance of the web service
                     PayTermPublishingServiceservice = new
PayTermPublishingService (url,qName);
                     PayTermPublishingPortType =
service.getPayTermPublishingPort ();
                     //set the security credentials in the service context
                    List credProviders = new ArrayList();
CredentialProvider cp = new ClientUNTCredentialProvider ("<rms user>", "<rms
password>");
                    credProviders.add(cp);
Map<String, Object> rc =
                                   ((BindingProvider)port).getRequestContext();
                    rc.put(WSSecurityContext.CREDENTIAL_PROVIDER_LIST,
credProviders);
                     //populate the service method input object
                                  PayTermDesc payTermDesc = new PayTermDesc();
              payTermDesc.setTerms("terms");
              PublishPayTermCreateUsingPayTermDesc payTermCreateDesc = new
PublishPayTermCreateUsingPayTermDesc();
              payTermCreateDesc.setPayTermDesc(payTermDesc);
                    //call the web service
                              PublishPayTermCreateUsingPayTermDescResponse
response = port.publishPayTermCreateUsingPayTermDesc(payTermCreateDesc,"1");
                   System.out.println("response="+response);
           }catch(Exception e) {
                   e.printStackTrace();
            }
     }
}
```

# Server-side Setup for Encrypted User Name and Password Token Authentication

WebLogic provides predefined policy files for securing Web services. This section describes the process required to secure a Web service where user name and password are encrypted and signed. Below are the steps to secure the Web service.

 Follow the steps to attach the policy file to the Web service described in the section, "Attach Policy File to the Web Service," with this exception: In Step 7, select "policy:Wssp1.2-2007-Wss1.1-UsernameToken-Plain-X509-Basic256.xml" (instead of policy:usernametoken.xml). Follow the remaining steps as shown.

After attaching the policy file, the header for the WSDL of the Web service contains the following.

```
<wsp:UsingPolicy wssutil:Required="true"/>
<wsp:Policy
wssutil:Id="Wssp1.2-2007-Wss1.0-UsernameToken-Plain-X509-Basic256.xml">
<ns1:AsymmetricBinding
xmlns:ns1="http://docs.oasis-open.org/ws-sx/ws-securitypolicy/200702">
<wsp:Policv>
<ns1:InitiatorToken>
<wsp:Policy>
<ns1:X509Token
ns1:IncludeToken="http://docs.oasis-open.org/ws-sx/ws-securitypolicy/200702/Inc
ludeToken/AlwaysToRecipient">
<wsp:Policv>
<ns1:WssX509V3Token10/>
</wsp:Policy>
</ns1:X509Token>
</wsp:Policy>
</nsl:InitiatorToken>
<ns1:RecipientToken>
<wsp:Policy>
<ns1:X509Token
ns1:IncludeToken="http://docs.oasis-open.org/ws-sx/ws-securitypolicy/200702/Inc
ludeToken/Never">
<wsp:Policy>
<ns1:WssX509V3Token10/>
</wsp:Policy>
</nsl:X509Token>
</wsp:Policy>
</ns1:RecipientToken>
<ns1:AlgorithmSuite>
<wsp:Policy>
<ns1:Basic256/>
</wsp:Policv>
</ns1:AlgorithmSuite>
<ns1:Layout>
<wsp:Policy>
<ns1:Lax/>
</wsp:Policy>
</ns1:Layout>
<ns1:IncludeTimestamp/>
<ns1:ProtectTokens/>
<ns1:OnlySignEntireHeadersAndBody/>
</wsp:Policy>
</ns1:AsymmetricBinding>
<ns2:SignedEncryptedSupportingTokens
xmlns:ns2="http://docs.oasis-open.org/ws-sx/ws-securitypolicy/200702">
<wsp:Policy>
<ns2:UsernameToken
```

```
ns2:IncludeToken="http://docs.oasis-open.org/ws-sx/ws-securitypolicy/200702/Inc
ludeToken/AlwaysToRecipient">
<wsp:Policy>
<ns2:WssUsernameToken10/>
</wsp:Policy>
</ns2:UsernameToken>
</wsp:Policy>
</ns2:SignedEncryptedSupportingTokens>
<ns3:Wss10
xmlns:ns3="http://docs.oasis-open.org/ws-sx/ws-securitypolicy/200702">
<wsp:Policy>
<ns3:MustSupportRefKeyIdentifier/>
<ns3:MustSupportRefIssuerSerial/>
</wsp:Policy>
</ns3:Wss10>
</wsp:Policy>
```

- **2.** The key combination used by the client to sign the message is a valid one for the server. The client certificate must be signed with a certificate authority that is trusted by the server.
- **3.** WebLogic instances include a demo CA. The certificate and key for it is in \$WL\_HOME/Middleware/wlserver/server/lib/CertGenCA.der and CertGenCAKey.der. The key does not appear to change between WebLogic installations and is trusted by the default DemoTrust store. For this reason, the DemoTrust store must never be enabled in a production environment. Otherwise anybody can become "trusted" fairly easily.
- **4.** WebLogic CertGen command can be used for generating keys of the correct key length and signing them with the demo CA noted above. A client certification/key pair is required to sign the outgoing message and server certificate to encrypt the critical information.

```
java -classpath $WL_HOME/Middleware/wlserver/server/lib/weblogic.jar
utils.CertGen -certfile ClientCert -keyfile ClientKey -keyfilepass ClientKey
-cn <rms user>
```

The above command generates the following files.

- ClientCert.der
- ClientCert.pem
- ClientKey.der
- ClientKey.pem

The user name is *<rms user>*. Replace it with the user name of the user who will access the Web service.

5. The command below generates the four files that follow it.

```
java -classpath $WL_HOME/Middleware/wlserver/server/lib/weblogic.jar
utils.CertGen -certfile ServerCert -keyfile ServerKey -keyfilepass ServerKey
-cn <rms user>
```

- ServerCert.der
- ServerCert.pem
- ServerKey.der
- ServerKey.pem

The user name is *<rms user>*. Replace it with user name of the user who will access the Web service

6. Using the following commands, import the files into key stores.

java -classpath \$WL\_HOME/Middleware/wlserver/server/lib/weblogic.jar utils.ImportPrivateKey -certfile ClientCert.der -keyfile ClientKey.der -keyfilepass <Client Key Password> -keystore ClientIdentity.jks -storepass <Client Key Password> -alias identity - keypass <Client Key Password>

java -classpath \$WL\_HOME/Middleware/wlserver/server/lib/weblogic.jar utils.ImportPrivateKey -certfile ServerCert.der -keyfile ServerKey.der -keyfilepass <Server Key Password> -keystore ServerIdentity.jks -storepass <Server Key Password> -alias identity - keypass <Server Key Password>

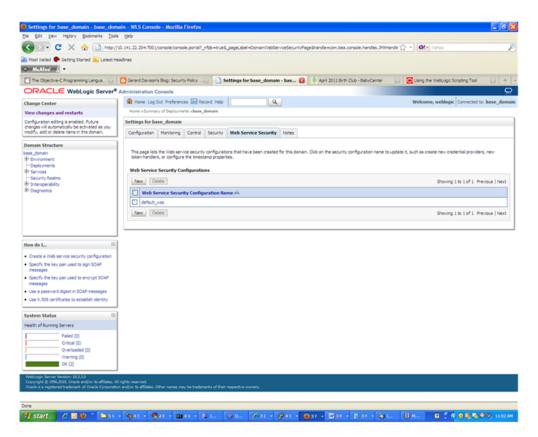
**7.** Using the script in Appendix: configWss.py, configure the WebLogic server to use the key. Copy the script and save it in the location from which it will run.

Java -classpath \$WL\_HOME/Middleware/wlserver/server/lib/weblogic.jar weblogic.WLST configWss.py <weblogicuser> <weblogicpassword> <weblogichost> <weblogic admin port> ServerIdentity.jks ServerKey identity ServerKey

#### For example:

Java -classpath \$WL\_HOME/Middleware/wlserver/server/lib/weblogic.jar weblogic.WLST configWss.py <weblogic user> <weblogic password> localhost 7001/home/wls/ServerIdentity.jks ServerKey identity ServerKey

**8.** In the WebLogic logic console, check the Web Service Security tab to verify that the command ran properly. Note that the default\_www configuration is used for all Web services unless otherwise indicated.



- **9.** After the certificate setup is completed for the Web service, follow the steps in the "Create Roles and Users" section to create a user in WebLogic to access the Web service.
- **10.** Restart the server. Create a client to invoke the Web service.

#### Client-side Setup for Encrypted User Name and Password Token Authentication

Below is sample code for calling a Web service that is secured using the policy file, policy:Wssp1.2-2007-Wss1.1-UsernameToken-Plain-X509-Basic256.xm.:

```
package com.test;
import java.net.URL;
import java.security.cert.X509Certificate;
import java.util.ArrayList;
import java.util.List;
import java.util.Map;
import javax.xml.namespace.QName;
import javax.xml.ws.BindingProvider;
import javax.xml.ws.WebServiceRef;
import
com.oracle.retail.igs.integration.services.paytermpublishingservice.v1.PayTermPubl
ishingPortType;
import
com.oracle.retail.igs.integration.services.paytermpublishingservice.v1.PayTermPubl
ishingService;
import
com.oracle.retail.igs.integration.services.paytermpublishingservice.v1.PublishPayT
ermCreateUsingPayTermDesc;
import
com.oracle.retail.igs.integration.services.paytermpublishingservice.v1.PublishPayT
ermCreateUsingPayTermDescResponse;
import com.oracle.retail.integration.base.bo.paytermdesc.v1.PayTermDesc;
import weblogic.security.SSL.TrustManager;
import weblogic.wsee.security.bst.ClientBSTCredentialProvider;
import weblogic.wsee.security.unt.ClientUNTCredentialProvider;
import weblogic.wsee.security.util.CertUtils;
import weblogic.xml.crypto.wss.WSSecurityContext;
import weblogic.xml.crypto.wss.provider.CredentialProvider;
public class Client {
public static void main(String args[]) {
trv{
//qName is namespace of the service
QName qName = new
QName("http://www.oracle.com/retail/igs/integration/services/PayTermPublishingServ
ice/v1", " PayTermPublishingService");
// url is the URL of the WSDL of the web service
URL url = new
URL("http://<host>:<port>/PayTermPublishingBean/PayTermPublishingService?WSDL");
//create an instance of the web service
PayTermPublishingServiceservice = new PayTermPublishingService(url,qName);
PayTermPublishingPortType = service.getPayTermPublishingPort ();
PayTermDesc payTermDesc = new PayTermDesc();
payTermDesc.setTerms("terms");
PublishPayTermCreateUsingPayTermDesc payTermCreateDesc = new
```

```
PublishPayTermCreateUsingPayTermDesc();
payTermCreateDesc.setPayTermDesc(payTermDesc);
String serverCertFile = "D:/head/retail-soa-enabler/dist/client/ServerCert.der";
String clientKeyStore =
"D:/head/retail-soa-enabler/dist/client/ClientIdentity.jks";
String clientKeyStorePass = "ClientKey";
String clientKeyAlias = "identity";
String clientKeyPass = "ClientKey";
List credProviders = new ArrayList();
ClientUNTCredentialProvider unt = new "<rms user>", "<rms password>";
credProviders.add(unt);
final X509Certificate serverCert =
(X509Certificate)CertUtils.getCertificate(serverCertFile);
serverCert.checkValidity();
CredentialProvider cp = new ClientBSTCredentialProvider(clientKeyStore,
clientKeyStorePass,clientKeyAlias, clientKeyPass, "JKS", serverCert);
credProviders.add(cp);
Map requestContext = ((BindingProvider)port).getRequestContext();
requestContext.put(WSSecurityContext.CREDENTIAL_PROVIDER_LIST, credProviders);
requestContext.put(WSSecurityContext.TRUST_MANAGER, new TrustManager() {
public boolean certificateCallback(X509Certificate[] chain,int validateErr) {
boolean result = chain[0].equals(serverCert);
return result;
}
});
PublishPayTermCreateUsingPayTermDescResponse response =
port.publishPayTermCreateUsingPayTermDesc(payTermCreateDesc,"1");
System.out.println("response="+response);
}catch(Exception e) {
e.printStackTrace();
}
}
}
```

# 8

# **RIB Security**

This chapter explains how to securely configure Oracle Retail Integration Bus applications and related tools.

# Security in RIB Application Builder

RIB Application Builder is a tool for building and deploying RIB applications on the WebLogic server. The rib-deployment-env-info.xml file is the single source of all values used in the RIB App Builder tools. It is the only (or should be the only) file that requires editing. The RIB Installer gathers the appropriate values from the user, constructs the file, and invokes the appropriate tools.

This file contains all the configuration information required for building RIB applications. Below is a sample for AQ configuration details:

```
<aq-jms-server jms-server-id="jms1">
<jms-server-home>linux1@linux1:/home/oracle/oracle/product/12.1.0.2/db_
1</jms-server-home>
<jms-url>jdbc:oracle:thin:@linux1:1521:ora12c</jms-url>
<jms-port>1521</jms-port>
<jms-user-alias>jms1_user-name-alias</jms-user-alias>
</aq-jms-server>
```

This file does not contain the user name and password for connecting to the application server or databases. Rather, it contains the alias for each user name/password combination. This alias refers to the user name/password stored in a secured wallet file. The wallet file is created when the user runs the application assembly tool during the RIB application building process.

The syntax for the application assembly command is as follows:

./rib-app-compiler.sh -setup-security-credential

The argument, setup-security-credential, must be used when running the rib-app-compiler for the first time. It prompts the user to enter user names and passwords required to install RIB components. It stores details as credentials in a wallet file inside the rib-home/deployment-home/conf/security/ directory. The credentials are retrieved and used by the deployer when installing RIB components.

Only the operating system user who created the wallet file with the RIB application assembly tool has read and write access to the file. Other users do not have permission to access the file. The file permissions are set up during the post-deployment phase for RIB applications.

See the "Application Builder" chapter in the *Oracle Retail Integration Bus Operations Guide* for details about the RIB Application Builder.

**Note:** Users also can change user names and passwords for RIB applications after deploying them. Refer to the section, "setup-security-credential," under "RIB App Builder Tools" in the "Application Builder" chapter in *Oracle Retail Integration Bus Operations Guide* for how to change RIB user names and passwords after deployment.

# Security in RIB Deployment Configuration File Editor

The RIB Deployment Configuration File Editor is an application used to configure the rib-deployment-env-info.xml file, following installation. It provides a user interface for adding, removing, and rearranging the elements of the RIB configuration.

This tool has fields for entering user names and passwords required for connecting to application server and databases. Values entered in the password field in the tool are displayed as a series of asterisks (one for each character). The values entered in this field are stored in the secured wallet file in the

rib-home/deployement-home/conf/security/directory.

For information about the RIB Deployment Configuration File Editor, see the section, "RIB Deployment Configuration File Editor," in the "Application Builder" chapter in the *Oracle Retail Integration Bus Operations Guide*.

# Security during RIB Deployment Process

Users can run the RIB application assembly tool to build RIB application .ear files. The generated .ear files contain deployment descriptors for data sources used by RIB runtime to connect to the application database and the error hospital database. The deployment descriptors contain the user name for accessing the database, but the passwords are not stored there. During the deployment process for the RIB application, the passwords are read from the wallet file and encrypted using a WebLogic utility. The encrypted passwords are added in a WebLogic deployment plan that is uploaded on the server along with the .ear file.

# Security during RIB Runtime

During the runtime process, the RIB application must make JMX calls to the JMX server. WebLogic instance user name and password are required to make connections to the JMX server. This information is stored in a secured wallet file, the path to which is stored in the rib-system.properties file.

For information about the properties in rib-system.properties file, see the "rib-system.properties" section in the "Backend System Administration and Logging" chapter of the *Oracle Retail Integration Bus Operations Guide*.

Only the operating system user who created them has read and write access to the properties files created during the RIB application deployment process. Other users do not have permission to access the files. Permissions are granted during the post deployment phase for RIB applications.

# **RIB Administration Security**

There are two categories of administrators in RIB: RIB System Administrators and RIB Application Administrators. The defined realms, roles, and users differ according to administrator type.

RIB System Administrators install, configure, and deploy defect fixes—and make sure that integration infrastructure is up and running properly.

RIB Application Administrators handle the business side of the integration system. Primarily, they bring RIB adapters up or down and fix data issues with message payloads through RIHA.

#### **RIB Application Administrators Security Domain**

The WebLogic server has a default security realm. For each rib-<app>.ear deployed, RIB creates a user in the default security realm. By default, RIB creates a user that belongs to the ribAdminGroup and administrators groups. RIB system administrators can manage rib-<app> application users and access control through the WebLogic Server Administration Console. The default group and user that RIB creates must not be deleted or modified.

The user created in ribAdminGroup has access to the RIB administration GUI. When a RIB application administrator tries to access the RIB administration GUI, a basic authentication screen is displayed, where the user must provide a user name and password for authentication. The user name must be the same as the one created by RIB in ribAdminGroup. When the credentials are verified, the RIB administration GUI home page is displayed.

#### **Multiple User Configuration**

To create new users to logon to the RIB Administration GUI, follow these steps:

- 1. Login to the WebLogic console and navigate to Home >Summary of Security Realms >myrealm >Users and Groups location.
- 2. Create a new user, for example: testuser.
- 3. Navigate to the details of the new user.
- 4. On the Groups tab, choose the created group(ribAdminGroup) from list.

For example: Home > Summary of Security Realms > Summary of Deployments > Summary of Security Realms > myrealm > Users and Groups > testuser.

#### **RIB System Administrators Security Domain**

The RIB System Administrators primarily focus on managing access to RIB's JMS server, application server instances, RIB Hospital database, and the rib-home workspace. RIB must be deployed with the default WebLogic administration user.

# Security in RIHA

Oracle Retail Integration Bus Hospital Administration or RIB Hospital Administration (RIHA) is a tool to manage RIB messages in the RIB hospital error tables. It is a Web application that is deployable on the WebLogic server.

For how to set up security for RIHA, see the "Security Setup Guidelines" section in the *Oracle Retail Integration Bus Hospital Administration Guide*.

# Security in RDMT

The RIB Diagnostic and Monitoring Took Kit (RDMT) is a collection of command line tools for controlling and monitoring RIB applications. When used from within rib-home, RDMT loads configuration information from the

rib-deployment-env-info.xml file. For user name and password information, it reads the wallet file created during the RIB application assembly process.

For information about RDMT, see the "Diagnostic and Monitoring Tools" chapter in the *Oracle Retail Integration Bus Operations Guide*.

# Security in PL/SQL Application API Stubs

The plsql-api-stubs is an API simulator designed to act as though RIB is connected to the application, but it can process specific status and other parameters from a "stubbed" application. This set of tools is designed to emulate those applications exposing PL/SQL APIs to RIB, such as RMS, ORFM, and RWMS. The tool reads and writes the user name and password for connecting to the database in a secured wallet file.

# Security in Integration Gateway Services

The RIB Integration Gateway Services (IGS) component is a set of standard Simple Object Access Protocol (SOAP) based Web services that provide access to the RIB infrastructure. These Web services are generated using the Oracle Retail Service Enabler Tool. They should be secured after being deployed. For information, see "Secure IGS Web Services Using the Administration Console."

# **SSL** Configuration

Secure Sockets Layer (SSL) provides secure connections by allowing two applications connecting over a network to authenticate each other's identity and encrypting the data exchanged between the applications. Configuring SSL in WebLogic servers in production environments is recommended. See WebLogic documentation for how to configure SSL in WebLogic. Below is the link to documentation for configuring SSL in WebLogic 12.1.3 server:

http://docs.oracle.com/cd/E24329\_ 01/web.1211/e24422/ssl.htm#SECMG384

Deployment of RIB applications over SSL protocol is supported now by giving protocol values as https in deployment info xml.

Below are the steps for running RIB in SSL environment.

- 1. Configure SSL in the WebLogic server. (See WebLogic documentation for detailed steps.)
- Keep the SSL ports of the WebLogic server instances open for RIB deployment.. Verify that the SSL port is open: In the WebLogic administration console, go to the Configuration > General page of the server instance. Verify that the "Listen Port Enabled" checkbox is checked and provide listen address to all managed servers/admin server.
- **3.** Make sure that the rib-deployment-env-info.xml file has protocol specified as https and port numbers are https port numbers for WebLogic server instances.
- 4. While starting manages server provide admin server.

For example: startManagedServer.sh rib-oms-server https://host:port

- 5. Deploy the RIB applications.
- **6.** If required, non-SSL ports can be disabled as follows. In the WebLogic administration console go to the Configuration > General page of the server

instance. Uncheck the "Listen Port Enabled" checkbox and check the "SSL Listen Port Enabled" checkbox. This is an optional step and must be done only when all communications with the server are over HTTPS protocol.

**Note:** Due to known vulnerabilities, Oracle recommends disabling SSLv3 in all products. We recommend using the TLSv1.2 protocol. WebLogic server can be configured to use the TLSv1.2 protocol by adding the following line in the setDomainEnv.sh. Restart the server after making the change.

JAVA\_OPTIONS=" \$JAVA\_OPTIONS -DwebLogic.security.SSL.minimumProtocolVersion=TLSv1.2"

# **Appendix: RIB Application Installer Screens**

You will need the following details about your environment for the installer to successfully deploy the RIB applications. Depending on the options you select, you may not see some screens.

#### Screen: Define Scope

🛞 😑 Retail Integration Bus 15 Installer - Oracl	e Retail
ORACLE	
Define Scope of Install	
Please refer to the Install Guide for a description of the Pre	paration, Assembly and Deployment Phases.
Which install phases do you wish to run?	
	<ul> <li>Prepare, Assemble, Deploy</li> </ul>
	<ul> <li>Assemble, Deploy</li> </ul>
	O None of the Above
Configure JMS topics for RIB?	
	Yes, configure JMS server
	O No, do not configure JMS server
😣 Cancel 🔇 Back	🚫 Next 🔍 Install

Field Title	Which installation phases do you wish to run?
Field Description	Used by the installer's build.xml to determine which phases to run during the installation. Each installation phase will run a different command-line tool.
	Preparation Phase:
	check-version-and-unpack.sh
	Assembly Phase:
	rib-app-compiler.sh
	Deployment Phase:
	rib-app-deployer.sh -deploy-rib-func-artifact-war
	and/or
	rib-app-deployer.sh -deploy-rib-app-ear rib- <app></app>

Field Title	Configure JMS topics for RIB?
Field Description	Used by the installer's build.xml to determine whether to configure the JMS topics.
	Will run the command-line tool:
	rib-app-deployer.sh -prepare-jms

# Screen: Provide Inputs to Installer?

8 - Retail Integration Bus 15 Installer - Oracle Retail				
DRACLE				
Provide Inputs to Installer?				
f you have previously created a rib-deployment-env-info. configure this RIB installation. The values you have provid used to install RIB.				
However, if this is the first time you have run the installer, or if you wish to override the configuration in your existing rib-deployment-env-info.xml file, then you may choose to generate a new file. If you choose to generate a new file, this installer will prompt you for the inputs that are required to create the file. Your existing file will be backed up before the new file is created.				
Generate new rib-deployment-env-info.xml?	<ul> <li>Generate new file</li> </ul>			
	O Use existing file			
	·			
😣 Cancel 🔇 Back	📀 Next 🗇 Install			

Field Title	Generate new config file?	
Field Description	Used by the installer to determine whether to prompt user for inputs needed to generate the rib-deployment-env-info.xml file. Also used by the installer's build.xml to determine whether or not to actually generate the new file.	

# Screen: JMS Server Configuration

😕 😑 Retail Integration Bus 15 Installer - Oracle Retail				
ORACLE"				
JMS Server Configuration				
For most users, a single JMS server is recommended. If you intend to use multiple JMS servers, then please read the Install Guide carefully to be sure that you have completed all the prerequisite steps for a multiple JMS install.				
JMS Server Configuration	<ul> <li>Single JMS Server (recommended)</li> <li>Multiple JMS Servers (advanced)</li> </ul>			
Cancel Cancel Next Install				

Field Title	JMS Server Configuration
Field Description	Used by the installer to determine how many sets of JMS server inputs should be collected from the user.

# Screen: Prerequisites for Multiple JMS Server Configuration

🥺 😑 Retail Integration Bus 15 Installer - Oracle Retail
DRACLE
Prequisites for Multiple JMS Server Configuration
You have chosen to configure more than one JMS server. Please be aware that multiple JMS configuration requires additional steps. Before you continue with the rest of this install, verify that you have completed the following steps:
<ol> <li>Run the check-version-and-unpack.sh script</li> <li>Configure the rib-<app>-adapters.xml files</app></li> <li>configure rib-app-adapters-resources.properties files</li> </ol>
Please see the Install Guide for more details about these manual steps. If you have not yet completed these steps, you may wish to cancel this install until the prerequisites have been fulfilled.
WARNING: This install will fail if you have not completed these prerequisites. Please do not continue if these steps are not complete.
😣 Cancel 🔇 Back 💽 Next

# Screen: Number of JMS Servers

🤕 😑 Retail Integration Bus 15 Installer - Oracle Retail
ORACLE'
Number of JMS Servers
Total Number of JMS Servers
2
NOTE: There is a maximum limit of 5 JMS servers that can be configured using this installer. This is a limitation of the installer itself, not a limitation of the RIB. If you wish to configure more than 5 JMS servers, you must manually edit the rib-deployment-env-info.xml file.
Cancel Sack Next Install

Field Title	Total Number of JMS Servers
Field Description	Used by the installer to determine how many sets of JMS server inputs should be collected from the user.
Example	5

#### Screen: JMS Server 1

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😣 🖯 Retail Integration I	Bus 15 Installer - Orac	le Retail	
ORACLE			
JMS Server 1			
JMS Server ID		jms1	
	😣 Cancel 🔇 Back	Next 🗇 Install	

**Note:** The installer will request input for as many JMS servers as were chosen on the previous screen. There will be one input screen for each JMS server.

Field Title	JMS Server ID
Field Description	The name of the JMS server.
Destination	rib-deployment-env-info.xml
Example	jms1

# Screen: JMS Server 1 Details

😕 😑 Retail Integration Bus 15 Installer - Oracle Retail	
ORACLE	
JMS Server 1 Details	
AQ1 JMS Server Home AQ1 JMS URL AQ1 JMS Port	user@hostname:/location jdbc:oracle:thin:@host:port/servicename port no
AQ1 JMS User AQ1 JMS Password AQ1 JMS User Alias	schema user jms1_jms_user-name-alias
😣 Cancel 🔇 Back 🕢 Next 🗇 Install	

Field Title	AQ1 JMS Server Home
Field Description	The AQ1 JMS server home
Destination	rib-deployment-env-info.xml
Example	oracle@myhost:/u01/oradata

Field Title	AQ1 JMS URL
Field Description	The AQ1 JMS URL
Destination	rib-deployment-env-info.xml
Example	oracle@myhost:/u01/oradata

Field Title	AQ1 JMS Port
Field Description	The AQ1 JMS port
Destination	rib-deployment-env-info.xml
Example	1521

Field Title	AQ1 JMS User
Field Description	The AQ1 JMS user
Destination	rib-deployment-env-info.xml

Field Title	AQ1 JMS Password
Field Description	The AQ1 JMS password.

Field Title	AQ1 JMS Password
Destination	rib-deployment-env-info.xml

Field Title	AQ1 JMS Alias
Field Description	The alias is used by the application to access user names and passwords in the wallet file cwallet.sso.
Destination	rib-deployment-env-info.xml
Example	This alias must be unique. Do not use the same value for any other alias fields in the installer. If the same alias is used, entries in the wallet can override each other and cause problems with the application.

# Screen: Security Details

😕 😑 Retail Integration Bus 15 Installer - Oracle Retail	
ORACLE	
Security Details	
Provide security details for RIB application	
Note: enabling SSL requires that security certificates have been configured and installed for the WebLogic domain(s). The AdminServer and all managed servers must then be configured to use SSL.	
Enable SSL for RIB?	
<ul> <li>Yes</li> </ul>	
⊖ No	
😣 Cancel 🔇 Back 💽 Next 🗇 Install	

Field Title	Enable SSL for RIB
Field Description	Option to deploy RIB to a secured environment, by selecting enable SSL flag to YES and providing SSL port while configuring wls. RIB deployed to SSL enabled WebLogic server. By setting Enable SSL for RIB to No, RIB will be deployed to a non SSL environment
Example	YES/NO

# Screen: Number of WebLogic Installations

O Retail Integration Bus 14 Installer - Oracle Retail	_ X
ORACLE	
Number of Weblogic Installations	-
You may choose to deploy all your rib- <app> to a single Application Server, or you may choos Application Servers. How many different Weblogic Server installations will be used?</app>	e to deploy different rib- <app> to different</app>
(NOTE: Please be careful not to confuse an Weblogic Server installation with an WLS instance Application Servers, not the number of WLS instances.)	. This screen is asking for the number of
Total Number of Application Server installations	
1	•
😣 Cancel 🔇 Back 🕢 Next 🖘 Inst	all

Field Title	Total Number of Oracle WebLogic Server Installations
Field Description	The number of different WebLogic Servers to which your rib- <app> applications will be installed. The installer uses this information to determine how many Oracle WebLogic servers it must request input for.</app>
Example	1

#### Screen: WebLogic Instance <X> Details

😕 😑 Retail Integration Bus 15 Installer - Oracle Retail		
ORACLE"		
Weblogic Instance 1 Details		
Enter details for Weblogic Server number 1		
Weblogic Domain Name	domain_name	
Weblogic Domain Home	user@hostname:/location	
Weblogic Admin User	weblogic user name	
Weblogic Admin Password		
Weblogic Admin Alias	wls1_admin_user_alias	
Weblogic Admin Port	port no	
Java Home	java home path	
😣 Cancel 🔇 Back 🖉 Next 🗇 Install		

**Note:** The installer will request input for as many Oracle WebLogic servers as were chosen on the previous screen. There will be one input screen for each Oracle WebLogic server.

Field Title	WebLogic Domain Name
Field Description	Your App Server's domain name.
Destination	rib-deployment-env-info.xml
Example	rib_domain

Field Title	WebLogic Domain Home
Field Description	The format should be:
	<user>@<host>:<weblogic_domain_home></weblogic_domain_home></host></user>
	where
	<user> is the user who owns the files in the ORACLE_HOME</user>
	<host> is the name or IP address of the server where the App Server is installed</host>
	<weblogic_domain_home> is the filesystem path to the installed domain.</weblogic_domain_home>
Destination	rib-deployment-env-info.xml
Example	myuser@myhost:/path/to/weblogic/domain/home

Field Title	WebLogic Admin User	
Field Description	The WebLogic admin user for this WebLogic instance.	
Destination	rib-deployment-env-info.xml	

Field Title	WebLogic Admin Password	
Field Description	The WebLogic admin password for this WebLogic instance.	
Destination	rib-deployment-env-info.xml	

Field Title	WebLogic Admin Alias
Field Description	The alias is used by the application to access user names and passwords in the wallet file cwallet.sso.
Destination	rib-deployment-env-info.xml
Example	weblogic-alias
Notes	This alias must be unique. Do not use the same value for any other alias fields in the installer. If the same alias is used, entries in the wallet can override each other and cause problems with the application.

Field Title	WebLogic Admin Port
Field Description	The port used to access the AdminServer for this domain. It is found in \$WEBLOGIC_DOMAIN_HOME/config/config.xml.
Destination	rib-deployment-env-info.xml
Example	7001

Field Title	Java Home
Field Description	The JDK in the ORACLE_HOME.
Destination	rib-deployment-env-info.xml
Example	/path/to/jdk

# Screen: Choose Apps to Install

🛞 😑 Retail Integration Bus 15 Installer - Oracle Retail		
ORACLE <sup>®</sup>		
Choose Apps to Install		
NOTE: The RIB functional artifacts MUST be installed in your environment for the rib- <app> applications to work properly. Make sure to install the rib-func-artifact unless you have already installed it and do not wish to update it at this time.</app>		
Install rib-func-artifact?	<b>V</b>	
Install rib-sim?	✓	
Install rib-rpm?	✓	
Install rib-rms?	✓	
Install rib-rfm?	✓	
Install rib-aip?	✓	
Install rib-tafr?	✓	
Install rib-rwms?	<b>V</b>	
Install rib-oms?	✓	
	😣 Cancel 🔇 Back 📀 Next 🗇 Install	

Field Title	Install rib- <app></app>
Field Description	Used by the installer's build.xml to determine which applications to deploy during the Deployment Phase. This screen may also be shown if you have chosen not to run the Deployment Phase, but have chosen to generate a new rib-deployment-env-info.xml file. In this case, it is used by the installer to determine the input to request from the user to create the rib-deployment-env-info.xml file.
Destination	rib-deployment-env-info.xml

#### Screen: Choose App Server for rib-<app>

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🥮 🗇 Retail Integration Bus 15 Installer - Oracle Retail		
ORACLE		
Choose Weblogic Instance for rib-sim		
Application Server 1: [my_domain] Application Server 2: [my_domain] Application Server 3: Application Server 4: Application Server 5: Application Server 6: Application Server 7: Select the Weblogic Instance where rib-sim will be installed		
	<ul> <li>Application Server 1</li> <li>Application Server 2</li> </ul>	
😣 Cancel 🔇 Back 📀 Next 🕋 Install		

**Note:** The screen capture above shows rib-sim. There are similar screens for rib-func-artifacts and for each other rib-<app> that you have chosen to install.

Field Title	Select the App Server where rib- <app> will be installed</app>
Field Description	Used by the installer's build.xml to determine the application server with which to associate the rib- <app>'s WLS instance. <b>Note:</b> The installer requests this information for rib-func-artifact, even if you have chosen to install rib-func-artifact at this time. The reason is that the rib-func-artifact inputs must exist in the rib-deployment-env-info.xml file to deploy any rib-<app:>.</app:></app>
Destination	rib-deployment-env-info.xml

#### **Screen: Set Email Defaults**

🛞 😑 Retail Integration Bus 15 Installer - Oracle Retail		
ORACLE		
Set Email Defaults		
Each rib- <app> can be configured to send email notifications. On upcoming screens, you will be prompted to input email notification details for each rib-<app>. If you will be using the same email notification details for more than one rib-<app>, you can input that information on this screen. Your inputs will be used to pre-fill the email-related inputs on future screens, so you won't have to type the same information more than once. The values you enter on this screen will be used as default inputs on future screens, but you will still have the option to change the values if necessary.</app></app></app>		
Email server host (SMTP) Email server port From email address To email address(es)		
😣 Cancel 🔇 Back 📀 I	Vext) 🥎 Install	

Field Title	Email server host (SMTP)	
Field Description	If you are going to use the same email host for multiple rib <app> applications, you can enter it here.</app>	
Example	smtp.example.com	

Field Title	Email server port
Field Description	If you are going to use the same email port for multiple rib- <app> applications you can enter it here.</app>
Example	25

Field Title	From email address	
Field Description	If you are going to use the same email originator address for multiple rib- <app> applications you can enter it here.</app>	
Example	rib@example.com	

Field Title	To email addresses	
Field Description	If you are going to use the same email recipients list for multiple rib- <app> applications you can enter it here.</app>	
Example	name1@example.com, name2@example.com	

#### Screen: rib-<app> WLS Details

🛞 🗇 Retail Integration Bus 15 Installer - Oracle Retail		
ORACLE		
rib-sim WLS Details		
rib-sim WLS Instance Name	rib-sim-wls-instance	
rib-sim WLS Instance Home	[user]@[host]:[path-to-wls-instance]	
rib-sim WLS Instance port number	19106	
😣 Cancel 🔇 Back 🕢 Next 🗇 Install		

**Note:** The screen capture above shows the WLS details input screen for rib-sim. Depending on which rib-<app> applications you are installing, the installer may display one or more input screens for each rib-<app>.

Field Title	rib- <app> WLS Instance Name</app>
Field Description	The name of the WebLogic managed server instance where the rib- <app> will be deployed.</app>
Destination	rib-deployment-env-info.xml
Example	rib-sim-wls-instance

Field Title	rib- <app> WLS Instance Home</app>
Field Description	The format should be as follows:
	<user>@<host>:<weblogic_domain_home>/servers /<wls-instance></wls-instance></weblogic_domain_home></host></user>
	where:
	<user> is the user who owns the files in the ORACLE_HOME</user>
	<host> is the name or IP address of the server where the App Server is installed</host>
	<weblogic_domain_home> is the filesystem path to the WEBLOGIC_DOMAIN_HOME</weblogic_domain_home>
	<wls-instance> is the WebLogic managed server instance name</wls-instance>
Destination	rib-deployment-env-info.xml
Example	myuser@myhost:// <weblogic_domain_ HOME&gt;/servers/rib-sim-wls-instance</weblogic_domain_ 

Field Title	rib- <app> WLS Instance port number</app>
Field Description	The port number used by this WebLogic managed server instance.
Destination	rib-deployment-env-info.xml
Example	7011

Field Title	rib- <app> WLS User</app>
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>

Field Title	rib- <app> WLS Password</app>
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>

Field Title	rib- <app> WLS Alias</app>
Field Description	The alias is used by the application to access user names and passwords in the wallet file cwallet.sso.
Destination	rib-deployment-env-info.xml
Notes	This alias must be unique. Do not use the same value for any other alias fields in the installer. If the same alias is used, entries in the wallet can override each other and cause problems with the application.

#### Screen: <app> Details

🛞 🕞 Retail Integration Bus 15 Installer - Oracle Retail	
ORACLE	
SIM Details	
SIM hospital database URL	jdbc:oracle:thin:@[host]:[port]/[dbname]
SIM hospital database schema user	
SIM hospital schema password	
SIM hospital schema Alias	rror-hospital-database_user-name-alias
SIM JNDI URL	t3://[host]:[port]
SIM JAAS User	wlsadmin
SIM JAAS Password	
SIM JAAS Alias	sim_jndi_user-name-alias
Scancel Sack Next	🗇 Install

**Note:** The screen capture above shows the Details screen for SIM. Depending on which rib-<app> applications you are installing, you will see different details input screens. For some of the Oracle Retail applications, these inputs may appear on separate installer screens rather than all on one screen.

Field Title	<app> database URL</app>
Field Description	JDBC URL for the database
Destination	rib-deployment-env-info.xml
Example	single instance thin client: jdbc:oracle:thin:@myhost:1521:mydb

Field Title	<app> database schema User</app>
Field Description	Database user where the <app> database schema was installed</app>
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>
Example	SIM_USER

Field Title	<app> database schema password</app>
Field Description	Password for the <app> database schema user</app>
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>

Field Title	<app> database schema alias</app>
Field Description	Alias for the <app> database schema user stored in the wallet file cwallet.sso.</app>
Destination	rib-deployment-env-info.xml

Field Title	<app> database schema alias</app>
Notes	This alias must be unique. Do not use the same value for any other alias fields in the installer. If the same alias is used, entries in the wallet can override each other and cause problems with the application.

Field Title	<app> JNDI URL</app>
Field Description	URL used by rib- <app> to connect to the <app> application.</app></app>
Destination	rib-deployment-env-info.xml
Example	t3://myhost:7111

Field Title	<app> JAAS User</app>
Field Description	When rib- <app> authenticates to the <app> JNDI naming service through the URL in the previous field, it will provide this user name.</app></app>
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>
Example	weblogic

Field Title	<app> JAAS Password</app>
Field Description	The password for the <app> JAAS user</app>
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>

Field Title	<app> JAAS Alias</app>
Field Description	The alias for the <app> JAAS user stored in the wallet file cwallet.sso.</app>
Destination	<rib-deployment-env-info.xml< td=""></rib-deployment-env-info.xml<>
Example	sim-jaas-alias
Notes	This alias must be unique. Do not use the same value for any other alias fields in the installer. If the same alias is used, entries in the wallet can override each other and cause problems with the application.

## Screen: rib-<app> Admin GUI Details

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😕 😑 Retail Integration Bus 15	Installer - Oracle Retail	
ORACLE		
SIM Admin GUI Details		
rib-sim Admin GUI User rib-sim Admin GUI Password rib-sim Admin GUI Alias		rib_admin 
	Cancel 🔇 Back 🕢 Next	🗇 install

**Note:** The screen capture above shows the Admin GUI Details screen for rib-sim. The installer may show similar screens for other rib-<app>, depending on which rib-<app> applications you are currently installing.

Field Title	<app> Admin GUI User</app>
Field Description	When logging in to the admin GUI for rib- <app>, use this user name.</app>
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>
Example	weblogic

Field Title	<app> Admin GUI Password</app>	
Field Description	The password for the <app> Admin GUI user.</app>	
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>	
Notes	For WLS 12.1.3, passwords must include at least one numeral.	

Field Title	<app> Admin GUI Alias</app>
Field Description	The alias for the <app> Admin GUI user stored in the wallet file cwallet.sso.</app>
Destination	rib-deployment-env-info.xml
Example	sim-admin-gui-alias
Notes	This alias must be unique. Do not use the same value for any other alias fields in the installer. If the same alias is used, entries in the wallet can override each other and cause problems with the application.

### Screen: rib-<app> Email Notification Details

🛞 🗁 Retail Integration Bus 15 Installer - Oracle Retail	
ORACLE	
Set Email Defaults	
Each rib- <app> can be configured to send email notifications. On upo input email notification details for each rib-<app>. If you will be using more than one rib-<app>, you can input that information on this screet the email-related inputs on future screens, so you won't have to type th The values you enter on this screen will be used as default inputs on fut option to change the values if necessary.</app></app></app>	the same email notification details for n. Your inputs will be used to pre-fill he same information more than once.
Email server host (SMTP)	
Email server port	
From email address	
To email address(es)	
😣 Cancel 🔇 Back 🕢 Next	

**Note:** The screen capture above shows the Email Notification Details screen for rib-sim. The installer may show similar screens for other rib-<app>, depending on which rib-<app> applications you are currently installing.

Field Title	Email server host (SMTP)	
Field Description	The SMTP server that will be used to send notification emails from RIB.	
Destination	rib-deployment-env-info.xml	
Example	smtp.example.com	

Field Title	Email server port	
Field Description	The port for outgoing emails	
Destination	rib-deployment-env-info.xml	
Example	25	

Field Title	From address
Field Description	The email address from which the rib- <app>email notifications will originate.</app>
Destination	rib-deployment-env-info.xml
Example	rib@example.com

Field Title	To addresses
Field Description	List of recipients for rib- <app> email notifications.</app>

Field Title	To addresses
Destination	rib-deployment-env-info.xml
Example	name1@example.com, name2@example.com

### Screen: rib-oms WLS Details

😸 😑 Retail Integration Bus 15 Installer - Oracle Retail	
ORACLE	
rib-oms WLS Details	
rib-oms WLS Instance Name	rib-oms-wls-instance
rib-oms WLS Instance Home	[user]@[host]:[path-to-wls-instance]
rib-oms WLS Instance port number	19109
😣 Cancel 🕓 Back 🕢 Next 🗠 Install	

Field Title	rib- <app> WLS Instance Name</app>
Field Description	The name of the WebLogic managed server instance where the rib- <app> will be deployed.</app>
Destination	rib-deployment-env-info.xml
Example	rib-oms-wls-instance

Field Title	rib- <app> WLS Instance Home</app>
Field Description	The format should be as follows:
	<user>@<host>:<weblogic_domain_home>/servers /<wls-instance></wls-instance></weblogic_domain_home></host></user>
	where:
	<user> is the user who owns the files in the ORACLE_HOME</user>
	<host> is the name or IP address of the server where the App Server is installed</host>
	<weblogic_domain_home> is the filesystem path to the WEBLOGIC_DOMAIN_HOME</weblogic_domain_home>
	<wls-instance> is the WebLogic managed server instance name</wls-instance>
Destination	rib-deployment-env-info.xml
Example	myuser@myhost:// <weblogic_domain_ HOME&gt;/servers/rib-oms-wls-instance</weblogic_domain_ 

Field Title	rib- <app> WLS Instance port number</app>
Field Description	The port number used by this WebLogic managed server instance.
Destination	rib-deployment-env-info.xml
Example	7011

#### Screen: OMS Details

😣 😑 Retail Integration Bus 15 Installer - Oracle Retail	
ORACLE	
OMS Details	
OMS hospital database URL OMS hospital database schema user OMS hospital schema password OMS hospital schema Alias	jdbc:oracle:thin:@{host]:[port]/[dbname] 
OMS End Point URL	http://[host]:[port]
😣 Cancel 🔇 Back	Next 🗇 Install

Field Title	<app> database URL</app>
Field Description	JDBC URL for the database
Destination	rib-deployment-env-info.xml
Example	single instance thin client: jdbc:oracle:thin:@myhost:1521:mydb

Field Title	<app> database schema User</app>	
Field Description	Database user where the <app> database schema was installed</app>	
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>	

Field Title	<app> database schema password</app>
Field Description	Password for the <app> database schema user</app>
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>

Field Title	<app> database schema alias</app>
Field Description	Alias for the <app> database schema user stored in the wallet file cwallet.sso.</app>
Destination	rib-deployment-env-info.xml
Notes	This alias must be unique. Do not use the same value for any other alias fields in the installer. If the same alias is used, entries in the wallet can override each other and cause problems with the application.

Field Title	<app> Endpoint url</app>
Field Description	The application url of the oms application
Destination	rib-deployment-env-info.xml

Field Title	<app> Endpoint url</app>
Notes	The url of the oms application server with the port number assigned for oms.

# Screen: Select a Policy for OMS

🐵 🗇 Retail Integration Bus 15 Installer - Oracle Retail	
ORACLE	
Select a Policy for OMS	
Select the Policy name for OMS installation	None
😣 Cancel 🔇 Back 📀 Ne	ext 🗇 Install

Field Title	Select the Policy name for OMS installation
Field Description	Policy that need to selected.
Notes	Appropriate policy need to be selected for non-secure / secure environment /message encryption. E.g: none/PolicyA/PolicyB

## Screen: OMS Admin GUI Details

🤕 😑 Retail Integration Bus 15 Installer - Oracle Retail		
ORACLE <sup>®</sup>		
OMS Admin GUI Details		
rib-oms Admin GUI User rib-oms Admin GUI Password rib-oms Admin GUI Alias	rib_admin ib-oms_rib-admin-gui_user-name-alias	
😣 Cancel 🔇 Back 🕥 Next	I 🗇 Install	

Field Title	<app> Admin GUI User</app>
Field Description	When logging in to the admin GUI for rib- <app>, use this user name.</app>
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>

Field Title	<app> Admin GUI Password</app>
Field Description	The password for the <app> Admin GUI user.</app>
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>
Notes	For WLS 12.1.3, passwords must include at least one numeral.

Field Title	<app> Admin GUI Alias</app>
Field Description	The alias for the <app> Admin GUI user stored in the wallet file cwallet.sso.</app>
Destination	rib-deployment-env-info.xml
Example	oms-admin-gui-alias
Notes	This alias must be unique. Do not use the same value for any other alias fields in the installer. If the same alias is used, entries in the wallet can override each other and cause problems with the application.

#### Screen: rib-oms Email Notification Details

😕 🕘 Retail Integration Bus 15 Installer - Oracle Retail	
ORACLE	
rib-oms Email Notification Details	
Note: Email values cannot be left blank.	
Email server host (SMTP)	host
Email server port	port
From address	a@b.com
To address(es)	c@d.com
😣 Cancel 🔇 Back	Next Next

Field Title	Email server host (SMTP)
Field Description	The SMTP server that will be used to send notification emails from RIB.
Destination	rib-deployment-env-info.xml
Example	smtp.example.com

Field Title	Email server port	
Field Description	The port for outgoing emails	
Destination	rib-deployment-env-info.xml	
Example	25	

Field Title	From address
Field Description	The email address from which the rib- <app> email notifications will originate.</app>
Destination	rib-deployment-env-info.xml
Example	rib@example.com

Field Title	To addresses	
Field Description	List of recipients for rib- <app> email notifications.</app>	
Destination	rib-deployment-env-info.xml	
Example	name1@example.com, name2@example.com	

### Screen: rib-rpm WLS Details

😣 😑 🛛 Retail Integration Bus 15 Installer - Oracle Retail	
ORACLE	
rib-rpm WLS Details	
rib-rpm WLS Instance Name	rib-rpm-wls-instance
rib-rpm WLS Instance Home	[user]@[host]:[path-to-wls-instance]
rib-rpm WLS Instance port number 19104	
Cancel Cancel Next Istall	

Field Title	rib- <app> WLS Instance Name</app>
Field Description	The name of the WebLogic managed server instance where the rib- <app> will be deployed.</app>
Destination	rib-deployment-env-info.xml
Example	Rib-rpm-wls-instance

Field Title	rib- <app> WLS Instance Home</app>	
Field Description	The format should be as follows:	
	<user>@<host>:<weblogic_domain_home>/servers /<wls-instance></wls-instance></weblogic_domain_home></host></user>	
	where:	
	<user> is the user who owns the files in the ORACLE_HOME</user>	
	<host> is the name or IP address of the server where the App Server is installed</host>	
	<weblogic_domain_home> is the filesystem path to the WEBLOGIC_DOMAIN_HOME</weblogic_domain_home>	
	<wls-instance> is the WebLogic managed server instance name</wls-instance>	
Destination	rib-deployment-env-info.xml	
Example	myuser@myhost:// <weblogic_domain_ HOME&gt;/servers/rib-rpm-wls-instance</weblogic_domain_ 	

Field Title	rib- <app> WLS Instance port number</app>	
Field Description	The port number used by this WebLogic managed server instance.	
Destination	rib-deployment-env-info.xml	
Example	7011	

## Screen: RPM Details

Retail Integration Bus 15 Installer - Oracle Retail <b>DRACLE</b>	
RPM Details	
RPM hospital database URL RPM hospital database schema user RPM hospital schema password RPM hospital schema Alias	jdbc:oracle:thin:@[host]:[port]/[dbname]
RPM JNDI URL RPM JAAS User	t3://[host]:[port] wisadmin
RPM JAAS Password RPM JAAS Alias	rpm_jndi_user-name-alias
😡 Cancel 🔇 Back	Next 🗇 Install

Field Title	<app> database URL</app>	
Field Description	JDBC URL for the database	
Destination	rib-deployment-env-info.xml	
Example	single instance thin client: jdbc:oracle:thin:@myhost:1521:mydb	

Field Title	<app> database schema User</app>	
Field Description	Database user where the <app> database schema was installed</app>	
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>	

Field Title	<app> database schema password</app>	
Field Description	Password for the <app> database schema user</app>	
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>	

Field Title	<app> database schema alias</app>
Field Description	Alias for the <app> database schema user stored in the wallet file cwallet.sso.</app>
Destination	rib-deployment-env-info.xml
Notes	This alias must be unique. Do not use the same value for any other alias fields in the installer. If the same alias is used, entries in the wallet can override each other and cause problems with the application.

Field Title	<app> JNDI URL</app>	
Field Description	URL used by rib- <app> to connect to the <app> application.</app></app>	
Destination	rib-deployment-env-info.xml	

Field Title	<app> JNDI URL</app>
Example	t3://myhost:7111

Field Title	<app> JAAS User</app>
Field Description	When rib- <app> authenticates to the <app> JNDI naming service through the URL in the previous field, it will provide this user name. This should be the user name of the RPM application.</app></app>
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>

Field Title	<app> JAAS Password</app>	
Field Description	The password for the <app> JAAS user. This should be the password of the RPM application.</app>	
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>	

Field Title	<app> JAAS Alias</app>
Field Description	The alias for the <app> JAAS user stored in the wallet file cwallet.sso.</app>
Destination	rib-deployment-env-info.xml
Example	rpm-jaas-alias
Notes	This alias must be unique. Do not use the same value for any other alias fields in the installer. If the same alias is used, entries in the wallet can override each other and cause problems with the application.

#### Screen: RPM Admin GUI Details

😣 😑 Retail Integration Bus	i 15 Installer - Oracle Retail	
ORACLE		
RMS Admin GUI Details		
rib-rms Admin GUI User rib-rms Admin GUI Password rib-rms Admin GUI Alias		rib_admin rib-rms_rib-admin-gui_user-name-alias
	😣 Cancel 🔇 Back 🕢 Next	🗇 Install

Field Title	<app> Admin GUI User</app>	
Field Description	When logging in to the admin GUI for rib- <app>, use this user name.</app>	
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>	

Field Title	<app> Admin GUI Password</app>	
Field Description	The password for the <app> Admin GUI user.</app>	
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>	
Notes	For WLS 12.1.3, passwords must include at least one numeral.	

Field Title	<app> Admin GUI Alias</app>
Field Description	The alias for the <app> Admin GUI user stored in the wallet file cwallet.sso.</app>
Destination	rib-deployment-env-info.xml
Example	rpm-admin-gui-alias
Notes	This alias must be unique. Do not use the same value for any other alias fields in the installer. If the same alias is used, entries in the wallet can override each other and cause problems with the application.

## Screen: rib-rpm Email Notification Details

😣 😑 Retail Integration Bus 15 Installer - Oracle Retail	
ORACLE	
rib-rpm Email Notification Details	
Note: Email values cannot be left blank.	
Email server host (SMTP)	host
Email server port	port
From address	a@b.com
To address(es)	c@d.com
😡 Cancel 🔇 Back 📀	Next 🗇 Install

Field Title	Email server host (SMTP)
Field Description	The SMTP server that will be used to send notification emails from RIB.
Destination	rib-deployment-env-info.xml
Example	smtp.example.com

Field Title	Email server port
Field Description	The port for outgoing emails
Destination	rib-deployment-env-info.xml
Example	25

Field Title	From address
Field Description	The email address from which the rib- <app> email notifications will originate.</app>
Destination	rib-deployment-env-info.xml
Example	rib@example.com

Field Title	To addresses
Field Description	List of recipients for rib- <app> email notifications.</app>
Destination	rib-deployment-env-info.xml
Example	name1@example.com, name2@example.com

### Screen: rib-rms WLS Details

🥝 😑 Retail Integration Bus 15 Installer - Oracle Retail	
ORACLE	
rib-rpm WLS Details	
rib-rpm WLS Instance Name	rib-rpm-wls-instance
rib-rpm WLS Instance Home	[user]@[host]:[path-to-wls-instance]
rib-rpm WLS Instance port number 19104	
😣 Cancel 🔇 Back 🕢 Next 🗇 Install	

Field Title	rib- <app> WLS Instance Name</app>
Field Description	The name of the WebLogic managed server instance where the rib- <app> will be deployed.</app>
Destination	rib-deployment-env-info.xml
Example	rib-rms-wls-instance

Field Title	rib- <app> WLS Instance Home</app>
Field Description	The format should be as follows:
	<user>@<host>:<weblogic_domain_home>/servers /<wls-instance></wls-instance></weblogic_domain_home></host></user>
	where:
	<user> is the user who owns the files in the ORACLE_HOME</user>
	<host> is the name or IP address of the server where the App Server is installed</host>
	<weblogic_domain_home> is the filesystem path to the WEBLOGIC_DOMAIN_HOME</weblogic_domain_home>
	<wls-instance> is the WebLogic managed server instance name</wls-instance>
Destination	rib-deployment-env-info.xml
Example	myuser@myhost:// <weblogic_domain_ HOME&gt;/servers/rib-rms-wls-instance</weblogic_domain_ 

Field Title	rib- <app> WLS Instance port number</app>
Field Description	The port number used by this WebLogic managed server instance.
Destination	rib-deployment-env-info.xml
Example	7011

#### Screen: RMS Datasources

Retail Integration Bus 15 Installer - Oracle Retail	
RMS database schema Alias RMS Hospital database URL RMS Hospital schema user RMS Hospital schema password	rib-rms_app-database_user-name-alias jdbc:oracle:thin:@(host):[port]/[dbname]
RMS Hospital schema Alias	ror-hospital-database_user-name-alias
😡 Cancel) 🔇	Back Next Install

Field Title	<app> database URL</app>
Field Description	JDBC URL for the database
Destination	rib-deployment-env-info.xml
Example	single instance thin client: jdbc:oracle:thin:@myhost:1521:mydb

Field Title	<app> database schema User</app>
Field Description	Database user where the <app> database schema was installed</app>
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>

Field Title	<app> database schema password</app>
Field Description	Password for the <app> database schema user</app>
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>

Field Title	<app> database schema alias</app>
Field Description	Alias for the <app> database schema user stored in the wallet file cwallet.sso.</app>
Destination	rib-deployment-env-info.xml
Notes	This alias must be unique. Do not use the same value for any other alias fields in the installer. If the same alias is used, entries in the wallet can override each other and cause problems with the application.

### Screen: RMS Admin GUI Details

😣 😑 Retail Integration Bus 15 Installer - Oracle Retail		
ORACLE		
RMS Admin GUI Details		
rib-rms Admin GUI User rib-rms Admin GUI Password rib-rms Admin GUI Alias		rib_admin rib-rms_rib-admin-gui_user-name-alias
	😣 Cancel 🔇 Back 🕢 Next	🗇 Install

Field Title	<app> Admin GUI User</app>
Field Description	When logging in to the admin GUI for rib- <app>, use this user name.</app>
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>

Field Title	<app> Admin GUI Password</app>	
Field Description	The password for the <app> Admin GUI user.</app>	
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>	
Notes	For WLS 12.1.3, passwords must include at least one numeral.	

Field Title	<app> Admin GUI Alias</app>
Field Description	The alias for the <app> Admin GUI user stored in the wallet file cwallet.sso.</app>
Destination	rib-deployment-env-info.xml
Example	rms-admin-gui-alias
Notes	This alias must be unique. Do not use the same value for any other alias fields in the installer. If the same alias is used, entries in the wallet can override each other and cause problems with the application.

#### Screen: rib-rms Email Notification Details

😣 😑 Retail Integration Bus 15 Installer - Oracle Retail		
ORACLE		
rib-rms Email Notification Details		
Note: Email values cannot be left blank.		
Email server host (SMTP)	host	
Email server port	port	
From address	a@b.com	
To address(es)	c@d.com	
😣 Cancel 🔇 Back 💽 Next 🕋 Install		

Field Title	Email server host (SMTP)
Field Description	The SMTP server that will be used to send notification emails from RIB.
Destination	rib-deployment-env-info.xml
Example	smtp.example.com

Field Title	Email server port	
Field Description	The port for outgoing emails	
Destination	rib-deployment-env-info.xml	
Example	25	

Field Title	From address
Field Description	The email address from which the rib- <app> email notifications will originate.</app>
Destination	rib-deployment-env-info.xml
Example	rib@example.com

Field Title	To addresses
Field Description	List of recipients for rib- <app> email notifications.</app>
Destination	rib-deployment-env-info.xml
Example	name1@example.com, name2@example.com

### Screen: rib-tafr WLS Details

😣 😑 Retail Integration Bus 15 Installer - Oracle Retail		
ORACLE		
rib-tafr WLS Details		
rib-tafr WLS Instance Name	rib-tafr-wls-instance	
rib-tafr WLS Instance Home	[user]@[host]:[path-to-wls-instance]	
rib-tafr WLS Instance port number	19108	
😣 Cancel 🛇 Back 🕢 Next 🗠 Install		

Field Title	rib- <app> WLS Instance Name</app>
Field Description	The name of the WebLogic managed server instance where the rib- <app> will be deployed.</app>
Destination	rib-deployment-env-info.xml
Example	rib-oms-wls-instance

Field Title	rib- <app> WLS Instance Home</app>
Field Description	The format should be as follows:
	<user>@<host>:<weblogic_domain_home>/servers /<wls-instance></wls-instance></weblogic_domain_home></host></user>
	where:
	<user> is the user who owns the files in the ORACLE_HOME</user>
	<host> is the name or IP address of the server where the App Server is installed</host>
	<weblogic_domain_home> is the filesystem path to the WEBLOGIC_DOMAIN_HOME</weblogic_domain_home>
	<wls-instance> is the WebLogic managed server instance name</wls-instance>
Destination	rib-deployment-env-info.xml
Example	myuser@myhost:// <weblogic_domain_ HOME&gt;/servers/rib-oms-wls-instance</weblogic_domain_ 

Field Title	rib- <app> WLS Instance port number</app>
Field Description	The port number used by this WebLogic managed server instance.
Destination	rib-deployment-env-info.xml
Example	7011

#### Screen: TAFR Datasources

🔕 😑 🛛 Retail Integration Bus 15 Installer - Oracle Retail	
ORACLE	
TAFR Datasources	
TAFR database URL TAFR database schema user TAFR database schema password TAFR database schema Alias	jdbc:oracle:thin:@{host]:[port]/[dbname]
😣 Cancel 🔇 Back 🕢 Nex	at 🗇 Install

Field Title	<app> database URL</app>
Field Description	JDBC URL for the database
Destination	rib-deployment-env-info.xml
Example	single instance thin client: jdbc:oracle:thin:@myhost:1521:mydb

Field Title	<app> database schema User</app>
Field Description	Database user where the <app> database schema was installed</app>
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>

Field Title	<app> database schema password</app>
Field Description	Password for the <app> database schema user</app>
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>

Field Title	<app> database schema alias</app>
Field Description	Alias for the <app> database schema user stored in the wallet file cwallet.sso.</app>
Destination	rib-deployment-env-info.xml
Notes	This alias must be unique. Do not use the same value for any other alias fields in the installer. If the same alias is used, entries in the wallet can override each other and cause problems with the application.

### Screen: TAFR Admin GUI Details

😣 😑 Retail Integration Bus 15 Installer - Oracle Retail	
ORACLE <sup>®</sup>	
TAFR Admin GUI Details	
rib-tafr Admin GUI User rib-tafr Admin GUI Password rib-tafr Admin GUI Alias	rib_admin   rib-tafr_rib-admin-gui_user-name-alias
😣 Cancel 🔇 Back	Next Istall

Field Title	<app> Admin GUI User</app>
Field Description	When logging in to the admin GUI for rib- <app>, use this user name.</app>
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>

Field Title	<app> Admin GUI Password</app>
Field Description	The password for the <app> Admin GUI user.</app>
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>
Notes	For WLS 12.1.3, passwords must include at least one numeral.

Field Title	<app> Admin GUI Alias</app>
Field Description	The alias for the <app> Admin GUI user stored in the wallet file cwallet.sso.</app>
Destination	rib-deployment-env-info.xml
Example	tafr-admin-gui-alias
Notes	This alias must be unique. Do not use the same value for any other alias fields in the installer. If the same alias is used, entries in the wallet can override each other and cause problems with the application.

### Screen: rib-tafr Email Notification Details

😣 😑 Retail Integration Bus 15 Installer - Oracle Retail	
ORACLE	
rib-tafr Email Notification Details	
Note: Email values cannot be left blank.	
Email server host (SMTP)	host
Email server port	port
From address	a@b.com
To address(es)	c@d.com
😣 Cancel 🔇 Back 📀	Vext Nistall
😣 Cancel 🔇 Back 🕗 I	vext (** install

Field Title	Email server host (SMTP)
Field Description	The SMTP server that will be used to send notification emails from RIB.
Destination	rib-deployment-env-info.xml
Example	smtp.example.com

Field Title	Email server port
Field Description	The port for outgoing emails
Destination	rib-deployment-env-info.xml
Example	25

Field Title	From address
Field Description	The email address from which the rib- <app> email notifications will originate.</app>
Destination	rib-deployment-env-info.xml
Example	rib@example.com

Field Title	To addresses
Field Description	List of recipients for rib- <app> email notifications.</app>
Destination	rib-deployment-env-info.xml
Example	name1@example.com, name2@example.com

## Screen: rib-aip WLS Details

😣 😑 Retail Integration Bus 15 Installer - Oracle Retail	
ORACLE	
rib-aip WLS Details	
rib-aip WLS Instance Name	rib-aip-wls-instance
rib-aip WLS Instance Home	[user]@[host]:[path-to-wls-instance]
rib-aip WLS Instance port number	19107
😣 Cancel 🔇 Back 🖉 Next 🗇 Install	

Field Title	rib- <app> WLS Instance Name</app>
Field Description	The name of the WebLogic managed server instance where the rib- <app> will be deployed.</app>
Destination	rib-deployment-env-info.xml
Example	rib-aip-wls-instance

Field Title	rib- <app> WLS Instance Home</app>
Field Description	The format should be as follows:
	<user>@<host>:<weblogic_domain_home>/servers /<wls-instance></wls-instance></weblogic_domain_home></host></user>
	where:
	<user> is the user who owns the files in the ORACLE_HOME</user>
	<host> is the name or IP address of the server where the App Server is installed</host>
	<weblogic_domain_home> is the filesystem path to the WEBLOGIC_DOMAIN_HOME</weblogic_domain_home>
	<wls-instance> is the WebLogic managed server instance name</wls-instance>
Destination	rib-deployment-env-info.xml
Example	myuser@myhost:// <weblogic_domain_ HOME&gt;/servers/rib-aip-wls-instance</weblogic_domain_ 

Field Title	rib- <app> WLS Instance port number</app>
Field Description	The port number used by this WebLogic managed server instance.
Destination	rib-deployment-env-info.xml
Example	7011

### **Screen: AIP Details**

🛿 🔵 Retail Integration Bus 15 Installer - Oracle Retail	
DRACLE	
AIP Details	
AIP hospital database URL AIP hospital database schema user AIP hospital schema password AIP hospital schema Alias	jdbc:oracle:thin:@[host]:[port]/[dbname]
AIP JNDI URL AIP JAAS User AIP JAAS Password AIP JAAS Alias	t3://[host]:[port] wlsadmin aip_jndi_user-name-alias
😣 Cancel 🔇 Back 🕢 Next 🗇 Install	

Field Title	<app> database URL</app>
Field Description	JDBC URL for the database
Destination	rib-deployment-env-info.xml
Example	single instance thin client: jdbc:oracle:thin:@myhost:1521:mydb

Field Title	<app> database schema password</app>
Field Description	Password for the <app> database schema user</app>
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>

Field Title	<app> database schema User</app>	
Field Description	Database user where the <app> database schema was installed</app>	
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>	

Field Title	<app> database schema alias</app>
Field Description	Alias for the <app> database schema user stored in the wallet file cwallet.sso.</app>
Destination	rib-deployment-env-info.xml
Notes	This alias must be unique. Do not use the same value for any other alias fields in the installer. If the same alias is used, entries in the wallet can override each other and cause problems with the application.

Field Title	<app> JNDI URL</app>	
Field Description	URL used by rib- <app> to connect to the <app> application.</app></app>	
Destination	rib-deployment-env-info.xml	

Field Title	<app> JNDI URL</app>
Example	t3://myhost:7111

Field Title	<app> JAAS User</app>
Field Description	When rib- <app> authenticates to the <app> JNDI naming service through the URL in the previous field, it will provide this user name. This should be the user name of the AIP application.</app></app>
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>

Field Title	<app> JAAS Password</app>	
Field Description	The password for the <app> JAAS user. This should be the password of the AIP application.</app>	
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>	

Field Title	<app> JAAS Alias</app>
Field Description	The alias for the <app> JAAS user stored in the wallet file cwallet.sso.</app>
Destination	<rib-deployment-env-info.xml< td=""></rib-deployment-env-info.xml<>
Example	aip-jaas-alias
Notes	This alias must be unique. Do not use the same value for any other alias fields in the installer. If the same alias is used, entries in the wallet can override each other and cause problems with the application.

## **Screen: AIP Admin GUI Details**

8 😑 Retail Integration Bus 15 Installer - Oracle Retail		
ORACLE"		
AIP Admin GUI Details		
rib-aip Admin GUI User rib-aip Admin GUI Password	rib_admin	
rib-aip Admin GUI Alias	rib-aip_rib-admin-gui_user-name-alias	
😣 Cancel	Back 💽 Next 🗇 Install	

Field Title	<app> Admin GUI User</app>	
Field Description	When logging in to the admin GUI for rib- <app>, use this user name.</app>	
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>	

Field Title	<app> Admin GUI Password</app>	
Field Description	The password for the <app> Admin GUI user.</app>	
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>	
Notes	For WLS 12.1.3, passwords must include at least one numeral.	

Field Title	<app> Admin GUI Alias</app>
Field Description	The alias for the <app> Admin GUI user stored in the wallet file cwallet.sso.</app>
Destination	rib-deployment-env-info.xml
Example	aip-admin-gui-alias
Notes	This alias must be unique. Do not use the same value for any other alias fields in the installer. If the same alias is used, entries in the wallet can override each other and cause problems with the application.

## Screen: rib-aip Email Notification Details

😣 🔿 Retail Integration Bus 15 Installer - Oracle Retail			
ORACLE			
rib-aip Email Notification Details			
Note: Email values cannot be left blank.			
Email server host (SMTP)	host		
Email server port	port		
From address	a@b.com		
To address(es)	c@d.com		
😣 Cancel 🔇 Back 🖉 Ne	xt 🗇 Install		

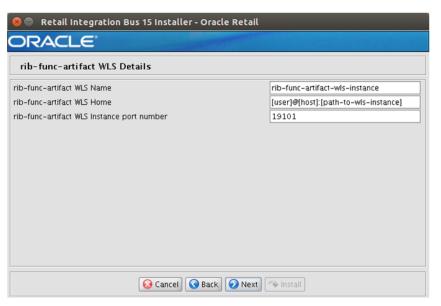
Field Title	Email server host (SMTP)
Field Description	The SMTP server that will be used to send notification emails from RIB.
Destination	rib-deployment-env-info.xml
Example	smtp.example.com

Field Title	Email server port
Field Description	The port for outgoing emails
Destination	rib-deployment-env-info.xml
Example	25

Field Title	From address
Field Description	The email address from which the rib- <app> email notifications will originate.</app>
Destination	rib-deployment-env-info.xml
Example	rib@example.com

Field Title	To addresses
Field Description	List of recipients for rib- <app> email notifications.</app>
Destination	rib-deployment-env-info.xml
Example	name1@example.com, name2@example.com

#### Screen: rib-func-artifacts WLS Details



Field Title	rib- <app> WLS Instance Name</app>
Field Description	The name of the WebLogic managed server instance where the rib- <app> will be deployed.</app>
Destination	rib-deployment-env-info.xml
Example	rib-func-wls-instance

Field Title	rib- <app> WLS Instance Home</app>
Field Description	The format should be as follows:
	<user>@<host>:<weblogic_domain_home>/servers /<wls-instance></wls-instance></weblogic_domain_home></host></user>
	where:
	<user> is the user who owns the files in the ORACLE_HOME</user>
	<host> is the name or IP address of the server where the App Server is installed</host>
	<weblogic_domain_home> is the filesystem path to the WEBLOGIC_DOMAIN_HOME</weblogic_domain_home>
	<wls-instance> is the WebLogic managed server instance name</wls-instance>
Destination	rib-deployment-env-info.xml
Example	myuser@myhost:// <weblogic_domain_ HOME&gt;/servers/rib-func-wls-instance</weblogic_domain_ 

Field Title	rib- <app> WLS Instance port number</app>
Field Description	The port number used by this WebLogic managed server instance.
Destination	rib-deployment-env-info.xml
Example	7011

# Screen: rib-func-artifact Web Application Details

Retail Integration Bus 15 Installer - Or      RACLE	acle Retall
rib-func-artifact Web Application details	
rib-func-artifact Web-App User rib-func-artifact Web-App Password rib-func-artifact Web-App Alias	func-artifact_web-app_user-name-alias
😡 Cancel 🔇 Ba	K Next / Install

Field Title	rib-func-artifact Web-App User	
Field Description	When logging in to the web application for rib-func-artifact, use this user name.	
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>	

Field Title	rib-func-artifact Web-App Password	
Field Description	The password for the rib-func-artifact Web-App user.	
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>	
Notes	For WLS 12.1.3, passwords must include at least one numeral.	

Field Title	rib-func-artifact Web-App Alias
Field Description	The alias for the rib-func-artifact web-app user stored in the wallet file cwallet.sso.
Destination	rib-deployment-env-info.xml
Example	func-artifact_web-app_user-name-alias
Notes	This alias must be unique. Do not use the same value for any other alias fields in the installer. If the same alias is used, entries in the wallet can override each other and cause problems with the application.

#### Screen: rib-rwms WLS Details

DRACLE	
rib-rpm WLS Details	
ib-rpm WLS Instance Name	rib-rpm-wls-instance
ib-rpm WLS Instance Home	[user]@[host]:[path-to-wls-instance]
ib-rpm WLS Instance port number	19104

Field Title	rib- <app> WLS Instance Name</app>
Field Description	The name of the WebLogic managed server instance where the rib- <app> will be deployed.</app>
Destination	rib-deployment-env-info.xml
Example	rib-rwms-wls-instance

Field Title	rib- <app> WLS Instance Home</app>
Field Description	The format should be as follows:
	<user>@<host>:<weblogic_domain_home>/servers /<wls-instance></wls-instance></weblogic_domain_home></host></user>
	where:
	<user> is the user who owns the files in the ORACLE_HOME</user>
	<host> is the name or IP address of the server where the App Server is installed</host>
	<weblogic_domain_home> is the filesystem path to the WEBLOGIC_DOMAIN_HOME</weblogic_domain_home>
	<wls-instance> is the WebLogic managed server instance name</wls-instance>
Destination	rib-deployment-env-info.xml
Example	myuser@myhost:// <weblogic_domain_ HOME&gt;/servers/rib-rwms-wls-instance</weblogic_domain_ 

Field Title	rib- <app> WLS Instance port number</app>
Field Description	The port number used by this WebLogic managed server instance.
Destination	rib-deployment-env-info.xml
Example	7011

#### Screen: RWMS Datasources

Retail Integration Bus 15 Installer - Oracle Retail         DRACLE	
RWMS Datasources	
RWMS database URL	jdbc:oracle:thin:@[host]:[port]/[dbname]
RWMS database schema user	
RWMS database schema password	
RWMS database schema Alias	o-rwms_app-database_user-name-alias
RWMS Hospital database URL	jdbc:oracle:thin:@{host]:[port]/[dbname]
RWMS Hospital schema user	
RWMS Hospital schema password	
RWMS Hospital schema Alias	ror-hospital-database_user-name-alias
😣 Cancel 🔇 Back 🔗 Next 🗇 Install	

Field Title	<app> database URL</app>
Field Description	JDBC URL for the database
Destination	rib-deployment-env-info.xml
Example	single instance thin client: jdbc:oracle:thin:@myhost:1521:mydb

Field Title	<app> database schema User</app>
Field Description	Database user where the <app> database schema was installed</app>
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>

Field Title	<app> database schema password</app>
Field Description	Password for the <app> database schema user</app>
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>

Field Title	<app> database schema alias</app>
Field Description	Alias for the <app> database schema user stored in the wallet file cwallet.sso.</app>
Destination	rib-deployment-env-info.xml
Notes	This alias must be unique. Do not use the same value for any other alias fields in the installer. If the same alias is used, entries in the wallet can override each other and cause problems with the application.

### Screen: rib-rwms Email Notification Details

😣 😑 Retail Integration Bus 15 Installer - Oracle Retail	
ORACLE <sup>®</sup>	
rib-rwms Email Notification Details	
Note: Email values cannot be left blank.	
Email server host (SMTP)	host
Email server port	port
From address	a@b.com
To address(es)	c@d.com
Cancel Sack Next winstall	

Field Title	Email server host (SMTP)
Field Description	The SMTP server that will be used to send notification emails from RIB.
Destination	rib-deployment-env-info.xml
Example	smtp.example.com

Field Title	Email server port
Field Description	The port for outgoing emails
Destination	rib-deployment-env-info.xml
Example	25

Field Title	From address
Field Description	The email address from which the rib- <app> email notifications will originate.</app>
Destination	rib-deployment-env-info.xml
Example	rib@example.com

Field Title	To addresses	
Field Description	List of recipients for rib- <app> email notifications.</app>	
Destination	rib-deployment-env-info.xml	
Example	name1@example.com, name2@example.com	

#### Screen: RWMS Admin GUI Details

😣 😑 Retail Integration Bus 15 Installer - Oracle Retail				
ORACLE				
RWMS Admin GUI Details				
rib-rwms Admin GUI User rib-rwms Admin GUI Password rib-rwms Admin GUI Alias	ļ	rib_admin o-rwms_rib-admin-gui_user-name-alias		
😣 Ca	ncel 🔇 Back 📀 Next 🧨	≫ Install		

Field Title	<app> Admin GUI User</app>
Field Description	When logging in to the admin GUI for rib- <app>, use this user name.</app>
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>

Field Title	<app> Admin GUI Password</app>	
Field Description	The password for the <app> Admin GUI user.</app>	
Destination	<rib_home>/deployment-home/conf/security/cwallet.sso</rib_home>	
Notes	For WLS 12.1.3, passwords must include at least one numeral.	

Field Title	<app> Admin GUI Alias</app>
Field Description	The alias for the <app> Admin GUI user stored in the wallet file cwallet.sso.</app>
Destination	rib-deployment-env-info.xml
Example	rwms-admin-gui-alias
Notes	This alias must be unique. Do not use the same value for any other alias fields in the installer. If the same alias is used, entries in the wallet can override each other and cause problems with the application.

# **Appendix: RIB Installer Common Errors**

This appendix provides some common errors encountered during installation to aid in troubleshooting.

### Unreadable Buttons in the Installer

If you are unable to read the text within the installer buttons, it could mean that your JAVA\_HOME is pointed to an older version of the JDK than is supported by the installer. Set JAVA\_HOME to a 1.7.0 64 bit with latest security updates (64 bit for Linux and Solaris OS only) and run the installer again.

### Warning: Could not Create System Preferences Directory

#### Symptom:

The following text appears in the installer Errors tab:

```
May 22, 2010 11:16:39 AM java.util.prefs.FileSystemPreferences$3 run
WARNING: Could not create system preferences directory. System preferences are
unusable.
May 22, 2010 11:17:09 AM java.util.prefs.FileSystemPreferences
checkLockFileOErrorCode
WARNING: Could not lock System prefs. Unix error code -264946424.
```

#### Solution:

This is related to Java bug 4838770. The /etc/.java/.systemPrefs directory may not have been created on your system. See http://bugs.sun.com for details.

This is an issue with your installation of Java and does not affect the Oracle Retail product installation.

### ConcurrentModificationException in Installer GUI

#### Symptom:

In GUI mode, the Errors tab shows the following error:

```
java.util.ConcurrentModificationException
.....at
java.util.AbstractList$Itr.checkForComodification(AbstractList.java:448)
.....at java.util.AbstractList$Itr.next(AbstractList.java:419)
......etc.
```

#### Solution:

You can ignore this error. It is related to third-party Java Swing code for rendering of the installer GUI and does not affect the retail product installation.

### Warning: Could Not Find X Input Context

#### Symptom:

The following text appears in the console window during execution of the installer in GUI mode:

Couldn't find X Input Context

#### Solution:

This message is harmless and can be ignored.

### Message: Problem Occurred during Parsing Input XML Files

#### Symptom:

The following text appears in the console window during execution of the installer:

```
ERROR oracle.retail.rib.compiler.Main - Problem occurred during parsing input xml files. Please check the log file(../../rib-home/application-assembly-home/log) for more details.
```

Caused by: ValidationException:

#### Solution:

The rib-deployment-env-info.xml file is validated during the Assembly Phase using stricter criteria than is enforced by the installer input screens. If the validation fails, the installer will print an error message to help you determine the cause of the validation failure. It is recommended that you fix the rib-deployment-env-info.xml file manually, and then re-run the installer with the "Use existing rib-deployment-env-info.xml" option.

### rib-app-builder Hangs if a User is Logged in to the Administration Console during Deployment

If the WebLogic server is installed in development mode, the rib-app-builder may "hang" if a user is already logged into the admin console. Click **Activate Changes** in the admin console to continue with rib-app-builder process every time it happens. To prevent this from occurring, use the option in the WebLogic admin console.

- 1. Click the Preferences link on the admin console.
- 2. Uncheck the Automatically Acquire Lock and Activate Changes check box.
- 3. Click Release Configuration.

The above process will enable only one user to make admin changes to the server. For making admin changes to the console, the user must explicitly acquire the lock, make changes, and release configuration.

Make sure the Release Configuration button in the admin console is disabled before starting to deploy rib apps. So even if you navigate to other screens while deploying RIB apps, the rib deployer will not hang.

**Note:** If the WebLogic server is installed in production mode, by default it acquires the lock before making any changes to the server. Therefore, the above steps need not be followed when deploying rib-apps to a WebLogic server running in production mode.

С

# **Appendix: RIB Installation Checklists**

This appendix is intended as an aid in the installation of RIB. It is not intended to replace the detailed description of each of the process steps and prerequisites, but to act as a companion to those steps. For a successful installation, a methodical reading and understanding of each step of the *Oracle Retail Integration Bus Installation Guide* is strongly recommended.

## **RIB Installation Master Checklist**

This checklist covers all of the sequential steps required to perform a full installation of the RIB, using either the GUI RIB Installer (strongly recommended) or a command line installation.

Task	Notes
Prepare the WebLogic servers for installation of the RIB Components	Prerequisite
Prepare the Oracle Database schemas that the RIB will use.	Prerequisite
Prepare the Oracle AQ JMS	Prerequisite
Verify the applications the RIB will be integrating to are configured appropriately.	In the documentation for each Oracle application, see the sections on integration with the RIB.
Information to gather for the installation	During the prerequisites steps there is information that should be note that will be used to configure the RIB during the installation process.
Install the RIB using one of these methods:	It is strongly recommended that the Installation using the RIB Installer GUI method be used.
<ul> <li>Installation using the RIB Installer GUI</li> </ul>	
<ul> <li>Installation using the RIB App Builder Command Line Tools.</li> </ul>	
Verify Application URL settings match RIB installation.	RIB Functional Artifact URL JNDI URL

Task	Notes
Complete the setup of RDMT using the same information to gather for the installation.	During either of the installation methods, one of the manual steps will have extracted the rdmt tools to the appropriate directory.
Verify the RIB installation using the RDMT tools.	
Install RIHA	RIB Hospital maintenance tool
Install IGS	This step is optional and should be performed only if there is a requirement to do so. See "Integration Gateway Services" in the <i>Oracle Retail Integration Bus Implementation Guide</i> .

## Prerequisite - Prepare WebLogic Server for RIB Components

Task	Notes
Install WebLogic Server 12.1.3	See the Oracle Retail Integration Bus Release Notes for the certifications. See the Oracle Retail Integration Bus Implementation Guide for deployment architectures.
Create the RIB WebLogic managed server instances. Warning: Each rib- <app> application requires a separate WebLogic managed server instance that is not shared with any other application. Create the</app>	For information about creating and managing WebLogic managed server instances, see Oracle® Fusion Middleware Administrator's Guide 12.1.3 Replace <app> with the actual value of the RIB application for the associated retail application. Acceptable values for <app> are "rms", "rwms", "tafr", "sim", "rpm", "rfm", "aip" and "oms." Port number must be a unique port. There are two RIB specific WebLogic instances that must be</app></app>
rib- <app>-wls-instance using WebLogic admin console GUI</app>	created regardless of the other application deployment choices.
Log in to the WebLogic admin console GUI (http:// <host>:<port>/consol</port></host>	<ul> <li>rib-func-artifact-wls-instance. (It is recommended, but not required, that this naming convention be followed.)</li> <li>These are the optional application instances depending on</li> </ul>
e) as administrator On the left side menu, navigate to Environment > Servers	<ul> <li>the deployment choices. It is recommended, but not required that this naming convention be followed:</li> <li>rib-rms-server</li> </ul>
Click New.	<ul> <li>rib-tafr-server</li> </ul>
Fill in the Name, Port, Listen address of the managed server instance to be create.	<ul> <li>rib-rpm-server</li> <li>rib-sim-server</li> <li>rib-rwms-server</li> </ul>
Example:	<ul> <li>rib-rfm-server</li> </ul>
Server Name: rib- <app>-wls-instance</app>	<ul> <li>rib-aip-server</li> </ul>
Server Listen Address: ribhost	<ul> <li>rib-oms-server</li> </ul>
Server Listen Port:19007	
Click Next. Click Finish.	
Make sure you see this instance listed under Servers.	

Task	Notes
Go to the configurations page of the server and select the host name in the Machine field.	
Click Save.	
Managed server instance creation is complete.	
Edit the script \$DOMAIN_	Sample from startWebLogic:
HOME/base_ domain/bin/startWebLogic.s h to add the following	echo "JAVA Memory arguments: \${MEM_ARGS}"
attributes.	
CLASSPATH=\$DOMAIN_ HOME/servers/\$SERVER_ NAME:\$CLASSPATH	echo "WLS Start Mode=\${WLS_DISPLAY_MODE}"
JAVA_	echo "."
OPTIONS="-Dweblogic.ejb.co ntainer.MDBMessageWaitTim e=2 \${JAVA_OPTIONS}"	JAVA_ OPTIONS="-Dweblogic.ejb.container.MDBMessageWaitTim e=2 \${JAVA_OPTIONS}"
	CLASSPATH=\$DOMAIN_HOME/servers/\$SERVER_ NAME:\$CLASSPATH
	echo "CLASSPATH=\${CLASSPATH}"
	echo "."
	echo "PATH=\${PATH}"
	echo "."
	echo "************************************
	echo "* To start WebLogic Server, use a username and *"
	echo "* password assigned to an admin-level user. For *"
	echo "* server administration, use the WebLogic Server *"
	<pre>echo "* console at http://hostname:port/console *"</pre>
	echo
	" * * * * * * * * * * * * * * * * * * *

Task	Notes
	Note:
	In the startWebLogic script, the above statements must be added before the WebLogic server is started. In other words, the statements must be before these lines:
	<pre>the statements must be before these lines: if [ "\${WLS_REDIRECT_LOG}" = "" ] ; then echo "Starting WLS with line:" echo "\${JAVA_HOME}/bin/java -d64 \${JAVA_VM} \${MEM_ARGS} -Dweblogic.Name=\${SERVER_NAME} -Djava.security.policy=\${WL_ HOME}/server/lib/weblogic.policy \${JAVA_OPTIONS} \${PROXY_SETTINGS} \${SERVER_CLASS}" #echo "\${JAVA_HOME}/bin/java -d64 \${JAVA_VM} \${MEM_ARGS} -Dweblogic.Name=\${SERVER_NAME} -Djava.security.policy=\${WL_ HOME}/server/lib/weblogic.policy \${JAVA_OPTIONS} \${PROXY_SETTINGS} \${SERVER_CLASS}" \${JAVA_HOME}/bin/java \${JAVA_VM} \${MEM_ARGS} -Dweblogic.Name=\${SERVER_ NAME} -Djava.security.policy=\${WL_ HOME}/server/lib/weblogic.policy \${JAVA_OPTIONS} \${PROXY_SETTINGS} \${SERVER_CLASS} else echo "Redirecting output from WLS window to \${WLS_REDIRECT_LOG}" #\${JAVA_HOME}/bin/java -d64 \${JAVA_VM} \${MEM_ARGS} -Dweblogic.Name=\${SERVER_NAME}</pre>
	-Djava.security.policy=\${WL_ HOME}/server/lib/weblogic.policy \${JAVA_OPTIONS}
	<pre>\${PROXY_SETTINGS} \${SERVER_CLASS} &gt;"\${WLS_ REDIRECT_LOG}" 2&gt;&amp;1</pre>
	<pre>\${JAVA_HOME}/bin/java \${JAVA_VM} \${MEM_ ARGS} -Dweblogic.Name=\${SERVER_NAME}</pre>
	-Djava.security.policy=\${WL_
	HOME}/server/lib/weblogic.policy \${JAVA_OPTIONS} \${PROXY_SETTINGS} \${SERVER_CLASS} >"\${WLS_ REDIRECT_LOG}" 2>&1
	fi

Task	Notes
Update \$WL_ HOME/ <wlserver>/server/li b/weblogic.policy file with the information below.</wlserver>	<b>Note</b> : If copying the following text from this guide to UNIX, ensure that it is properly formatted in UNIX. Each line entry beginning with "permission" must terminate on the same line with a semicolon.
	<b>Note</b> : <weblogic_domain_home> in the below example is the full path of the Weblogic Domain, <managed_server> is the RIB managed server created and <context_root> correlates to the rib-app ears for all managed servers hosting rib-apps, except for rib-func-artifact-instance. See the example below.</context_root></managed_server></weblogic_domain_home>
	<b>Note</b> : The path tmp/_WL_user/rib- <app>.ear will not be available before the deployment.</app>
	Example:
	grant codeBase "file:
	<weblogic_domain_home>/servers/<managed_ server&gt;/tmp/_WL_user/<context_root>/-" {</context_root></managed_ </weblogic_domain_home>
	permission java.security.AllPermission;
	permission oracle.security.jps.service.credstore.CredentialAccessPermis sion "credstoressp.credstore", "read,write,update,delete";
	permission oracle.security.jps.service.credstore.CredentialAccessPermis sion "credstoressp.credstore.*", "read,write,update,delete";
	};
	};
	<b>Note:</b> Add the path to the patch jars. If any patches are installed into WLS (now or in the future) and this line is not included it could cause the RIB to fail. WLS_HOME refers to the location where Weblogic 12.1.3 has been installed.
	grant codeBase "file:< <wls_home>/patch_wls/patch_ jars/-" {</wls_home>
	permission java.security.AllPermission; permission
	<pre>oracle.security.jps.service.credstore.CredentialAcc essPermission "credstoressp.credstore", "read,write,update,delete";</pre>
	<pre>permission oracle.security.jps.service.credstore.CredentialAcc essPermission "credstoressp.credstore.*", "read,write,update,delete";</pre>
	<pre>};</pre>
	};

Task	Notes
Start WebLogic managed server.	Sample nodemanager.properties file:
<b>Note:</b> This procedure can be done through the command line or through the admin console. Both methods are included below.	SecureListener=false StartScriptName=startWebLogic.sh StartScriptEnabled=true
Start WebLogic managed server through the command line:	
Log in to the machine where WLS was installed with the operating system user that was used to install the WebLogic Application Server (WLS).	
Navigate to the DOMAIN_ HOME/bin	
Example: \$cd product/ 15.0.0_RIB/WLS/user_ projects/domains/base_ domain/bin	
run startManagedWebLogic script with instance name as a parameter	
Example: sh startManagedWebLogic.sh rib-rms-wls-instance	
Starting WebLogic managed server through admin console.	
To be able to properly start RIB managed server instance, the properties below need to be modified in \$WL_ HOME/wlserver/common/n ode manager/nodemanager.	
properties file: Change the value of StartScriptEnabled property to	
true. Change the value of StartScriptName property to startWebLogic.sh	
Restart the NodeManager after making changes.	
Creating the WebLogic instances is complete.	

## Prerequisite - Oracle Database Schemas

Task	Notes
Each Oracle Retail Application has an	Each Application packages the RIB artifact creation scripts and they are installed at the time of the application's installation.
associated set of RIB Artifacts that must be installed as part of the RIB	It is critical to ensure that they have been installed and are the correct version.
integration. For example, the RIB Hospital Tables,	The TAFR Hospital is independent of any of the applications and should have a separate user/schema created for it.
CLOB API libraries, and Oracle Objects.	It is recommended that all applications have a separate Hospital and that they be logically and operationally
<ul> <li>Ensure that these have been installed appropriately per the individual applications.</li> </ul>	associated with that application.
<ul> <li>Ensure that the TAFR Hospital user and objects exist.</li> </ul>	
<ul> <li>Ensure that the RIB user has appropriate access and permissions.</li> </ul>	
Ensure that each PL/SQL application schema has run the RIB supplied scripts to create the RIB Artifacts:	Verify the XML Developer's Kit for PL/SQL is installed.
<ul> <li>1_KERNEL_CREATE_ OBJECTS.SQL script.</li> </ul>	
<ul> <li>InstallAndCompileAllRib OracleObjects.sql</li> </ul>	
<ul> <li>1_CLOB_CREATE_ OBJECTS.SQL (RMS only)</li> </ul>	
RMS Application: Verify that the row in the RIB_ OPTIONS table has correct values to match the RIB deployment environment.	XML_SCHEMA_BASE_URL= http:// <hostname>:<port>/rib-func-artifact;</port></hostname>
Ensure that each Java EE application schema has run the RIB supplied scripts to create RIB artifacts:	
<ul> <li>1_KERNEL_CREATE_ OBJECTS.SQL script.</li> </ul>	

Task	Notes
RIB TAFR RIB Hospital Ensure that the schema exists and has run the RIB supplied script to create the	In RIB 15.x, there is a separate hospital for all RIB TAFRs. Ensure that there is a user created for the RIB components and the scripts that create the hospital objects have been run. The TAFR Hospital user requires no special permissions.
RIB Hospital.	CREATE USER <tafr hosp="" user=""></tafr>
<ul> <li>1_KERNEL_CREATE_</li> </ul>	IDENTIFIED BY <tafr hosp="" password=""></tafr>
OBJECTS.SQL script.	DEFAULT TABLESPACE "USERS" TEMPORARY TABLESPACE "TEMP";
	GRANT "CONNECT" TO <tafr hosp="" user="">;</tafr>
	GRANT "RESOURCE" TO <tafr hosp="" user="">;</tafr>
	ALTER USER <tafr hosp="" user=""></tafr>
	QUOTA UNLIMITED ON USERS;

## Prerequisite - Prepare Oracle AQ JMS Provider

Task	Notes
Create the Oracle Database instance that will be the JMS Provider.	Oracle Streams AQ is provided by the Oracle Database Enterprise Edition installation.
	<b>Note:</b> It is strongly recommended that the Oracle Database instance that is configured to be the JMS provider is not shared with any other applications and not be on the same host (physical or logical) with any other applications.
	See "Deployment Architecture" in the <i>Oracle Retail Integration Bus Implementation Guide</i> .
Create the AQ JMS user	Sample script:
with the appropriate access and permissions to the Oracle Streams AQ packages. This user must have at least the following database permissions.	CREATE USER <rib aq="" user=""> IDENTIFIED BY <rib aq<br="">password&gt; DEFAULT TABLESPACE "RETAIL_DATA" TEMPORARY TABLESPACE "TEMP"; GRANT "CONNECT" TO <rib aq="" user="">; GRANT "RESOURCE" TO <rib aq="" user="">;</rib></rib></rib></rib>
<ul> <li>CONNECT</li> </ul>	GRANT CREATE SESSION TO <rib aq="" user="">;</rib>
<ul> <li>RESOURCE</li> </ul>	GRANT EXECUTE ON "SYS"."DBMS_AQ" TO <rib aq="" user="">; GRANT EXECUTE ON "SYS"."DBMS_AQADM" TO <rib aq="" user="">;</rib></rib>
<ul> <li>CREATE SESSION</li> </ul>	GRANT EXECUTE ON "SYS"."DBMS_AQIN" TO <rib aq="" user="">;</rib>
<ul> <li>EXECUTE ON SYS.DBMS_AQ</li> </ul>	GRANT EXECUTE ON "SYS"."DBMS_AQJMS" TO <rib aq="" user="">; GRANT "AQ_ADMINISTRATOR_ROLE" TO <rib aq="" user="">; ALTER USER <rib aq="" user=""></rib></rib></rib>
EXECUTE ON     SYS.DBMS_AQADM	QUOTA UNLIMITED ON RETAIL_DATA;
<ul> <li>EXECUTE ON SYS.DBMS_AQIN</li> </ul>	
<ul> <li>EXECUTE ON SYS.DBMS_AQJMS</li> </ul>	

Information	Notes
jms-server-home	JMS Provider for RIB Release 15.0.0 is AQ.
jms-url	<ul> <li>jms-server-home: The server home must be in the format OsUser@AqHostName:/AqHomeDirectory</li> </ul>
jms-port jms-user jms-password	For example, ribaq@ribaq-lnx-host:/u00/db "jms-url : AQ thin JDBC connection URL.
	For example, jdbc:oracle:thin:@ribaq-Inx-host:1521:orcl On AQ on RAC database use the long JDBC URL (for example, jdbc:oracle:thin:@(DESCRIPTION =(ADDRESS_LIST =(ADDRESS = (PROTOCOL = TCP)(HOST = ribaq-Inx-virtual-host-1)(PORT = 1521))(ADDRESS = (PROTOCOL = TCP)(HOST = ribaq-Inx-virtual-host-2)(PORT = 1521))(LOAD_ BALANCE = yes))(CONNECT_DATA =(SERVICE_ NAME = orcl)))
	<ul> <li>jms-port: AQ JMS server listener port. This is same as the AQ JDBC listener port (for example, 1521).</li> </ul>
	<ul> <li>jms-user: AQ JMS user. This is the database user that can connect to jms-url (see above).</li> </ul>
	<ul> <li>jms-password: AQ JMS password. This is the database password that can connect to jms-url.</li> </ul>
weblogic-domain-name	For each of the WebLogic Servers to which the RIB components will be deployed.
weblogic-domain-home	<ul> <li>weblogic-domain-name: Your weblogic domain name (for example, base_domain).</li> </ul>
weblogic-domain-server -port java-home	<ul> <li>weblogic-domain-home: The format of the home must follow the format OsUser@WeblogicHostName:/WeblogicDomainPath. For example: ribapp@ribapp-lnx-host:/home/Oracle/Middleware/us er_projects/domains/base_domain</li> </ul>
	<ul> <li>weblogic-admin-server-port: The port where weblogic admin server is listening (for example, 7001)</li> </ul>
	<ul> <li>java-home : Java Home directory of the remote Weblogic server (for example, /usr/java/jdk1.7.0_05)</li> </ul>
wls-instance-name	The WebLogic instances for each of your rib- <app> applications that are in-scope.</app>
wls-instance-home wls-listen-port wls-user-alias	<ul> <li>wls-instance-name: The WebLogic managed server instance name. For example, rib-rms will be deployed in rib-rms-server.</li> </ul>
	<ul> <li>wls-instance-home: The WebLogic instance server home information. For example, ribapp@ribapp-lnx-host:/home/ Oracle/Middleware/user_projects/domains/base_ domain /servers/rib-rms-server</li> </ul>
	<ul> <li>wls-listen-port: The WebLogic managed server listen port. For example, 7003.</li> </ul>
	<ul> <li>wls-user-alias: User alias for username/password to connect to the WebLogic managed server. The username/password are stored in a wallet file in rib-home/deployment-home/conf/security folder and the rib-deployment-env-info.xml contains the alias name for that. The user name/password to connect to the managed server will be same as the user who starts the WebLogic server.</li> </ul>

Information	Notes
To configure each rib- <app>, this information is needed for each.</app>	<ul> <li>The application server where it will be deployed.</li> <li>RIB Hospital database information.</li> <li>PL/SQL application database information.</li> <li>E-mail notification information.</li> <li>jndi information for Java EE applications.</li> </ul>
For RIB Hospital database: database/url <database user=""> <database password=""></database></database>	<ul> <li>database/url: rib-<app> error hospital thin JDBC connection URL. For example, jdbc:oracle:thin:@ribapp-lnx-host:1521:orcl If RIB Hospital tables are running on RAC database use the long JDBC url format. For example, jdbc:oracle:thin:@(DESCRIPTION =(ADDRESS_LIST =(ADDRESS = (PROTOCOL = TCP)(HOST = ribapp-lnx-virtual-host-1)(PORT = 1521))(ADDRESS = (PROTOCOL = TCP)(HOST = ribapp-lnx-virtual-host-2)(PORT = 1521))(LOAD_BALANCE = yes))(CONNECT_DATA =(SERVICE_NAME = orcl)))</app></li> <li><database user="">: This is the database user that will be used to connect to rib-<app> error hospital tables.</app></database></li> <li><database password="">: This is the database password that will be used to connect to rib-<app> error hospital tables.</app></database></li> </ul>
For PL/SQL application database: database/url < <i>database user&gt;</i> < <i>database password&gt;</i> For email notifications: email-server-host email-server-port from-address to-address-list	<ul> <li>See samples in the row above for RIB Hospital Database.</li> <li>email/email-server-host: The SMPT mail server (for example, mail.yourcompany.com)</li> <li>email/email-server-port: The SMTP mail server port. (for example, 25)</li> <li>email/from-address: The email address from which the RIB notifications will originate (for example, ribadmin@example.com)</li> <li>email/to-address-list: Comma separated list of destination email address to which RIB notifications will be sent (for example,ribappsadmin1@example.com, ribappsadmin2@example.com)</li> </ul>
joined information for Java EE applications: jndi/url jndi/factory jndi/user jndi/password	<ul> <li>jndi/url: The JNDI url for the retail <app> that this rib-<app> is connecting to. The URLs must use the following format.</app></app></li> <li>WLS URL format:t3://host:port/applicationName</li> <li>For example, t3://simhost.example.com:18022/rib-sim.</li> <li>jndi/factory: The JNDI provider factory class name. The factory must be one of the following.</li> <li>WLS factory: weblogic.jndi.WLInitialContextFactory</li> <li>jndi/user: The retail <app> JNDI user name. This is the same as the retail <app> WLS server instance user name.</app></app></li> <li>jndi/password: The retail <app> JNDI password. This is same as the retail <app> WLS server instance password. For example, weblogic (must be encrypted)</app></app></li> </ul>

## Install Using the RIB Installer GUI

Task	Notes
Make sure that the JAVA_ HOME environment variable is set for the user that will be performing these tasks.	Example: export JAVA_HOME=/usr/bin/java/1.7.0_75.
> echo \$JAVA_HOME	
/usr/bin/java/1.7.0+64 bit with latest security updates.	
Make sure that all RIB WebLogic instances that are to be deployed to are running.	
Determine the host and file system to create the rih app builder home	See the Oracle Retail Integration Bus Implementation Guide for guidelines and deployment approaches.
rib-app-builder home directory on. > mkdir rib-app-builder	This is an important strategic decision, because all RIB configurations and management for a given deployment will be from this single, central location.
Download and extract the RibKernel <rib_major_ VERSION&gt;ForAll<retail _APP_VERSION&gt;Apps_ eng_ga.tar.</retail </rib_major_ 	Copy the latest version to the rib-app-builder and then extract it to build your rib-home. This rib-home will be the directory from where you will perform all rib- <app> related tasks from now on.</app>
> tar xvf RibKernel15.0.0ForAll15.x.x Apps_eng_ga.jar	
Download the RibFuncArtifact <rib_ {MAJOR   MINOR}_ VERSION&gt;ForAll<retail _APP_VERSION&gt;Apps_ eng_ga.tar and put it in rib-home/download-home /rib-func-artifacts directory.</retail </rib_ 	Do not extract the tar file. This will be done by the check-version-and-unpack tool.
Download all the RibPak <rib_ {MAJOR   MINOR}_ VERSION&gt;For<retail_ APP_NAME&gt;<retail_ APP_VERSION&gt;_eng_ ga.tar and put it in rib-home/download-home / all-rib-apps directory.</retail_ </retail_ </rib_ 	Do not extract the tar file. This will be done by the check-version-and-unpack tool.
Return to the root rib-home directory.	
Execute rib-installer.sh	For installations using a remote client (x-term) set the
>./rib-installer.sh	DISPLAY variable appropriately first.
This will start the x-term GUI.	> export DISPLAY=[desktop IP]:0.0 Make sure that your local machine has an X-server (such as Exceed) running.

Task	Notes
Verify Application URL settings match RIB installation.	RIB Functional Artifact URL JNDI URL
Bounce all rib- <app>-wls server instances.</app>	During the installation a shared library is created that contains the JDBC Driver update. It is necessary to bounce the instance.
Verify the installation using RDMT.	

## Install Using the RIB App Builder Command Line Tools

Task	Notes
Make sure that the JAVA_ HOME environment variable is set for the user that will be performing these tasks. > echo \$JAVA_HOME	Example: export JAVA_HOME=/usr/bin/java/jdk1.7.0_ 75
/usr/bin/java/jdk1.7.0_75	
Make sure that all RIB WebLogic instances that are to be deployed to are running.	
Determine the host and file system to create the rib-app-builder home directory on. > mkdir rib-app-builder	See the Oracle Retail Integration Bus Implementation Guide for guidelines and deployment approaches. This is an important strategic decision, because all RIB configurations and management for a given deployment will be from this single, central location.
Download and extract the RibKernel <rib_major_ VERSION&gt;ForAll<retail _APP_VERSION&gt;Apps_ eng_ga.tar.</retail </rib_major_ 	Copy the latest version to the rib-app-builder and then extract it to build your "rib-home." This "rib-home" will be the directory from where you will perform "all" the rib- <app> related tasks from now on.</app>
> tar xvf RibKernel15.0.0ForAll15.x.x Apps_eng_ga.jar	
Download the RibFuncArtifact <rib_ MAJOR_ VERSION&gt;ForAll<retail _APP_VERSION&gt;Apps_ eng_ga.tar and put it in rib-home/download-home /rib-func-artifacts directory.</retail </rib_ 	Do not extract the tar file. This will be done by the check-version-and-unpack tool.
Download the RibPak <rib_major_ VERSION&gt;For<retail_ APP_NAME&gt;<retail_ APP_VERSION&gt;_eng_ ga.tar and put it in rib-home/download-home /all-rib-apps directory.</retail_ </retail_ </rib_major_ 	Do not extract the tar file. This will be done by the check-version-and-unpack tool.

Task	Notes
Run the rib-home/download-home /bin/check-version-and-un pack.sh script from rib-home/download-home /bin directory.	This script verifies the version compatibility between the paks and extract the files if they are compatible.
Edit rib-home/deployment-hom e/conf/rib-deployment-en v-info.xml file to specify the deployment environment information. See the "Information to Gather for Installation in Remote Server" section before starting the edit.	<ul> <li>This file (rib-deployment-env-info.xml) is the only file that the user has to edit. See the "Rib-app-builder documentation" for details and examples.</li> <li>The XML file has four major sections.</li> <li><b>1.</b> app-in-scope-for-integration section: In this section you define what applications are in scope for this environment.</li> <li><b>2.</b> rib-jms-server section: In this section you define the JMS server information. <b>Note:</b> See also"Preinstallation Steps for Multiple JMS Server Setup" in Chapter 4 of this guide.</li> <li><b>3.</b> rib-javaee-containers section: In this section you define the "Java EE container information" for each of the rib-<app> that are in scope.</app></li> <li><b>4.</b> rib-applications section: In this section you define the rib-<app> specific information for each of the rib-<app> specific information for each of the rib-<app> that are in scope.</app></app></app></li> <li><b>5.</b> For PL/SQL applications you must define RIB RIB Hospital connection and email notification information. For Java EE applications you will need to define RIB HOSPITAL connection, email notification information and the connecting retail application's (for example, <app>) JNDI information.</app></li> </ul>
Edit the app-in-scope-for-integratio n section to match the desired deployment.	Define what application are in scope for this environment. <app-in-scope-for-integration> <app id="rms" type="plsql-app"></app> <app id="sim" type="javaee-app"></app> <app id="rwms" type="plsql-app"></app> <app id="rpm" type="plsql-app"></app> <app id="rfm" type="plsql-app"></app> <app id="rfm" type="plsql-app"></app> <app id="aip" type="plsql-app"></app> <app id="aip" type="plsql-app"></app> <app id="aip" type="plsql-app"></app> <app id="oms" type="soap-app"></app> </app-in-scope-for-integration>
Edit the rib-jms-server section.	For AQ:
See "Preinstallation Steps for Multiple JMS Server Setup"in Chapter 4 of this guide.	<pre><jms-server-home>linux1@linux1:/home/oracle/oracle /product/12.1.0.2/db_1</jms-server-home> <jms-url>jdbc:oracle:thin:@linux1:1521:ora12c</jms-url></pre>
	<jms-port>1521</jms-port> <jms-user-alias>aq1-alias</jms-user-alias>

Task	Notes
Edit the application server	For example:
section	<weblogic-domain-name>base_ domain</weblogic-domain-name>
	<weblogic-domain-home>user1@linux1:/home/user1/Or acle/Middleware/user_projects/domains/base_ domain</weblogic-domain-home>
	<weblogic-admin-server-port>7001</weblogic-admin-server-port>
	<java-home>/usr/java/jdk1.7</java-home>
Configure the WebLogic	<wls id="rib-rms-server"></wls>
instances for each of your rib- <app> applications that are in scope.</app>	<wls-instance-name>rib-rms-server</wls-instance-name>
ure in scope.	<wls-instance-home>soa1@linux1:/home/soa1/Oracle/ Middleware/user_projects/domains/base_ domain/servers/rib-rms-server</wls-instance-home>
	<wls-listen-port protocol="http">7003</wls-listen-port>
	<wls-user-alias>rib-rms-wls-user-alias</wls-user-alias>
Configure the rib-applications section: In this section you define	For PL/SQL applications you must define the RIB Hospital connection, application database connections, and email notification information.
the rib- <app> specific information for each rib-<app> that in scope.</app></app>	<rib-app id="rib-rms" type="plsql-app"> <deploy-in refid="rib-rms-wls-instance"></deploy-in> <error-hospital-database></error-hospital-database></rib-app>
	<hospurl>jdbc:oracle:thin:@rmsdbhost.example.com: 1521:orcl </hospurl>
	<hosp-user-alias>rib-<app>_</app></hosp-user-alias>
	error-hospital-database_ user-name-alias
	<pre></pre>
	<app-database></app-database>
	<pre><app-db-url>jdbc:oracle:thin:@rmsdbhost.example app.</app-db-url></pre>
	.com: 1521:orcl
	<pre><app-db-user-alias>rib-<app>_app-database_</app></app-db-user-alias></pre>
	user-name-alias 
	<notifications></notifications>
	<email></email>
	<email-server-host>mail.oracle.com</email-server-host>
	<pre>cemail-server-port&gt;25</pre>
	<pre><from-address>admin@example.com</from-address></pre>
	<to-address-list>admin@example.comt&gt;</to-address-list>
	<jmx></jmx> 

Task	Notes
	<pre><rib-app id="rib-rms" type="plsql-app"></rib-app></pre>
	<pre><deploy-in refid="rib-rms-server"></deploy-in></pre>
	<pre><rib-admin-gui></rib-admin-gui></pre>
	<pre><web-app-url>http://linux1:7003/rib-rms-admin-gui</web-app-url></pre>
	/web-app-url>
	<pre><web-app-user-alias>rib-rms_rib-admin-qui_</web-app-user-alias></pre>
	<pre>web-app-user-alias</pre>
	<pre></pre>
	<pre><app-database></app-database></pre>
	<app-db-url>jdbc:oracle:thin:@rmsdbhost.example.c</app-db-url>
	m:1521:orribdb
	<app-db-user-alias>rib-rms_app-database_</app-db-user-alias>
	user-name-alias
	<pro><pro>error-hospital-database&gt;</pro></pro>
	<pre><hosp-url>jdbc:oracle:thin:@rmsdbhost.example.com</hosp-url></pre>
	1521:orribdb
	<pre><hosp-user-alias>rib-rms_error-hospital-database_</hosp-user-alias></pre>
	user-name-alias
	<notifications></notifications>
	<email></email>
	<pre><email-server-host>mail.oracle.com</email-server-host></pre>
	<pre><email-server-port>25</email-server-port></pre>
	<pre><from-address>admin@example.com</from-address></pre>
	<to-address-list>admin@example.com</to-address-list>
	t>
	<pre></pre>
	<app id="rms" type="plsql-app"></app>
	<jndi-not-applicable></jndi-not-applicable>
	For Java EE applications, you must define RIB admin GU information, RIB Hospital connection, email notification information, and the connecting retail application's ( <app>) JNDI information.</app>

Task	Notes
	For SOAP application, you must define the RIB Admin GUI information, RIB Hospital connection, email notification information, and the end point application url information.
	<app id="oms" type="soap-app"> <end-point> <url>http://host:port/RibOmsToRsbOmsRouting-Servic esIntegrationFlow/ProxyService/RibOmsToRsbOmsRouti ngService</url> <!-- Do we want this location or derive by<br-->default?&gt; <!-- TODO : We need pick the ws policy from this<br-->location and push the policy to server&gt; <ws-policy-name>policyB</ws-policy-name> <user-alias>rib-oms_ws_security_ user-name-alias</user-alias> </end-point></app>
Run the rib-home/application-asse mbly-home/bin/rib-app-co mpiler.sh script with setup-security-credential from	This will ask for user name and password information for aliases provided in the rib-deployment-env-info.xml file. The user names and passwords are stored in a wallet file inside rib-home/deployment-home/conf/security directory.
rib-home/application-asse mbly-home/bin directory.	After that this will generate/assemble a rib- <app> and make it ready for deployment</app>
Example:	
./rib-app-compiler.sh -setup-security-credential	
The RIB apps are now ready to deploy.	This script is located in the rib-home/deployment-home/bin directory.
Execute the rib-home/deployment-hom e/bin/rib-app-deployer.sh script with the appropriate command line parameter.	
> rib-app-deployer.sh -prepare-jms	This creates a new JMS server with all RIB configured topics.
>rib-app-deployer.sh	This verifies:
-verify-error-hospital rib- <app></app>	<b>1.</b> Error-hospital database configurations by testing the connection to the database.
	<b>2.</b> If the error-hospital tables are created in the schema.
	Note: Database must be already running.
> rib-app-deployer.sh -deploy-rib-func-artifact- war	This deploys the rib-func-artifact.war to the Java EE container.
> rib-app-deployer.sh -deploy-rib-app-ear rib- <app></app>	This deploys the rib- <app> to the Java EE container. Repeat this step for all rib-<app> that is in scope for this integration environment.</app></app>
	<b>Note:</b> <app> must be rms, rwms, tafr, sim, rpm, or aip.</app>
Bounce all of the rib- <app>-wls-instances.</app>	During the installation a shared library is created that contains the JDBC Driver update. It is necessary to bounce the wls instance.

Task	Notes
Verify Application URL settings match RIB installation.	RIB Functional Artifact URL JNDI URL
Verify the installation using RDMT	

## **RDMT** - Information to Gather

The following are necessary directory parameters.

RDMT Home Directory	Rib1500ForAll15xxApps/rib-home/tools-home/rdmt/
RDMTLOGS Directory	Rib1500ForAll15xxApps/rib-home/tools-home/rdmt /RDMTLOGS
Temp Files Directory	Rib1500ForAll15xxApps/rib-home/tools-home/rdmt /RDMTLOGS/tmp
RIB App Builder rib-home Directory	/u00/Rib1500ForAll15xxApps/rib-home

The following are parameters for JMS Provider.

AQ JMS User ID	<rib aq="" user=""></rib>
AQ JMS Password	<rib aq="" password=""></rib>
AQ JMS Database Name	soal
JMS HOST	jmshost.example.com
JMS PORT	1521

The following are WebLogic parameters for JMX functions.

WebLogic/JMX Host	wlshost.example.com
JMX Req Port	7003
WebLogic Instance name	rib-rms-wls-instance
WebLogic App Name	rib-rms
WebLogic User Name	<weblogic user=""></weblogic>
WebLogic Password	<weblogic password=""></weblogic>

The following are parameters for each hospital (RMS, RWMS, SIM, and others).

User Name	<rms user=""></rms>
Password	<rms password=""></rms>
Database (SID)	orcl
Database Host	dbhost.example.com
Listener Port	1521

## **RDMT** - Installation

The following are the steps required to complete RDMT installation.

Task	Notes
Make sure that the Java path is set Java 7.0. > java -version	The RDMT Java support classes require Java 7.0, and installation will perform a check and fail if the path is not correct. Prior to the installation, verify that your Java version is correct.
Download the Rdmt15.0.0ForAll15.x.x Apps_eng_ga.tar.	The recommended location is in rib-home/tools-home directory. There is an empty rdmt subdirectory already there. This is only a placeholder. RDMT can be installed under any user in any directory.
Extract the tar file. > tar xvf Rdmt15.0.0ForAll15.x.x Apps_eng_ga.tar	Extract the tar file. It will create or over-write a directory call rdmt.
Execute the configbuilder.sh script. > ./configbuilder.sh	cd to the rdmt directory and execute the configbuilder.sh script supplied with the toolkit.
If rdmt is extracted under rib-home, it updates the necessary rdmt configuration files if installed under rib-home/tools-home/rdmt directory.	The configbuilder.sh script checks if rdmt is installed under rib-home. If so, it fetches and updates all the necessary configuration information from rib-deployment-env-info.xml present under rib-home/deployment-home/conf directory. Also, it configures for all the rib- <app>s depending upon the applications in scope as defined in rib-deployment-env-info.xml.</app>
If rdmt is extracted in some other directory outside rib-home, it updates the necessary rdmt configuration files if installed in some other directory with rib-home present on same server.	Once prompted for rib-home path, provide the same and it fetches and updates all the necessary configuration information from rib-deployment-env-info.xml present under specified rib-home/deployment-home/conf directory. Also, it configures for all the rib- <app>s depending upon the applications in scope as defined in rib-deployment-env-info.xml.</app>
If rdmt is extracted in a remote server with no rib-home present, answer prompts for RIB configuration values during Setup if installed in a remote server with no rib-home present on that server.	The installation script will prompt for the configuration settings need to run the tools in the toolkit (See the section, "Information to Gather for Installation in Remote Server", in this manual.) <b>Note:</b> After the installation, these configurations can be changed at any time via any text editor in the appropriate configuration file.
Answer prompts for the additional JMX configurations. Answer yes to configure additional rib-apps in case of remote installation.	After prompting for the necessary configuration parameters, the setup script updates the various configuration files and then prompts the user for additional JMX configurations that the user will be interested in. It is recommended that you configure all the rib-apps that have been installed in the RIB Installation process and then run the RibConfigReport. This report will run a battery of tests that will validate the RIB components installed.

Task	Notes
The configbuilder.sh script will set the permissions to 700 (-rwx) on all tools and files within the rdmt directory structure.	There are configurations that contain passwords.
Run Configuration Report	This report will execute using all of the configuration parameter that have been supplied and will verify them against the RIB installation
Installation is complete.	

## **RIB Hospital Administration (RIHA) - Installation**

Task	Notes
Verify the JRE Installed on server/PC where RIHA will be installed.	The minimum and preferred Java Runtime Engine (JRE) version to use with RIHA is 1.7.
The RIB XSDs must be made network-accessible for RIHA to properly display RIB messages.	The RIB Functional Artifact URL (for example, http://ribhost.example.com:7777/rib-func-artifact/payload/x sd/) should be accessible to all RIHA users.
Verify RIHA version is compatible with RIB version.	Due to changes in the underlying RIB architecture RIHARelease 15.0.0 is compatible only with RIB15.0.X and higher.
Verify ADF runtime 12.1.3 is available in the WebLogic 12.1.3 domain where RIHA will be installed.	RIHA model and view components needs ADF runtime to function properly.
Ensure the Firefox browser version is 3.5 or higher.	RIHA GUI works better in Firefox version 3.5 or higher.
Deploy EAR	

The following is a checklist for Oracle Retail RIHA installation.

Task	Notes				
RIHA app can be deployed	Ste	eps to deploy riha app from rib-home:			
from rib-home	1.	Download the RibHospitalAdministration-Web-15.0.0ForAll15.x.xApps_ eng_ga.tar and extract it to RIB_ INSTALL/rib-home/tools-home			
	2.	Navigate to the location rib-home/tools-home/riha/conf			
	3.	Edit the riha-deployment-env-info.properties with riha-admin-server-connection-url value			
	4.	Compiling the riha-app by executing tools-home/riha/bin: ./riha-app-compiler.sh -setup-security-credential			
	5.	Prepare weblogic for riha deployment by executing ( Creating Datasource for no of apps in scope of rib-deployment info xml) tools-home/riha/bin: ./riha-app-deployer.sh -prepare-wls			
	6.	Deployment by executing tools-home/riha/bin: ./riha-app-deployer.sh -deploy-riha-app			
	7.	Undeploying by executing tools-home/riha/bin: ./riha-app-deployer.sh -undeploy-riha-app			
		Note:			
		<ol> <li>The target server name where RIHA app should be deployed in riha-deployment properties</li> </ol>			
		For example:			
		riha-wls-target-name=AdminSer ver - Means riha app will deploys to 'AdminServer' riha-wls-target-name=m1 - Means riha app will deploys to Managed Server 'm1' 2. The cluster name where RIHA app should be deployed			
		For example:			
		riha-wls-target-name=no_ cluster - Means riha app will deploys to target name given for the property riha-wls-target-name riha-wls-target-name=New_ Cluster_1 - Means riha app will deploys to cluster named New_Cluster_1			
Log in to the WebLogic Console	Log in to the WebLogic server console where RIHA will be installed.				
Post Deployment Configuration					
Test Deployment	1.	In the left pane, select Deployments > Applications.			
	<b>2.</b> Select the installed RIHA application.				
	3.	Select Context > Test.			

## Integration Gateway Services (IGS) Installation - Information to Gather

The following are the details for the RIB AQ JMS.	
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Field Name	Example	Comment
Database Name	ora12c	AQ Database instance name
Host Name	linux1.us.oracle.com	Database system
Port	1521	Database listener port
Database User Name	<rib aq="" user=""></rib>	AQ user
Password	<rib aq="" password=""></rib>	AQ user password

## **IGS - Installation (Optional)**

Task	Notes
Install IGS component.	This component is optional and should be installed only if there is a requirement to do so. See "Integration Gateway Services" in the Oracle Retail Integration Bus Implementation Guide.
Prepare Oracle WebLogic Server	Prerequisite. Work with System and Application administrators on appropriate deployment. See "Integration Gateway Services" in the <i>Oracle Retail Integration Bus</i> <i>Implementation Guide</i> .
Create IGS WebLogic Server	The igs-service.ear file should be deployed on its own WebLogic server.
	When naming the WebLog instance, it is recommended (but not required) that the .ear file name is used (without the extension), along with underscore, wls_instance.
	For example, if the .ear file name is igs-service.ear, the instance name would be igs-service_wls_instance.
Prepare to deploy the IGS application:	The recommended location is rib-home/tools-home directory. There is an empty integration-bus-gateway-services subdirectory already there. This is only a placeholder.
Download the IntegrationGatewayService 15.0.0ForAll15.0.0Apps_ eng_ga.tar	
Extract the tar file	>tar -xvf
	$Integration Gateway Service 15.0.0 For All 15.0.0 Apps\_eng\_ga.tar$
Modify the IgsConfig.properties file	Update the WlsUrl property in this file to the WebLogic URL where IGS is going to be deployed.
	For example, t3://igshost.example.com:18001
	Update the WlsTarget property in this file tothe name of the WebLogic instance to which it will be deployed.
	For example, igs-service-wls-instance
Install IGS	Run the igs-install.sh located under rib-home/tools-home/integration-bus-gateway-services/bin
	The script will prompt for the WebLogic user name and password.
	The script will configure the server and install IGS.

## **IGS - Verify Installation**

Task	Notes	
Verify the IGS Application installation using the Administration Console.	For the Test Client link to be visible the server must be in Development mode.	
	For more detailed verification testing, see Chapter 4, "Integration Gateway Service (IGS) Testing," in the Oracle Retail Integration Guide Operations Guide.	
Navigate to Deployments page.	Navigate to the Deployments page. On the Summary of Deployments page, locate the igs-service on. Click the plus sign next to the ig-service to expand the tree. Locate the Web Services section.	
Click any Web service to move to <b>Settings for</b> <b>ASNInPublishingService</b> page.	For example, ASNInPublishingService.	
Select the Testing tab.	Click the + next to the service name to expand the tree.	
	Locate the <b>Test Client</b> link. Select to move to the <b>WebLogic</b> <b>Test Client</b> page.	
Select <b>Ping</b> operations.	Select the <b>Ping</b> operation. Fill in test data in the string arg0: text box. Click <b>Ping</b> .	
	The test page will show the request message and the response message.	

D

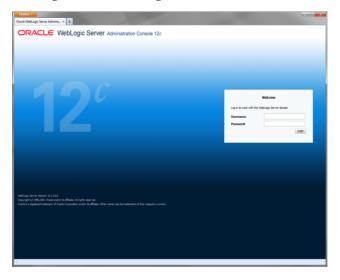
# Appendix: Changing the RIB Admin GUI Password

This appendix describes the steps required to change the RIB Admin GUI password.

### **Procedure**

To change the RIB Admin GUI password, complete the following steps.

1. Log in to the WebLogic Server Administration Console.



2. In the left panel, click the Security Realms link.

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Click the Lock & Edit button to modify, add or delete items in this domain.	Summary of Security Realms			
Lock & Edt Release Configuration	A security realm is a container for the mechanisms-including users, groups security realms in a WebLogic Server domain, but only one can be set as the This Security Realms page lats each security realm that has been configure	e default (active) realm.		es. You can have multiple
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**3.** Click the realm name. Go to the Users and Groups tab.

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	rbrmsadmin	RIB Admin user.	DefaultAuthenticator
tow do I E		RIB Admin user.	DefaultAuthenticator
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**4.** Click the user name for which you want to change the password.

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5. Click the **Passwords** tab.

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6. Enter the new password. Click Save.

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# Appendix: configWss.py

This appendix includes a code sample for configWss.py.

```
userName = sys.argv[1]
passWord = sys.argv[2]
url="t3://"+sys.argv[3]+":"+sys.argv[4]
print "Connect to the running adminSever"
connect(userName, passWord, url)
edit()
startEdit()
#Enable assert x509 in SecurityConfiguration
rlm = cmo.getSecurityConfiguration().getDefaultRealm()
ia = rlm.lookupAuthenticationProvider("DefaultIdentityAsserter")
activeTypesValue = list(ia.getActiveTypes())
existed = "X.509" in activeTypesValue
if existed == 1:
 print 'assert x509 is aleady enabled'
else:
  activeTypesValue.append("X.509")
ia.setActiveTypes(array(activeTypesValue, java.lang.String))
ia.setDefaultUserNameMapperAttributeType('CN');
ia.setUseDefaultUserNameMapper(Boolean('true'));
#Create default WebServcieSecurity
securityName='default_wss'
defaultWss=cmo.lookupWebserviceSecurity(securityName)
if defaultWss == None:
 print 'creating new webservice security bean for: ' + securityName
 defaultWss = cmo.createWebserviceSecurity(securityName)
else:
 print 'found exsiting bean for: ' + securityName
#Create credential provider for DK
cpName='default dk cp'
wtm=defaultWss.lookupWebserviceCredentialProvider(cpName)
if wtm == None:
wtm = defaultWss.createWebserviceCredentialProvider(cpName)
wtm.setClassName('weblogic.wsee.security.wssc.v200502.dk.DKCredentialProvider')
wtm.setTokenType('dk')
cpm = wtm.createConfigurationProperty('Label')
cpm.setValue('WS-SecureConversationWS-SecureConversation')
cpm = wtm.createConfigurationProperty('Length')
cpm.setValue('16')
```

```
print 'found exsiting bean for: DK ' + cpName
#Create credential provider for x.509
cpName='default_x509_cp'
wtm=defaultWss.lookupWebserviceCredentialProvider(cpName)
if wtm == None:
wtm = defaultWss.createWebserviceCredentialProvider(cpName)
wtm.setClassName('weblogic.wsee.security.bst.ServerBSTCredentialProvider')
wtm.setTokenType('x509')
else:
  print 'found exsiting bean for: x.509 ' + cpName
#Custom keystore for xml encryption
cpName='ConfidentialityKeyStore'
cpm=wtm.lookupConfigurationProperty(cpName)
if cpm == None:
cpm = wtm.createConfigurationProperty(cpName)
keyStoreName=sys.argv[5]
cpm.setValue(keyStoreName)
cpName='ConfidentialityKeyStorePassword'
cpm=wtm.lookupConfigurationProperty(cpName)
if cpm == None:
cpm = wtm.createConfigurationProperty(cpName)
cpm.setEncryptValueRequired(Boolean('true'))
KeyStorePasswd=sys.argv[6]
cpm.setEncryptedValue(KeyStorePasswd)
cpName='ConfidentialityKeyAlias'
cpm=wtm.lookupConfigurationProperty(cpName)
if cpm == None:
cpm = wtm.createConfigurationProperty(cpName)
keyAlias=sys.argv[7]
cpm.setValue(keyAlias)
cpName='ConfidentialityKeyPassword'
cpm=wtm.lookupConfigurationProperty(cpName)
if cpm == None:
cpm = wtm.createConfigurationProperty('ConfidentialityKeyPassword')
cpm.setEncryptValueRequired(Boolean('true'))
keyPass=sys.argv[8]
cpm.setEncryptedValue(keyPass)
#Custom keystore for xml digital signature
cpName='IntegrityKeyStore'
cpm=wtm.lookupConfigurationProperty(cpName)
if cpm == None:
cpm = wtm.createConfigurationProperty(cpName)
keyStoreName=sys.argv[5]
cpm.setValue(keyStoreName)
cpName='IntegrityKeyStorePassword'
cpm=wtm.lookupConfigurationProperty(cpName)
if cpm == None:
cpm = wtm.createConfigurationProperty(cpName)
cpm.setEncryptValueRequired(Boolean('true'))
KeyStorePasswd=sys.argv[6]
cpm.setEncryptedValue(KeyStorePasswd)
cpName='IntegrityKeyAlias'
cpm=wtm.lookupConfigurationProperty(cpName)
```

```
if cpm == None:
cpm = wtm.createConfigurationProperty(cpName)
keyAlias=sys.argv[7]
cpm.setValue(keyAlias)
cpName='IntegrityKeyPassword'
cpm=wtm.lookupConfigurationProperty(cpName)
if cpm == None:
cpm = wtm.createConfigurationProperty(cpName)
cpm.setEncryptValueRequired(Boolean('true'))
keyPass=sys.argv[8]
cpm.setEncryptedValue(keyPass)
```

# Create token handler for x509 token

```
#cpName='default_x509_handler'
th=defaultWss.lookupWebserviceTokenHandler(cpName)
if th == None:
th = defaultWss.createWebserviceTokenHandler(cpName)
th.setClassName('weblogic.xml.crypto.wss.BinarySecurityTokenHandler')
th.setTokenType('x509')
cpm = th.createConfigurationProperty('UseX509ForIdentity')
cpm.setValue('true')
save()
activate(block="true")
disconnect()
exit()
```

F

# **Appendix: Installation Order**

This section provides a guideline for the order in which the Oracle Retail applications should be installed. If a retailer has chosen to use only some of the applications, the order is still valid, less the applications not being installed.

**Note:** The installation order is not meant to imply integration between products.

#### Enterprise Installation Order

- 1. Oracle Retail Merchandising System (RMS), Oracle Retail Trade Management (RTM)
- 2. Oracle Retail Sales Audit (ReSA)
- 3. Oracle Retail Extract, Transform, Load (RETL)
- 4. Oracle Retail Active Retail Intelligence (ARI)
- 5. Oracle Retail Warehouse Management System (RWMS)
- 6. Oracle Retail Invoice Matching (ReIM)
- 7. Oracle Retail Price Management (RPM)
- 8. Oracle Retail Allocation
- 9. Oracle Retail Mobile Merchandising (ORMM)
- 10. Oracle Retail Xstore Office
- **11.** Oracle Retail Xstore Point-of-Service, including Xstore Point-of-Service for Grocery, and including Xstore Mobile
- 12. Oracle Retail Xstore Environment
- **13.** Oracle Retail EFTLink
- 14. Oracle Retail Store Inventory Management (SIM), including Mobile SIM
- 15. Oracle Retail Batch Service Architecture (BSA)
- 16. Oracle Retail Predictive Application Server (RPAS)
- 17. Oracle Retail Demand Forecasting (RDF)
- Oracle Retail Category Management Planning and Optimization/Macro Space Optimization (CMPO/MSO)
- 19. Oracle Retail Replenishment Optimization (RO)

- **20.** Oracle Retail Analytic Parameter Calculator Replenishment Optimization (APC RO)
- 21. Oracle Retail Regular Price Optimization (RPO)
- 22. Oracle Retail Merchandise Financial Planning (MFP)
- 23. Oracle Retail Size Profile Optimization (SPO)
- 24. Oracle Retail Assortment Planning (AP)
- 25. Oracle Retail Item Planning (IP)
- 26. Oracle Retail Item Planning Configured for COE (IP COE)
- 27. Oracle Retail Advanced Inventory Planning (AIP)
- 28. Oracle Retail Integration Bus (RIB)
- 29. Oracle Retail Services Backbone (RSB)
- 30. Oracle Retail Financial Integration (ORFI)
- 31. Oracle Retail Data Extractor for Merchandising
- 32. Oracle Retail Clearance Optimization Engine (COE)
- **33.** Oracle Retail Analytic Parameter Calculator for Regular Price Optimization (APC-RPO)
- **34.** Oracle Retail Insights, including Retail Merchandising Insights (previously Retail Merchandising Analytics) and Retail Customer Insights (previously Retail Customer Analytics)