

Oracle® Retail Integration Bus

Installation Guide

Release 13.2

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Oracle Retail Integration Bus Installation Guide, Release 13.2

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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?
- Does the structure of the information help you with your tasks?
- Do you need different information or graphics? If so, where, and in what format?
- Are the examples correct? Do you need more examples?

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 13.2 documentation set:

- *Oracle Retail Integration Bus Data Model*
- *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 Functional Artifacts Guide*
- *Oracle Retail Functional Artifact Generator Guide*
- *Oracle Retail Service-Oriented Architecture Enabler Tool Guide*

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To contact Oracle Customer Support, access My Oracle Support at the following URL:

<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, 13.1) or a later patch release (for example, 13.1.2). If you are installing the base release, additional patch, and bundled hot fix releases, read the documentation for all releases that have occurred since the base release before you begin installation. Documentation for patch and bundled hot fix releases can contain critical information related to the base release, as well as information about code changes since the base release.

Oracle Retail Documentation on the Oracle Technology Network

Documentation is packaged with each Oracle Retail product release. Oracle Retail product documentation is also available on the following Web site:

http://www.oracle.com/technology/documentation/oracle_retail.html

(Data Model documents are not available through Oracle Technology Network. These documents are packaged with released code, or you can obtain them through My Oracle Support.)

Documentation should be available on this Web site within a month after a product release.

Conventions

The following text conventions are used in this document:

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

Introduction

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

- An installation of RIB's Java EE applications (rib-<app>.ear) on Java EE 5 compliant application server.
- 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 *Oracle Retail Integration Bus Implementation Guide* Integration Gateway Services for details 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 13.2 application cannot be installed over an existing version, such as 13.1.1.

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

Task	Notes
Prepare the JMS.	Prerequisite
Verify the Applications to which RIB will be integrating are configured appropriately.	
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: Installation using the RIB Installer GUI Or Installation using the RIB App Builder Command Line Tools.	It is strongly recommended that the RIB Installer GUI method be used.
Verify Application URL settings match RIB installation.	RIB Functional Artifact URL 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 <i>Oracle Retail Integration Bus Operations Guide</i> .

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.

Check Server Requirements

Supported On	Versions Supported
Database OS	<p>OS certified with Oracle Database 11gR2 Enterprise Edition. Options are:</p> <ul style="list-style-type: none">■ Oracle Enterprise Linux 5 Update 3 (OEL5.3) for x86-64 (Actual hardware or Oracle virtual machine)■ Red Hat Enterprise Linux 5 Update 3 (RHEL 5.3) for x86-64 (Actual hardware or Oracle virtual machine)■ IBM AIX 6.1 (Actual hardware or LPARs)■ Solaris 10 Sparc (Actual hardware or logical domains)■ HP-UX 11.31 Integrity (Actual hardware or HPVM)

Supported On	Versions Supported
Database Server	<p>Oracle Database Enterprise Edition 11gR2 (11.2.0.1) with the following oneoff patches:</p> <p>Patches:</p> <ul style="list-style-type: none"> ■ 9582272: ORA-600[kkdIReadOnDiskDefVal: error] occurs when ALTER TRIGGER is executed. ■ 9100882: SOA: ORA-600[KGHFRE3] SIGNALLED. ■ 9010222: APPS ST 11G ORA-00600 [KKSFBFC-REPARSE-INFINITE-LOOP] ■ 9932143: [CTS] 3 FAILURES IN JMS/AQ RUN DIDN'T GET EXPECTED MSG BACK AND REDELIVERED FLAG ■ 9130054: MASSIVE ORA-2051 SIGNALLED DURING SOA TEST AGAINST AN 11.2.0.1 DATABASE. ■ 9367425: PROCESS CRASHED WHEN USING 11GR2 JDBC/OCI. ■ 9495959: HANG WHEN TWO THREADS TRY TO CREATE THE ENV HANDLE AT THE SAME. <p>Note: Patches 9367425 and 9495959 must be applied together.</p> <p>Components:</p> <ul style="list-style-type: none"> ■ Oracle Database 11g ■ Oracle Partitioning ■ Oracle Net Services ■ Oracle Call Interface (OCI) ■ Oracle Programmer ■ Oracle XML Development Kit ■ Examples CD (Formerly the companion CD) ■ ANSI compliant C compiler (certified with OS and database version) ■ Perl compiler 5.0 or later ■ x-Windows interface
AQ JMS Server	Oracle Database 11g R2
Application Server OS	<p>OS certified with Oracle Fusion Middleware 11g Release 1 (11.1.1.3). Options are:</p> <ul style="list-style-type: none"> ■ Oracle Enterprise Linux 5 Update 3 (OEL5.3) for x86-64 (Actual hardware or Oracle virtual machine) ■ Red Hat Enterprise Linux 5 Update 3 (RHEL 5.3) for x86-64 (Actual hardware or Oracle virtual machine) ■ IBM AIX 6.1 (Actual hardware or LPARs) ■ Solaris 10 Sparc (Actual hardware or logical domains) ■ HP-UX 11.31 Integrity (Actual hardware or HPVM)

Supported On	Versions Supported
Application Server	Oracle Fusion Middleware 11g Release 1 (11.1.1.3) Components: <ul style="list-style-type: none"> Oracle WebLogic Server 11g Release 1 (10.3.3)
Minimum required JAVA version for Solaris OS	1.6.0 18
Minimum required JAVA version for all other OS	1.6.0 x

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 11.1.1.0 or higher is available in the WebLogic Application Server (10.3.3) and applied to the domain where RIHA will be installed.

Other Resources

For information about WebLogic Application Server 11g, see the Oracle WebLogic Server Documentation Library:

- WebLogic Application Server 11g - Index
http://download.oracle.com/docs/cd/E15523_01/index.htm
- WebLogic Application Server 11g - Documents
http://download.oracle.com/docs/cd/E15523_01/wls.htm

Note: See also the Oracle Database Administrator's Guide 11g Release 2 (11.2) and the Oracle WebLogic Application Server 11g (10.3.3) documentation.

RIB Integration Gateway Services (IGS) Supported Operating Systems

Supported On	Version Supported
Oracle WebLogic Server OS	OS certified with OracleWebLogic Server 11g 10.3.3. Options are: <ul style="list-style-type: none"> Oracle Enterprise Linux 5 Update 3 (OEL5.3) for x86-64 (Actual hardware or Oracle virtual machine) Red Hat Enterprise Linux 5 Update 3 (RHEL 5.3) for x86-64 (Actual hardware or Oracle virtual machine) IBM AIX 6.1 (Actual hardware or LPARs) Solaris 10 Sparc (Actual hardware or logical domains) HP-UX 11.31 Integrity (Actual hardware or HPVM)
Oracle WebLogic Server	Oracle WebLogic Server 11g (10.3.3)

Supported Oracle Retail Products

Supported On	Version Supported
RWMS 13.2	RIB 13.2
RMS 13.2	RIB 13.2
RPM 13.2	RIB 13.2
SIM 13.2.1	RIB 13.2
AIP 13.2	RIB 13.2

Supported Oracle Applications

Supported On	Version Supported
Oracle E-Business Suite (General Ledger and Accounts Payable)	<p>Oracle Application Integration Architecture (AIA) Media Pack 2.5</p> <p>Oracle E-Business Suite integration is supported using the Oracle Financial Operations Control Integration Pack for Oracle Retail Merchandising Suite and Oracle E-Business Suite Financials. See the Oracle® Application Integration Architecture 2.5: Installation and Upgrade Guide for specific version information</p>
PeopleSoft Enterprise Financials	<p>Oracle Application Integration Architecture (AIA) Media Pack 2.5</p> <p>PeopleSoft Enterprise Financials integration is supported using the Oracle Retail Merchandising Integration Pack for PeopleSoft Enterprise Financials: Financial Operations Control. See the Oracle® Application Integration Architecture 2.5: Installation and Upgrade Guide for specific version information.</p>

The 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, the RIB can take advantage of database RAC capability for its JMS provider. By using RAC AQ as the 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 a Oracle RAC database, the only configuration change required in rib-`<app>` is the RAC JDBC connection URL.

Note: The RIB supports only the use of the Oracle Type 4 Thin Java Database Connectivity (JDBC) driver (ojdbc6.jar) for all JDBC connections, including RAC.

The RIB and Oracle WebLogic Server Cluster

The RIB uses JMS server for message transportation between the integrating retail applications. Because the 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.

Check for the Current Version of the Installation Guide

Corrected versions of Oracle Retail installation guides may be published whenever critical corrections are required. For critical corrections, the rerelease of an installation guide may not be attached to a release; the document will simply be replaced on the Oracle Technology Network Web site.

Before you begin installation, check to be sure that you have the most recent version of this installation guide. Oracle Retail installation guides are available on the Oracle Technology Network at the following URL:

http://www.oracle.com/technology/documentation/oracle_retail.html

If a more recent version of this installation guide is available, that version supersedes all previous versions. Only use the newest version for your installation.

An updated version of an installation guide is indicated by 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 an installation guide with part number E123456-01.

Determine the UNIX User Account to Install the Software

The user account that installs the 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*.

The 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>-wls-instance. 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 base/default domain of WLS.

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 11g Release 3 (10.3.3).

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

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

- rib-func-artifact-wls-instance. (It is recommended, but not required, that this naming convention be followed.)

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-wls-instance. (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-wls-instance
- rib-rfm-wls-instance
- rib-rms-wls-instance
- rib-rpm-wls-instance
- rib-rwms-wls-instance
- rib-sim-wls-instance

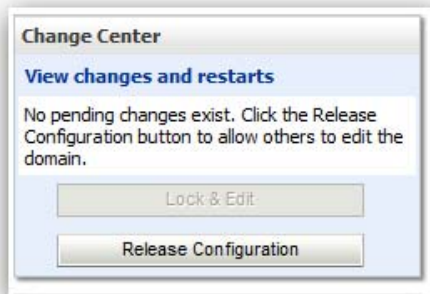
Note: See Oracle WebLogic Server 11g Release 3 (10.3.3) documentation for more details on How to Create managed servers.

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

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

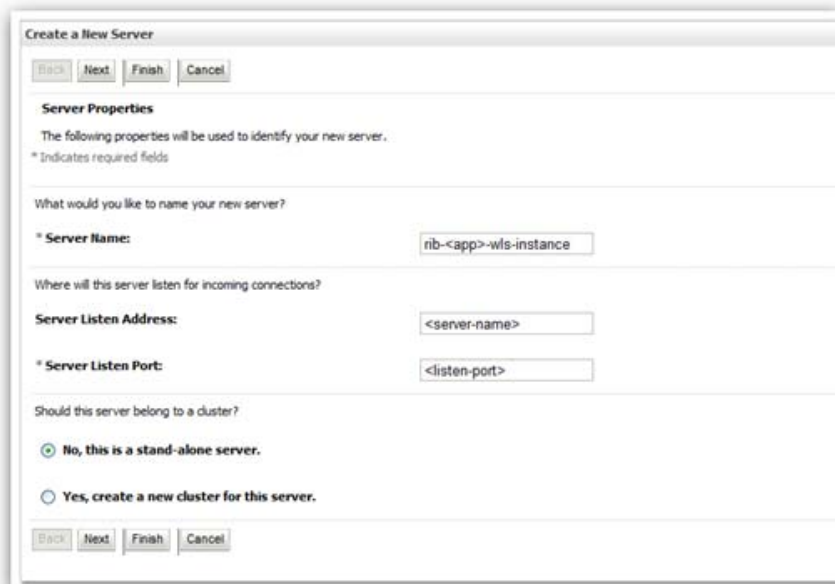


3. Click **Lock & Edit**.



4. Click **New**.
5. Enter the name, port, and listen address of the server instance to be created.
For example:

- Server Name: rib-<app>-wls-instance
- Server Listen Address: <server-name>
- Server Listen Port: <listen-port>

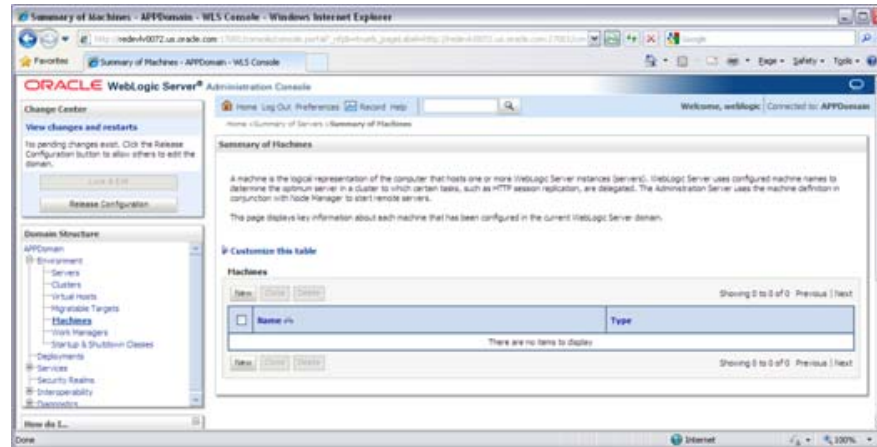


6. Click **Next**. Click **Finish**. Make sure you see this instance listed under Servers

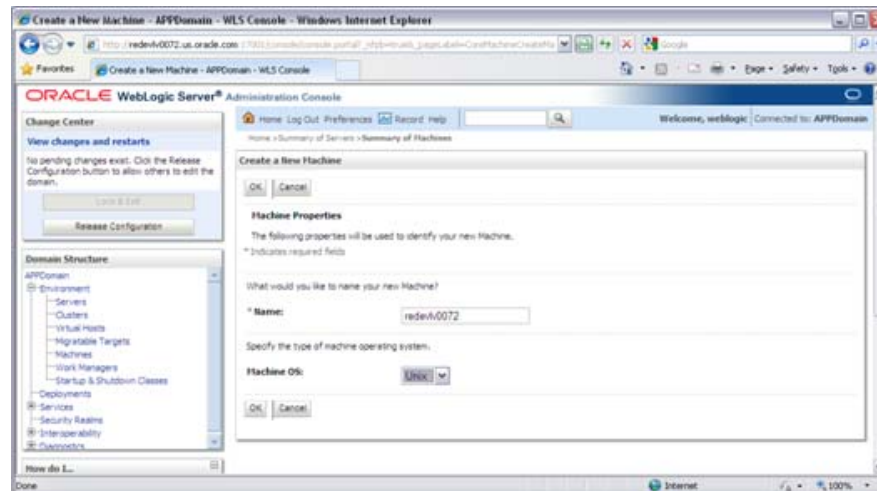
Install NodeManager

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 admin console. Only one NodeManager is needed for each WebLogic installation.

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

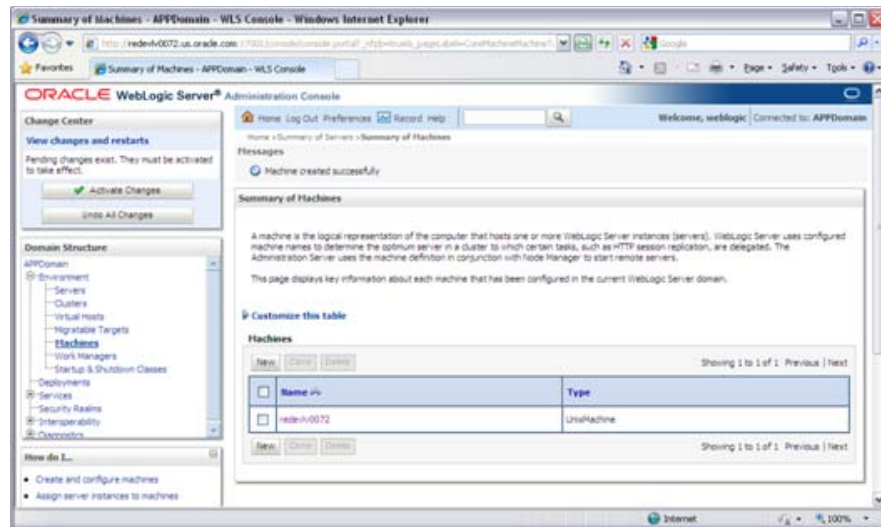


3. Click **New**.



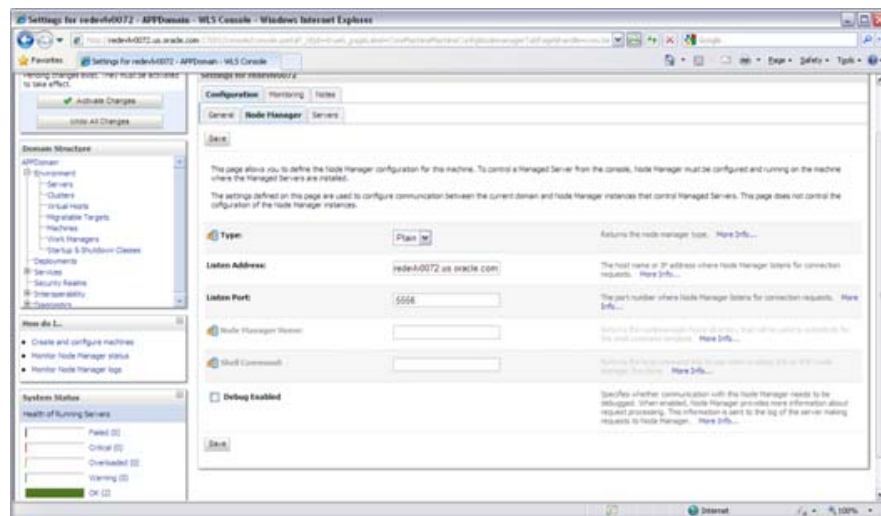
4. Set the following variables:
 - Name: Logical machine name
 - Machine OS: UNIX
5. Click **OK**.

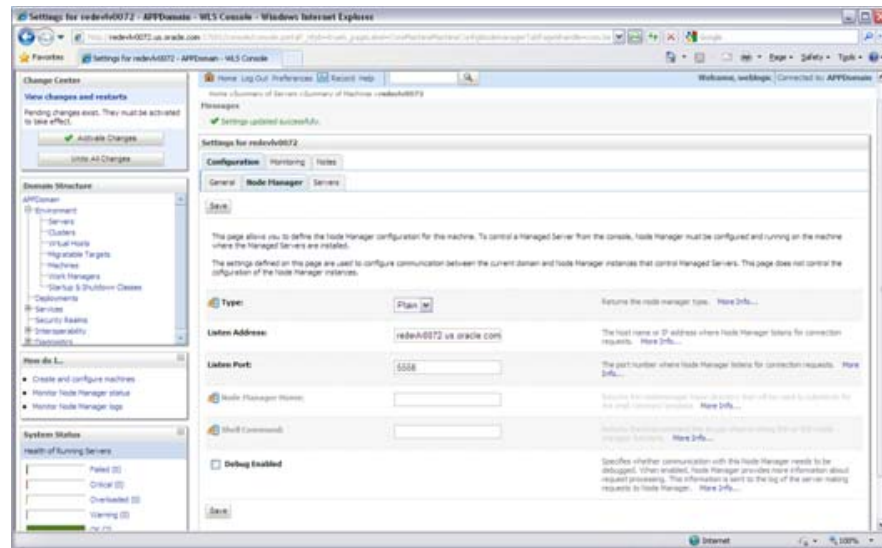
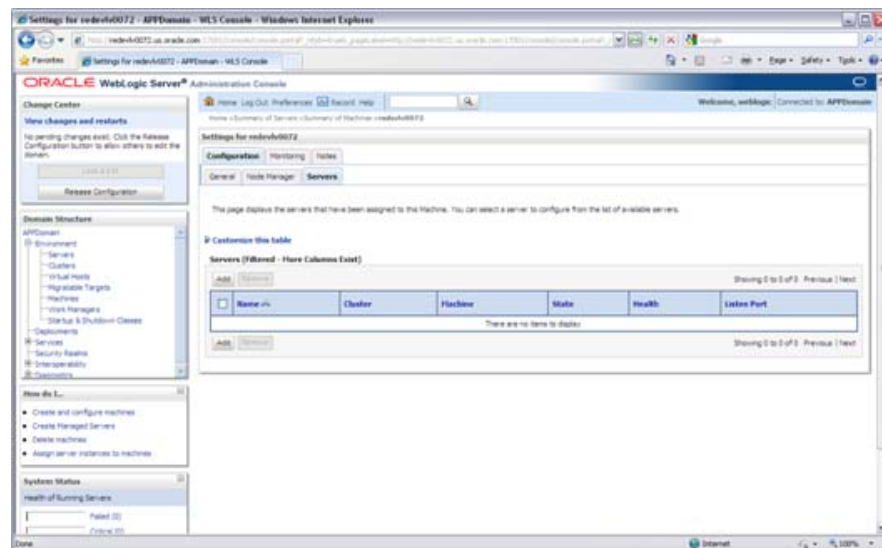
6. Click on the machine created



7. Click the NodeManager tab and update the details below.

- **Type:** Plain
- **Listen Address:** For example, redevlv0072.us.oracle.com
- **Listen Port:** Default port (for example, 5556) or any available port



8. Click **Save**.9. Click **Activate Changes**.10. Click **Lock & Edit**.11. Navigate to **Environments > machines**. Click on the machine name and select the **Servers** tab.

12. Add the managed servers that need to be configured with NodeManager. Save the changes.

13. Click **Add** to repeat for additional servers.14. Click **Activate Changes**.15. Start NodeManager from the server using the `startNodeManager.sh` at `$WL_HOME/wlserver_10.3/server/bin/startNodeManager.sh`.

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}

16. Update nodemanager.properties file at the following location and set the SecureListener variable to false:
\$WL_HOME/wlserver_10.3/common/nodemanager/nodemanager.properties
SecureListener=false
17. 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 (RibKernel13.2.0ForAll13.x.xApps_eng_ga.jar) into the workspace and extract its contents.
3. Extract the jar file using the following command: \$JAVA_HOME/bin/jar xf (RibKernel13.2.0ForAll13.x.xApps_eng_ga.jar).
4. Change directories to Rib13.2.0ForAll13xxApps/rib-home. This location will be referred to as <RIB_HOME> for the remainder of this chapter.

Configure the rib-<app>-wls-instance

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.

```
CLASSPATH=$DOMAIN_HOME/servers/$SERVER_NAME:$CLASSPATH
JAVA_OPTIONS="-Dweblogic.ejb.container.MDBMessageWaitTime=2 ${JAVA_OPTIONS}"
JAVA_VM="-server"
USER_MEM_ARGS="-Xms1024m -Xmx2048m -XX:MaxPermSize=256m"
```

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

```

echo "."

echo "."

echo "JAVA Memory arguments: ${MEM_ARGS}"

echo "."

echo "WLS Start Mode=${WLS_DISPLAY_MODE}"

echo "."

CLASSPATH=${DOMAIN_HOME}/servers/${SERVER_NAME}:${CLASSPATH}
JAVA_OPTIONS="-Dweblogic.ejb.container.MDBMessageWaitTime=2 ${JAVA_
OPTIONS}"
JAVA_VM="-server"
USER_MEM_ARGS="-Xms1024m -Xmx2048m -XX:MaxPermSize=256m"

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 *"

echo "* console at http://hostname:port/console *"

echo "*****"

# 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_10.3>/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 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.

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/ 10.3.3_RIB/WLS/user_
projects/domains/132qa1_rib_domain/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
"credstoessp.credstore.*", "read,write,update,delete";
};
```

3. Edit the nodemanager.properties file.

Edit \$WL_HOME/wlserver_10.3/common/nodemanager/nodemanager.properties file to change the StartScriptEnabled property to true and make sure the StartScriptName property is set to startWebLogic.sh. Below is a sample from the file.

```
StartScriptName=startWebLogic.sh
StartScriptEnabled=true
```

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

NodeManager must be restarted after making changes to the nodemanager.properties file.

4. Move the RIB packaged jars to the server library.

Copy aqapi.jar and ojdbc6.jar from rib-home/integration-lib/third-party/oracle/db/11.2.0.1.0 to \$WL_HOME/wlserver_10.3/server/lib.

Example:

```
[11.2.0.1.0]$cp aqapi.jar $WL_HOME/wlserver_10.3/server/lib
```

```
[11.2.0.1.0]$cp ojdbc6.jar $WL_HOME/wlserver_10.3/server/lib
```

5. Start rib-<app>managed server.

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

Option 1: Run startup scripts through the command line

a. Log in to the machine where WLS was installed with the operating system user that was used to install the WebLogic Application Server (WLS).

b. Navigate to the DOMAIN_HOME/bin

For example:

```
$cd product/10.3.3/WLS/user_projects/domains/base_domain/bin
```

c. Run the startManagedWebLogic script.

For example:

```
sh startManagedWebLogic.sh rib-rms-wls-instance http://localhost:7001
```

Option 2: Start WebLogic using admin console.

NodeManager must be running for starting managed 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 admin console. They must be run through the installer GUI or on the command line.

- a. Log in to the WebLogic admin console GUI (<http://<host>:<port>/console>) as administrator
- b. Using the right side menu, navigate to Environment > Servers
- c. Click rib-<app> managed server.
- d. Click the **Control** tab.
 1. Select the managed server instance that must be started.
- e. Click **Start**.
- f. Repeat this procedure for all rib-<app>managed servers.

Database Installation Tasks

There are several tasks that must be performed for the 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 the RIB is deployed into 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. In previous releases, rib-<app> used the respective retail application database schema for its location of the RIB Hospital tables. In this release, 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 rib-private-kernel-database-library.zip file. The rib-private-kernel-database-library.zip can be found in the rib-home directory structure.

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 to participate in XA transaction. Verify whether the XA scripts have been run on the database so that it aware of XA transactions. On the 11gR2 database server, using SQLPlus or a similar tool, log in as the sys user and run the following.

- \$ORACLE_HOME/rdbms/admin/xaview.sql
- \$ORACLE_HOME/javavm/install/initxa.sql

These scripts are usually installed by default in the 11gR2 database. After running the two scripts listed above, run the following to enable XA transactions for the RIB database user.

- grant select on v\$xa-trans to public
- grant select on pending_trans to public
- grant select on dba_2pc_pending to public
- grant select on dba_pending_transactions to public
- grant execute on dbms_system to public

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, 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 uses both mechanism, whereas RWMS uses only Oracle Objects to communicate with RIB.

1. Verify that the RMS and RWMS database schema has 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's database schema already have 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*.

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's database schema has all the database objects defined equivalent to the once defined in the RIB delivered script called 1_CLOB_CREATE_OBJECTS.SQL.

Note: See the *Oracle Retail Integration Bus Operations Guide*.

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 13.x, 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 "TAFRHOSP"  
IDENTIFIED BY "TAFRHOSP"  
DEFAULT TABLESPACE "USERS" TEMPORARY TABLESPACE "TEMP";  
GRANT "CONNECT" TO " TAFRHOSP ";  
GRANT "RESOURCE" TO " TAFRHOSP ";  
ALTER USER "TAFRHOSP"  
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 rib-private-kernel-database-library.zip file. The rib-private-kernel-database-library.zip can be found in the rib-home directory structure.

Prepare Oracle AQ JMS Provider

Oracle Streams AQ is the JMS provider that RIB uses for a synchronous communication. It requires Oracle RDBMS 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 RDBMS 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 "RIBAQ" IDENTIFIED BY "RIBAQ"
DEFAULT TABLESPACE "RETEK_DATA"
TEMPORARY TABLESPACE "TEMP";
GRANT "CONNECT" TO "RIBAQ";
GRANT "RESOURCE" TO "RIBAQ";
GRANT CREATE SESSION TO "RIBAQ";
GRANT EXECUTE ON "SYS"."DBMS_AQ" TO "RIBAQ";
GRANT EXECUTE ON "SYS"."DBMS_AQADM" TO "RIBAQ";
GRANT EXECUTE ON "SYS"."DBMS_AQIN" TO "RIBAQ";
GRANT EXECUTE ON "SYS"."DBMS_AQJMS" TO "RIBAQ";
GRANT "AQ_ADMINISTRATOR_ROLE" TO "RIBAQ";
ALTER USER "RIBAQ"
QUOTA UNLIMITED ON RETEK_DATA;
```

Note: See also:

Oracle® Database Administrator's Guide 11g Release 2 (11.2)

Oracle® Streams Advance Queuing User's Guide and Reference 11g Release 2 (11.2)

Run the RIB Application Installer

This chapter provides instructions for running the RIB Application Installer.

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 Server(s).

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

Oracle Configuration Manager

The Oracle Retail OCM Installer packaged with this release installs the latest version of OCM.

The document, "Oracle Configuration Manager Installer Guide" (ID 1071030.1), is available through My Oracle Support:

<https://support.oracle.com>

This document describes the procedures and interfaces of the Oracle Retail Oracle Configuration Manager Installer that a retailer runs at the beginning of the installation process.

OCM Documentation Link

<http://www.oracle.com/technology/documentation/ocm.html>

How to Run the RIB Application Installer

To run the RIB application installer, do the following.

1. Expand the RIB Kernel distribution as described above.
2. Download the RIB Functional Artifacts distribution (RibFuncArtifact13.2.0ForAll13.2.0Apps_eng_ga.tar), and copy it into the <RIB_HOME>/download-home/rib-func-artifacts directory. Do not untar the file.
3. Download the tar file distributions for each rib-<app> application that you will install. Copy the files into the <RIB_HOME>/download-home/all-rib-apps directory. Do not untar the files.
4. Download the RIB Diagnostic and Monitoring Tools (RDMT) package (Rdmt13.2.0ForAll13.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.
5. For multiple JMS servers only: If your RIB installation includes more than one JMS server, you must complete the additional preinstallation steps listed above.
6. Set the JAVA_HOME environment variable. The JAVA_HOME must be set to a Java 1.6 JDK.
7. Be sure there are no pre-existing instances of ANT in your path:

```
$ unset ANT_HOME
```

```
$ unset ANT_CONTRIB
```

```
$ unset CLASSPATH
```

The following command should not find the ant executable:

```
$ which ant
```

8. 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.
9. Make sure that all WebLogic instances that you intend to deploy to are currently running.
10. Give execute permissions to rib-home:
For example, `chmod -R 755 rib-home`.
11. Change directories to the <RIB_HOME> directory.
12. Run the rib-installer.sh script. The RIB installer appears.

Note: See [Appendix A](#) for details about the screens and fields in the installer.

13. Restart the rib-<app>-wls-instances. 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.
14. 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.

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 the section, "JMS Provider Management," 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. Examine the `rib-integration-flows.xml` to identify all the RIB applications in the full integration flow.
3. Ensure that a new AQ JMS database server (not a schema) is set up. For information see "[Prepare Oracle AQ JMS Provider](#)" in Chapter 3, "Database Installation Tasks."
4. 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. When 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 B](#), "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.

Oracle Application Tasks

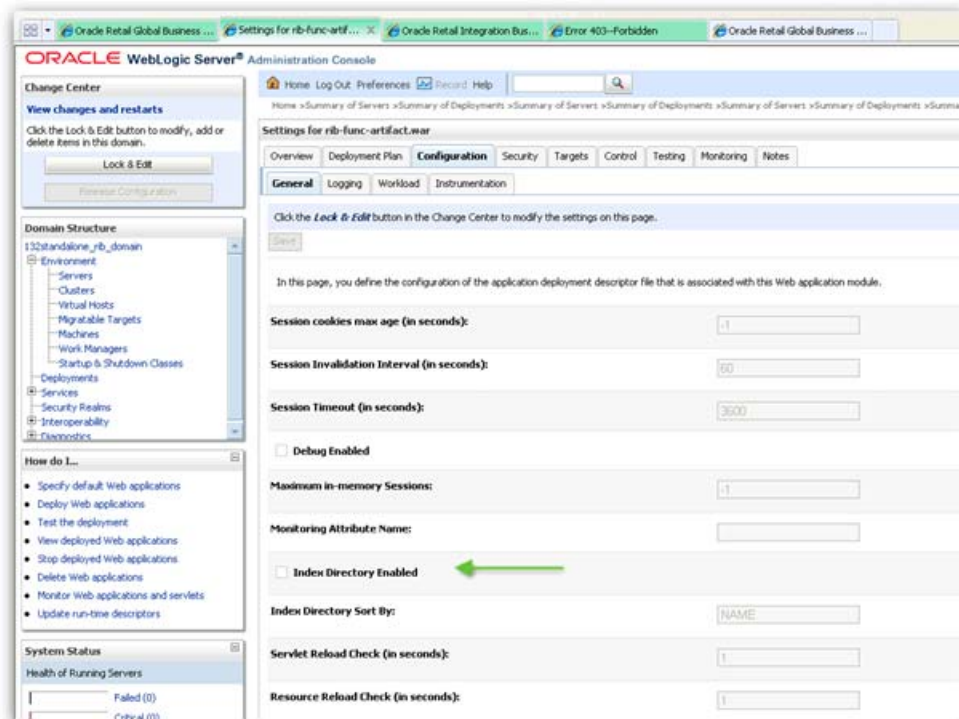
Verify that correct URLs to the RIB Functional Artifacts are configured in the Java EE Applications.

- Functional Artifact URL
- JNDI URL

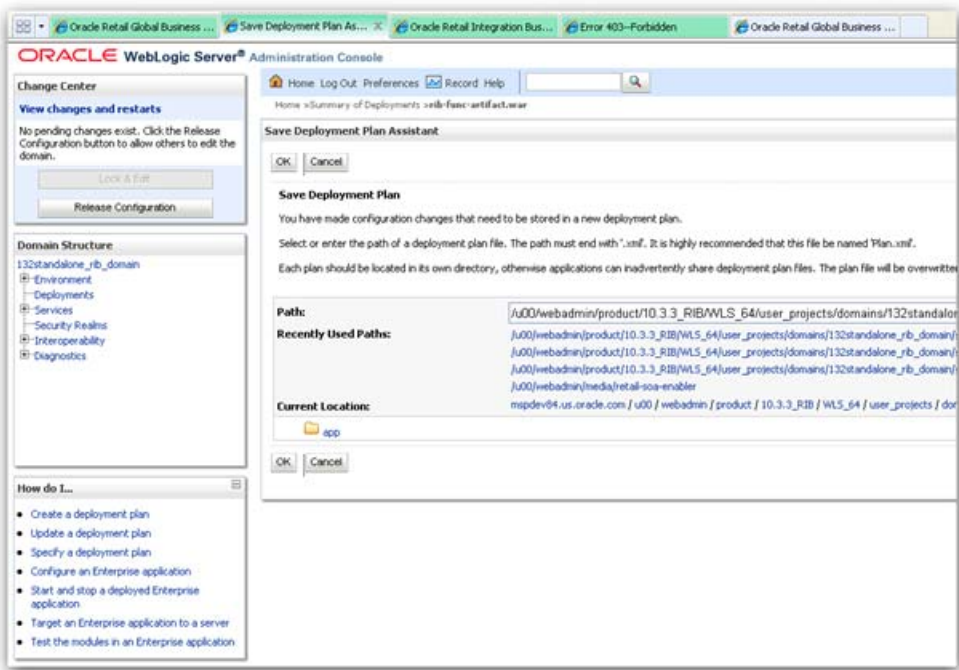
RIB-FUNC Post Deployment

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.

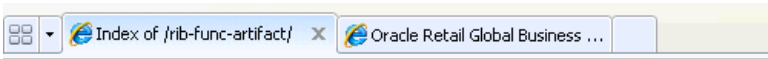
1. Go to the configuration tab of the rib-func-artifact.war deployment in the WLS console. In the Change Center, click **Lock & Edit**. Check the Index Directory Enabled box, as shown in the following illustration.



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



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



Index of /rib-func-artifact/

Name	Last Modified	Size
Parent Directory		
.annotations	07-07-2010 15:36	<DIR>
.faces	07-07-2010 15:36	<DIR>
.taghandlers	07-07-2010 15:36	<DIR>
.taglisteners	07-07-2010 15:36	<DIR>
.tlds	07-07-2010 15:36	<DIR>
integration	17-05-2011 01:28	<DIR>
payload	17-05-2011 01:28	<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 5.0. 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 (Rdmt13..2.0ForAll13.x.xApps_eng_ga.tar) and extract it.
`>tar svf Rdmt13.2.0ForAll13.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 need to run the tools in the toolkit.

6. The installation automatically configures for all the rib-<apps>s 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-<app>s. 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

The following are the necessary directory parameters.

Parameters	Setting
RDMT Home Directory	Rib1320ForAll13xxApps/rib-home/tools-home/rdmt/
RDMTLOGS Directory	Rib1320ForAll13xxApps/rib-home/tools-home/rdmt/RDMTLOGS
Temp Files Directory	Rib1320ForAll13xxApps/rib-home/tools-home/rdmt/RDMTLOGS/tmp
RIB App Builder rib-home Directory	/u00/Rib1320ForAll13xxApps/rib-home

The following are parameters for the JMS provider.

Parameter	Setting
AQ JMS User ID	ribaq
AQ JMS Password	retail
JMS Connection URL	jdbc:oracle:thin:@host-name:port:sid

The following are WLS parameters for JMX functions:

Parameter	Setting
WLS/JMX Host	mspdev72
WLS Admin Port	8001
WLS Instance Name	rib-rms-wls-instance
WLS Instance Port	8002
WLS App Name	rib-rms
WLS User Name	weblogic
WLS Password	welcome1

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

Parameter	Setting
User Name	rms
Password	retail
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 10.3.3.

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 13.2. 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 11g Release 3 (10.3.3.0) and Java 6.

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 6.

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. Every .ear file or ejb-jar file containing the services should be deployed on its own WebLogic 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, wls_instance.

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

Prepare Integration Gateway Services (IGS)

The IGS can be installed under \$RIB_HOME (rib-home/tools-home/integration-bus-gateway-services) or standalone, as described below.

Option 1: Running IGS under \$RIB_HOME

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

1. Download the IntegrationGatewayService13.2.0ForAll13.2.0Apps.tar and untar it under rib-home/tools-home.
2. Copy the ojdbc6.jar and aqapi.jar from \$RIB_HOME/integration-lib/third-party/oracle/db/11.2.0.1.0 to WL_HOME/server/lib.
3. Extract the contents of the .tar file.

tar -xvf IntegrationGatewayService13.2.0ForAll13.2.0Apps_eng_ga.tar

4. 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 admin port..
 - Change the value of WlsTarget to the instance name where IGS is going to be deployed (for example, igs-service_wls_instance).
5. Go to rib-home/tools-home/integration-bus-gateway-services/bin. Run the igs-admin.sh. Running the script does the following:
 - Verifies whether the IGS installation attempt is from within the rib-home or in standalone mode; the pre-configuration cleanup is performed based on this mode.
 - Asks the user for the WebLogic user name and password and serves it in a secure credential store.

Note: The WebLogic user name used here should be set up with the admin 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 JSMS server information listed in the rib-deployment-env-info.xml.
- Deploys the igs-service.ear to the WebLogic server.

All items in Step 5 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. This action verifies whether the attempted IGS installation is from within the rib-home or in standalone mode; the preconfiguration cleanup is performed 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 `rib-home/tools-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 the number of configured AQ JMS servers.
sh igs-admin.sh -prepare
4. Go to `rib-home/tools-home/integration-bus-gateway-services/bin`. Run the `igs-admin.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 the `rib-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 here: `$RIB_HOME/tools-home/integration-bus-gateway-services/log`

Option 2: Running Standalone IGS

To run standalone IGS, complete the following steps.

1. Download the `IntegrationGatewayService13.2.0ForAll13.2.0Apps.tar`. Untar it in the directory from which you want to run IGS. For convenience, the directory in which `igs` is untarred is referred to as `$IGS_HOME`
2. Extract the contents of the `.tar` file.
tar -xvf IntegrationGatewayService13.2.0ForAll13.2.0Apps_eng_ga.tar
3. Copy the `ojdbc6.jar` and `aqapi.jar` from `$IGS_HOME/integration-lib/third-party/oracle/db/11.2.0.1.0` to `WL_HOME/server/lib`.
4. Under a "pre-configured" `$RIB_HOME/deployment-home`, copy the "conf" folder to `IGS_HOME/deployment-home`.
5. From `$RIB_HOME/application-assembly-home/rib-<app>`, copy all `rib-<app>-adapters.xml` to `IGS_HOME/application-assembly-home/rib-<app>`.
6. Go to `$IGS_HOME/integration-bus-gateway-services/conf`. Edit the `IgsConfig.properties` as follows.
 - Change the value of `WlsUrl` to point to the WebLogic server from which IGS is going to be deployed. The port in the `WlsUrl` should be the admin port.
 - Change the value of `WlsTarget` to the instance/cluster name where the IGS is going to be deployed (for example, `igs-service_wls_instance`).

7. Go to `rib-home/tools-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 admin 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 7 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 `igs-admin.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 `rib-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

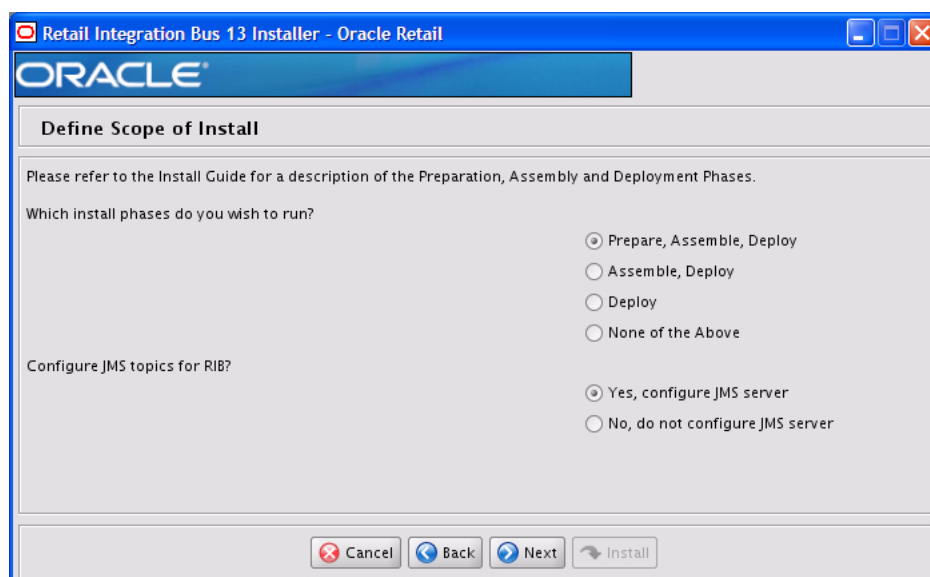
To verify the IGS installations using the Oracle WebLogic Administration Console, complete the following steps:

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.

Appendix: RIB Application Installer Screens

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



Field Title:	Which installation phases do you wish to run?
Field Description	<p>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.</p> <p>Preparation Phase: check-version-and-unpack.sh</p> <p>Assembly Phase: rib-app-compiler.sh</p> <p>Deployment Phase: rib-app-deployer.sh -deploy-rib-func-artifact-war and/or rib-app-deployer.sh -deploy-rib-app-ear rib-<app></p>

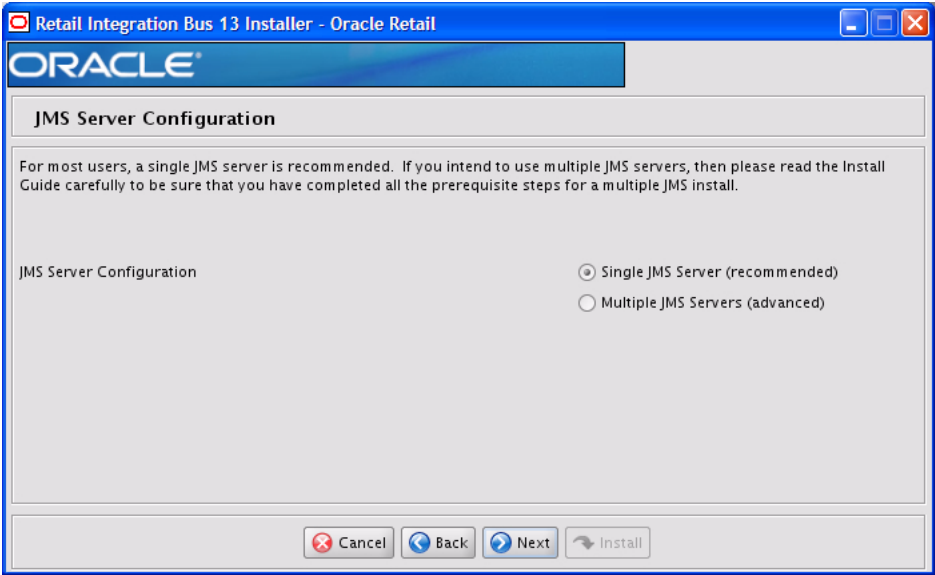
Field Title:	Configure JMS topics for RIB?
Field Description	Used by the installer's build.xml to determine whether to configure the JMS topics. Will run the command-line tool: rib-app-deployer.sh -prepare-jms

Screen: Provide Inputs to Installer?



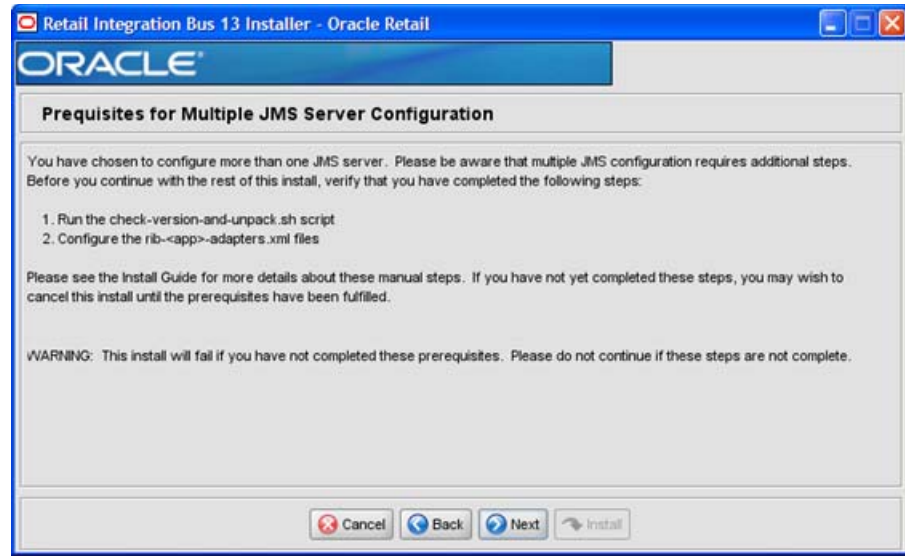
Field Title:	Generate new config file?
Field Description	Used by the installer to determine whether to prompt user for inputs needed to generate the rib-deployment-env-info.xml file. Also used by the installer's build.xml to determine whether generate the new file.

Screen: JMS Server Configuration

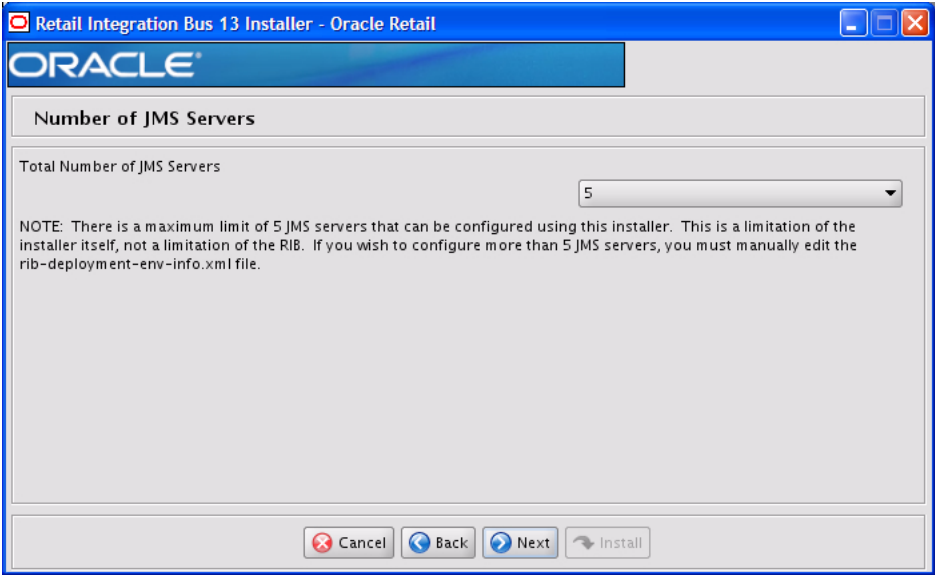


Field Title:	JMS Server Configuration
Field Description	Used by the installer to determine how many sets of JMS server inputs should be collected from the user.

Screen: Prerequisites for Multiple JMS Server Configuration

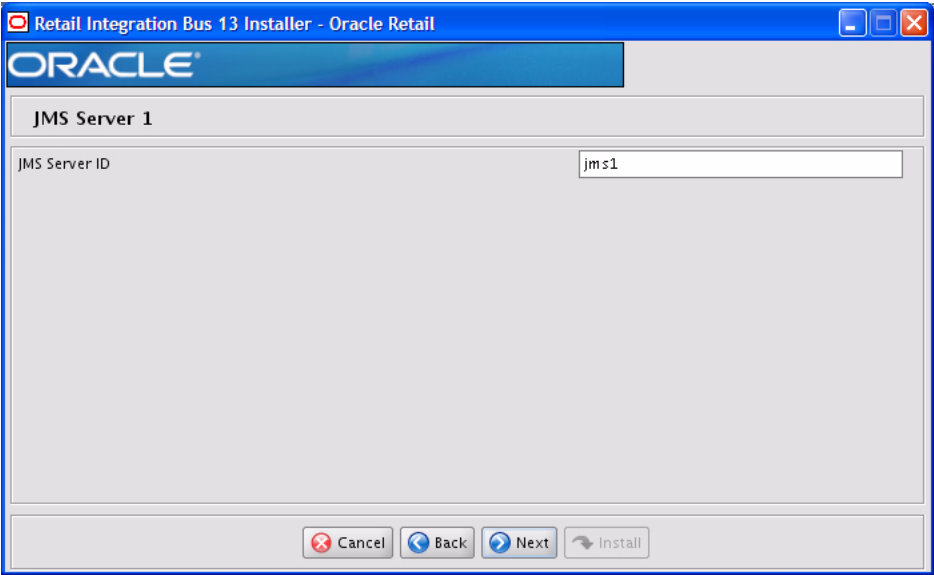


Screen: Number of JMS Servers



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



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

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JMS Server 1 Details

AQ1 JMS Server Home: .com:/home/oracle/product/11.1.0.7/db_1

AQ1 JMS URL: jdbc:oracle:thin:@myhost:1525:mydatabase

AQ1 JMS Port: 1521

AQ1 JMS User: rms01

AQ1 JMS Password: *****

AQ1 JMS User Alias: ribuser

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:	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	single instance thin client: jdbc:oracle:thin:@myhost:1521:mydb

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
Example	RIB_AQ

Field Title:	AQ1 JMS Password
Field Description	The AQ1 JMS password.
Destination	rib-deployment-env-info.xml
Example	RIB_AQ_ALIAS

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	RIB_AQ_ALIAS

Screen: Number of WebLogic Installations

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Number of Weblogic Installations

You may choose to deploy all your rib-<app> to a single Application Server, or you may choose to deploy different rib-<app> to different Application Servers. How many different Weblogic Server installations will be used?

(NOTE: Please be careful not to confuse an Weblogic Server installation with an WLS instance. This screen is asking for the number of Application Servers, not the number of WLS instances.)

Total Number of Application Server installations

1

Cancel Back Next Install

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.
Example	1

Screen: WebLogic Instance <X> Details

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Weblogic Instance 1 Details

Enter details for Weblogic Server number 1

Weblogic Domain Name	wls_domain
Weblogic Domain Home	r_projects/domains/132_QA1_soa_domain
Weblogic Admin User	weblogic
Weblogic Admin Password	•••••
Weblogic Admin Alias	wmsalias
Weblogic Admin Port	7001
Java Home	/path/to/weblogic/home/jdk

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> where <user> is the user who owns the files in the ORACLE_HOME <host> is the name or IP address of the server where the App Server is installed <WEBLOGIC_DOMAIN_HOME> is the filesystem path to the installed domain.
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

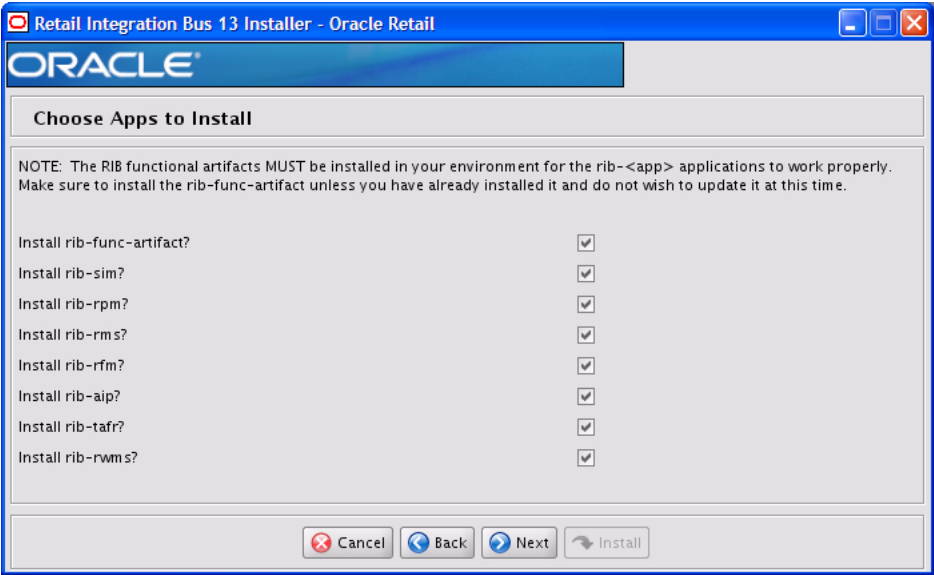
Field Title:	WebLogic Admin User
Example	weblogic

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

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

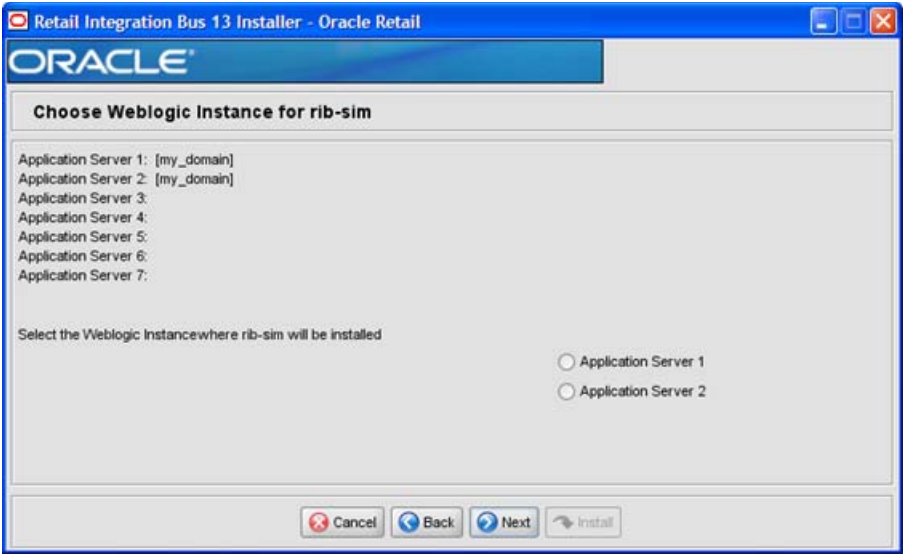
Field Title	Java Home
Field Description	The JDK in the ORACLE_HOME.
Destination	rib-deployment-env-info.xml
Example	/path/to/jdk
Notes	

Screen: Choose Apps to Install



Field Title	Install rib-<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>



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
Field Description	Used by the installer’s build.xml to determine the application server with which to associate the rib-<app>’s WLS instance. Note: The installer requests this informaiton 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>:>.
Destination	rib-deployment-env-info.xml

Screen: Set Email Defaults

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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.

Email server host (SMTP)

Email server port

From email address

To email address(es)

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.
Example	smtp.mycompany.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.
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.
Example	rib@mycompany.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.
Example	name1@mycompany.com, name2@mycompany.com

Screen: rib-<app> WLS Details

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rib-sim WLS Details

rib-sim WLS Instance Name: rib-sim-wls-instance

rib-sim WLS Instance Home: er_projects/domain/132_QA1_soa_domain

rib-sim WLS Instance port number: 7011

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

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

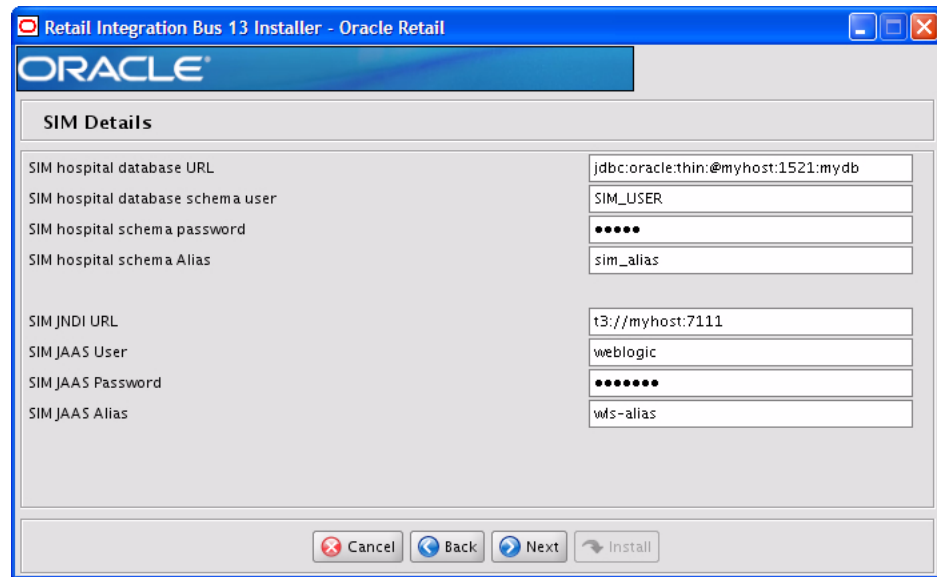
Field Title	rib-<app> WLS Instance port number
Field Description	The port number used by this WebLogic managed server instance.
Destination	rib-deployment-env-info.xml
Example	7011

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

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

Field Title	rib-<app> WLS 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	myalias

Screen: <app> Details



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

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

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

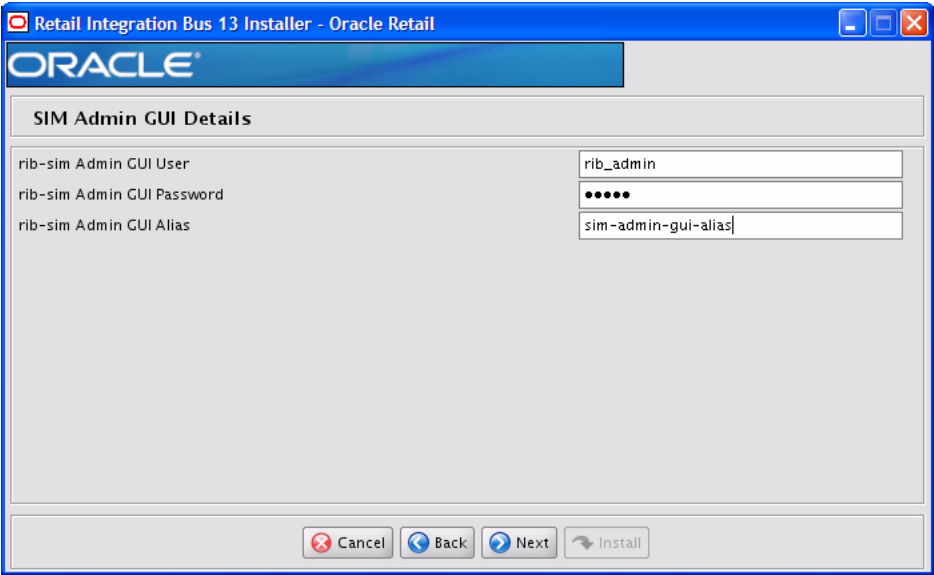
Field Title	<app> JNDI URL
Field Description	URL used by rib-<app> to connect to the <app> application.
Destination	rib-deployment-env-info.xml
Example	t3://myhost:7111

Field Title	<app> JAAS User
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.
Destination	<RIB_HOME>/deployment-home/conf/security/cwallet.sso
Example	weblogic

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

Field Title	<app> JAAS Alias
Field Description	The alias for the <app> JAAS user stored in the wallet file cwallet.sso.
Destination	<rib-deployment-env-info.xml
Example	sim-jaas-alias

Screen: rib-<app> Admin GUI Details



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

Field Title	<app> Admin GUI Password
Field Description	The password for the <app> Admin GUI user.
Destination	<RIB_HOME>/deployment-home/conf/security/cwallet.sso
Example	weblogic1
Notes	For WLS 10.3.3, passwords must include at least one numeral.

Field Title	<app> Admin GUI Alias
Field Description	The alias for the <app> Admin GUI user stored in the wallet file cwallet.sso.
Destination	rib-deployment-env-info.xml
Example	sim-admin-gui-alias

Screen: rib-<app> Email Notification Details

The screenshot shows a Windows installer window titled "Retail Integration Bus 13 Installer - Oracle Retail". The window features the Oracle logo at the top. Below the logo, the title "rib-sim Email Notification Details" is displayed. The main content area contains four input fields for configuration: "Email server host (SMTP)", "Email server port", "From address", and "To address(es)". At the bottom of the window, there are four buttons: "Cancel", "Back", "Next", and "Install".

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.mycompany.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.
Destination	rib-deployment-env-info.xml
Example	rib@mycompany.com

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

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 Java 1.6 JDK 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
checkLockFile0ErrorCode
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 Admin 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 checkbox, "Automatically Acquire Lock and Activate Changes."
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.

Tried encrypting the password, giving up after many attempts. Run deployer again. Error when running rib-app-builder.

This exception can occur when running the rib-app-builder deployment process. The error may occur because of a slow network connection to the WebLogic server where the rib-app is being deployed. Attempting to deploy again may sometimes fix the issue.

Tried encrypting the password, giving up after many attempts. Run deployer again. Error when running rib-app-builder.

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: <ul style="list-style-type: none"> ■ Installation using the RIB Installer GUI ■ Installation using the RIB App Builder Command Line Tools. 	It is strongly recommended that the Installation using the RIB Installer GUI method be used.
Verify Application URL settings match RIB installation.	RIB Functional Artifact URL 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	RIB Hospital maintenance tool

Task	Notes
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 10.3.3	See the <i>Oracle Retail Integration Bus Release Notes</i> for the certifications. See the <i>Oracle Retail Integration Bus Implementation Guide</i> for deployment architectures.
<p>Create the RIB WebLogic managed server instances.</p> <p>Warning: Each rib-<app> application requires a separate WebLogic managed server instance that is not shared with any other application.</p> <p>Create the rib-<app>-wls-instance using WebLogic admin console GUI</p> <p>Log in to the WebLogic admin console GUI (http://<host>:<port>/console) as administrator</p> <p>On the left side menu, navigate to Environment > Servers</p> <p>Click New.</p> <p>Fill in the Name, Port, Listen address of the managed server instance to be create.</p> <p>Example:</p> <p>Server Name : rib-<app>-wls-instance</p> <p>Server Listen Address: blrvmo28</p> <p>Server Listen Port:19007</p>	<p>> with the actual value of the RIB application for the associated retail application.</p> <p>There are two RIB specific WebLogic instances that must be created regardless of the other application deployment choices.</p> <ul style="list-style-type: none"> rib-func-artifact-wls-instance. (It is recommended, but not required, that this naming convention be followed.) <p>These are the optional application instances depending on the deployment choices. It is recommended, but not required that this naming convention be followed:</p> <ul style="list-style-type: none"> rib-rms-wls-instance rib-tafr-wls-instance rib-rpm-wls-instance rib-sim-wls-instance rib-rwms-wls-instance rib-rfm-wls-instance rib-aip-wls-instance
<p>Click Next. Click Finish.</p> <p>Make sure you see this instance listed under Servers.</p>	
<p>Go to the configurations page of the server and select the host name in the Machine field.</p> <p>Click Save.</p> <p>Managed server instance creation is complete.</p>	
<p>> with the actual value of the RIB application for the associated retail application. Acceptable values for <app> are rms, rwms, tafr, sim, rpm, rfm and aip. Port number must be a unique port.</p> <p>Note: For information about creating and managing WebLogic managed server instances, see Oracle® Fusion Middleware Administrator's Guide 11g Release 1 (11.1.1)</p>	

Task	Notes
<p>Edit the script \$DOMAIN_HOME/bin/startWebLogic.sh to add the following attributes.</p> <pre> CLASSPATH=\$DOMAIN_ HOME/servers/\$SERVER_ NAME:\$CLASSPATH JAVA_ OPTIONS="-Dweblogic.ejb.container.MDBMe ssageWaitTime=2 \${JAVA_OPTIONS}" </pre>	<p>Sample from startWebLogic:</p> <pre> echo "JAVA Memory arguments: \${MEM_ ARGS}" echo "." echo "WLS Start Mode=\${WLS_DISPLAY_ MODE}" echo "." JAVA_ OPTIONS="-Dweblogic.ejb.container.MDBM essageWaitTime=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 *" echo "* console at http://hostname:port/console *" echo "*****" </pre>

Task	Notes
	<p>Note:</p> <p>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:</p> <pre> 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} -Djava.security.policy=\${WL_ HOME}/server/lib/weblogic.policy \${JAVA_OPTIONS} \${PROXY_SETTINGS} \${SERVER_CLASS} >"\${WLS_REDIRECT_ LOG}" 2>&1 \${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 </pre>

Task	Notes
<p>Update \$WL_HOME/<wls>/lib/weblogic.policy file with the information below.</p>	<p>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.</p> <p>Note: <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.</p> <p>Note: The path tmp/_WL_user/rib-<app>.ear will not be available before the deployment.</p> <p>Example:</p> <pre>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 "credstore.sp.credstore", "read,write,update,delete"; permission oracle.security.jps.service.credstore.CredentialAccessPermission "credstore.sp.credstore.*", "read,write,update,delete"; }; };</pre>

Task	Notes
<p>Start WebLogic managed server.</p> <p>Note: This procedure can be done through the command line or through the admin console. Both methods are included below.</p> <p>Start WebLogic managed server through the command line:</p> <p>Log in to the machine where WLS was installed with the operating system user that was used to install the WebLogic Application Server (WLS).</p> <p>Navigate to the DOMAIN_HOME/bin</p> <p>Example : \$cd product/10.3.3/WLS/user_projects/domains/base_domain/bin</p> <p>run startManagedWebLogic script with instance name as a parameter</p> <p>Example: sh startManagedWebLogic.sh rib-rms-wls-instance</p> <p>Starting WebLogic managed server through admin console.</p> <p>To be able to properly start RIB managed server instance, the properties below need to be modified in \$WL_HOME/wlserver_10.3/common/node manager/nodemanager.properties file:</p> <p>Change the value of StartScriptEnabled property to true.</p> <p>Change the value of StartScriptName property to startWebLogic.sh</p> <p>Restart the NodeManager after making changes.</p>	<p>Sample nodemanager.properties file:</p> <pre>StartScriptName=startWebLogic.sh StartScriptEnabled=true</pre>
Creating the WebLogic instances is complete.	

Prerequisite - Oracle Database Schemas

Task	Notes
<p>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.</p> <ul style="list-style-type: none"> ■ 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. 	<p>Each Application packages the RIB artifact creation scripts and they are installed at the time of the application's installation.</p> <p>It is critical to ensure that they have been installed and are the correct version.</p> <p>The TAFR Hospital is independent of any of the applications and should have a separate user/schema created for it.</p> <p>It is recommended that all applications have a separate Hospital and that they be logically and operationally associated with that application.</p>

Task	Notes
<p>Ensure that each PL/SQL application schema has run the RIB supplied scripts to create the RIB Artifacts:</p> <ul style="list-style-type: none"> ■ 1_KERNEL_CREATE_OBJECTS.SQL script. ■ InstallAndCompileAllRibOracleObjects.sql ■ 1_CLOB_CREATE_OBJECTS.SQL (RMS only) 	<p>Verify the XML Developer's Kit for PL/SQL is installed.</p>
<p>RMS Application: Verify that the row in the RIB_OPTIONS table has correct values to match the RIB deployment environment.</p>	<p>XML_SCHEMA_BASE_URL= http://<hostname>:<port>/rib-func-artifact;</p>
<p>Ensure that each Java EE application schema has run the RIB supplied scripts to create RIB artifacts:</p> <ul style="list-style-type: none"> ■ 1_KERNEL_CREATE_OBJECTS.SQL script. 	
<p>RIB TAFR RIB Hospital</p> <p>Ensure that the schema exists and has run the RIB supplied script to create the RIB Hospital.</p> <ul style="list-style-type: none"> ■ 1_KERNEL_CREATE_OBJECTS.SQL script. 	<p>In RIB 13.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.</p> <pre>CREATE USER "TAFRHOSP" IDENTIFIED BY "TAFRHOSP" DEFAULT TABLESPACE "USERS" TEMPORARY TABLESPACE "TEMP"; GRANT "CONNECT" TO "TAFRHOSP "; GRANT "RESOURCE" TO "TAFRHOSP "; ALTER USER "TAFRHOSP" QUOTA UNLIMITED ON USERS;</pre>
<p>Ensure that the XA grants are made appropriately.</p> <p>Note: For details, see the Oracle® Database Administrator Guide 11g Release 2.</p>	<pre>grant select on v\$xa_trans\$ to public; grant select on pending_trans\$ to public; Verify that the XA scripts have been run on the database.grant select on dba_2pc_pending to public; grant select on dba_pending_transactions to public; grant execute on dbms_system to public;</pre>

Prerequisite - Prepare Oracle AQ JMS Provider

Task	Notes
Create the Oracle RDBMS instance that will be the JMS Provider.	<p>Oracle Streams AQ is provided by the Oracle RDBMS Enterprise Edition installation.</p> <p>Note: 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.</p> <p>See "Deployment Architecture" in the <i>Oracle Retail Integration Bus Implementation Guide</i>.</p>
<p>Create the 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.</p> <ul style="list-style-type: none"> ■ CONNECT ■ RESOURCE ■ CREATE SESSION ■ EXECUTE ON SYS.DBMS_AQ ■ EXECUTE ON SYS.DBMS_AQADM ■ EXECUTE ON SYS.DBMS_AQIN ■ EXECUTE ON SYS.DBMS_AQJMS 	<p>Sample script:</p> <pre>CREATE USER "RIBAQ" IDENTIFIED BY "RIBAQ" DEFAULT TABLESPACE "RETEK_DATA" TEMPORARY TABLESPACE "TEMP"; GRANT "CONNECT" TO "RIBAQ"; GRANT "RESOURCE" TO "RIBAQ"; GRANT CREATE SESSION TO "RIBAQ"; GRANT EXECUTE ON "SYS"."DBMS_AQ" TO "RIBAQ"; GRANT EXECUTE ON "SYS"."DBMS_AQADM" TO "RIBAQ"; GRANT EXECUTE ON "SYS"."DBMS_AQIN" TO "RIBAQ"; GRANT EXECUTE ON "SYS"."DBMS_AQJMS" TO "RIBAQ"; GRANT "AQ_ADMINISTRATOR_ROLE" TO "RIBAQ"; ALTER USER "RIBAQ" QUOTA UNLIMITED ON RETEK_DATA;</pre>

Information	Notes
<p>jms-server-home</p> <p>jms-url</p> <p>jms-port</p> <p>jms-user</p> <p>jms-password</p>	<p>JMS Provider for RIB 13.2 is AQ.</p> <ul style="list-style-type: none"> ■ jms-server-home: The server home must be in the format <code>OsUser@AqHostName:/AqHomeDirectory</code> For example, <code>riabaq@riabaq-lnx-host:/u00/db</code> "jms-url : AQ thin JDBC connection URL. For example, <code>jdbc:oracle:thin:@riabaq-lnx-host:1521:orcl</code> On AQ on RAC database use the long JDBC URL (for example, <code>jdbc:oracle:thin:@(DESCRIPTION=(ADDRESS_LIST=(ADDRESS=(PROTOCOL=TCP)(HOST=riabaq-lnx-virtual-host-1)(PORT=1521))(ADDRESS=(PROTOCOL=TCP)(HOST=riabaq-lnx-virtual-host-2)(PORT=1521))(LOAD_BALANCE=yes)(CONNECT_DATA=(SERVICE_NAME=orcl)))</code>) ■ jms-port: AQ JMS server listener port. This is same as the AQ JDBC listener port (for example, 1521). ■ jms-user: AQ JMS user. This is the database user that can connect to jms-url (see above). ■ jms-password: AQ JMS password. This is the database password that can connect to jms-url.

Information	Notes
weblogic-domain-name weblogic-domain-home weblogic-domain-server-port java-home	<p>For each of the WebLogic Servers to which the RIB components will be deployed.</p> <ul style="list-style-type: none"> weblogic-domain-name: Your weblogic domain name (for example, base_domain). weblogic-domain-home: The format of the home must follow the format OsUser@WeblogicHostName:/WeblogicDomainPath. For example: ribapp@ribapp-lnx-host:/home/Oracle/Middleware/user_projects/domains/base_domain weblogic-admin-server-port: The port where weblogic admin server is listening (for example, 7001) java-home : Java Home directory of the remote Weblogic server (for example, /usr/java/jdk1.5.0_10)
wls-instance-name wls-instance-home wls-listen-port wls-user-alias	<p>The WebLogic instances for each of your rib-<app> applications that are in-scope.</p> <ul style="list-style-type: none"> wls-instance-name: The WebLogic managed server instance name. For example, rib-rms will be deployed in rib-rms-wls-instance. 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-wls-instance nwls-listen-port: The WebLogic managed server listen port. For example, 7003. 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.
To configure each rib-<app>, this information is needed for each.	<ul style="list-style-type: none"> The application server where it will be deployed. RIB Hospital database information. PL/SQL application database information. E-mail notification information. jndi information for Java EE applications.

Information	Notes
For RIB Hospital database: database/url database/user database/password	<ul style="list-style-type: none"> 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))) database/user: This is the database user that will be used to connect to rib-<app> error hospital tables (for example, rms13user). database/password: This is the database password that will be used to connect to rib-<app> error hospital tables (for example, rms13password).
For PL/SQL application database: database/url database/user database/password	See samples in the row above for RIB Hospital Database.
For email notifications: email-server-host email-server-port from-address to-address-list	<ul style="list-style-type: none"> email/email-server-host: The SMPT mail server (for example, mail.yourcompany.com) email/email-server-port: The SMTP mail server port. (for example, 25) email/from-address: The email address from which the RIB notifications will originate (for example, ribadmin@yourcompany.com) email/to-address-list: Comma separated list of destination email address to which RIB notifications will be sent (for example, ribappsadmin1@yourcompany.com, ribappsadmin2@yourcompany2.com)
joined information for Java EE applications: jndi/url jndi/factory jndi/user jndi/password	<p>jndi/url: The JNDI url for the retail <app> that this rib-<app> is connecting to. The URLs must use the following format.</p> <p>WLS URL format: t3://host:port/applicationName</p> <p>For example, t3://mspdv170:18022/rib-sim.</p> <p>jndi/factory: The JNDI provider factory class name. The factory must be one of the following.</p> <ul style="list-style-type: none"> WLS factory: weblogic.jndi.WLInitialContextFactory jndi/user: The retail <app> JNDI user name. This is the same as the retail <app> WLS server instance user name. For example, weblogic jndi/password: The retail <app> JNDI password. This is same as the retail <app> WLS server instance password. For example, weblogic (must be encrypted)

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. > echo \$JAVA_HOME /usr/bin/java/jdk1.6.0_18	Example: export JAVA_HOME=/usr/bin/java/jdk1.6.0_18
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 <i>Oracle Retail Integration Bus Implementation Guide</i> 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>ForAll<RETAIL_APP_VERSION>Apps_eng_ga.tar. > tar xvf RibKernel13.2ForAll13.2Apps_eng_ga.tar	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.
Download the RibFuncArtifact<RIB_{MAJOR MINOR}_VERSION>ForAll<RETAIL_APP_VERSION>Apps_eng_ga.tar and put it in rib-home/download-home/rib-func-artifacts directory.	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>For<RETAIL_APP_NAME><RETAIL_APP_VERSION>_eng_ga.tar and put it in rib-home/download-home/all-rib-apps directory.	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 > ./rib-installer.sh This will start the x-term GUI.	For installations using a remote client (x-term) set the DISPLAY variable appropriately first. > export DISPLAY=141.144.112.189:0.0 Make sure that your local machine has an X-server (such as Exceed) running.
Verify Application URL settings match RIB installation.	RIB Functional Artifact URL JNDI URL
Bounce all rib-<app>-wls server instances.	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
<p>Make sure that the JAVA_HOME environment variable is set for the user that will be performing these tasks.</p> <pre>> echo \$JAVA_HOME /usr/bin/java/jdk1.6.0_18</pre>	<p>Example: export JAVA_HOME=/usr/bin/java/jdk1.6.0_18</p>
<p>Make sure that all RIB WebLogic instances that are to be deployed to are running.</p>	
<p>Determine the host and file system to create the rib-app-builder home directory on.</p> <pre>> mkdir rib-app-builder</pre>	<p>See the <i>Oracle Retail Integration Bus Implementation Guide</i> for guidelines and deployment approaches.</p> <p>This is an important strategic decision, because all RIB configurations and management for a given deployment will be from this single, central location.</p>
<p>Download and extract the RibKernel<RIB_MAJOR_VERSION>ForAll<RETAIL_APP_VERSION>Apps_eng_ga.tar.</p> <pre>> tar xvf RibKernel13.2.0ForAll13.2Apps_eng_ga.tar</pre>	<p>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.</p>
<p>Download the RibFuncArtifact<RIB_MAJOR_VERSION>ForAll<RETAIL_APP_VERSION>Apps_eng_ga.tar and put it in rib-home/download-home/rib-func-artifacts directory.</p>	<p>Do not extract the tar file. This will be done by the check-version-and-unpack tool.</p>
<p>Download the RibPak<RIB_MAJOR_VERSION>For<RETAIL_APP_NAME><RETAIL_APP_VERSION>_eng_ga.tar and put it in rib-home/download-home/all-rib-apps directory.</p>	<p>Do not extract the tar file. This will be done by the check-version-and-unpack tool.</p>
<p>Run the rib-home/download-home/bin/check-version-and-unpack.sh script from rib-home/download-home/bin directory.</p>	<p>This script verifies the version compatibility between the paks and extract the files if they are compatible.</p>

Task	Notes
<p>Edit <code>rib-home/deployment-home/conf/rib-deployment-env-info.xml</code> file to specify the deployment environment information.</p> <p>See the section, "Information to Gather for Installation in Remote Server", before starting the edit.</p>	<p>This file (<code>rib-deployment-env-info.xml</code>) is the only file that the user has to edit. See the "Rib-app-builder documentation" for details and examples.</p> <p>The XML file has four major sections.</p> <ol style="list-style-type: none"> 1. app-in-scope-for-integration: In this section you define what applications are in scope for this environment. 2. rib-jms-server: In this section you define the JMS server information. Note: See also "Preinstallation Steps for Multiple JMS Server Setup" in Chapter 4 of this guide. 3. rib-javaee-containers: In this section you define the "Java EE container information" for each of the <code>rib-<app></code> that are in scope. 4. rib-applications: In this section you define the <code>rib-<app></code> specific information for each of the <code>rib-<app></code> that are in scope. 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, <code><app></code>) JNDI information.
Edit the <code>app-in-scope-for-integration</code> section to match the desired deployment.	<p>Define what application are in scope for this environment.</p> <pre><app-in-scope-for-integration> <app id="rms" type="plsql-app"/> <app id="tafr" type="tafr-app"/> <app id="sim" type="javaee-app"/> <app id="rwms" type="plsql-app"/> <app id="rpm" type="javaee-app"/> <app id="rfm" type="plsql-app"/> <app id="aip" type="javaee-app"/> </app-in-scope-for-integration></pre>
<p>Edit the <code>rib-jms-server</code> section.</p> <p>See "Preinstallation Steps for Multiple JMS Server Setup" in Chapter 4 of this guide.</p>	<p>For AQ:</p> <pre><jms-server-home>linux1@linux1:/home/oracle/oracle/product/10.2.0/db_1</jms-server-home> <jms-url>jdbc:oracle:thin:@linux1:1521:ora11g</jms-url> <jms-port>1521</jms-port> <jms-user>riabaq</jms-user> <jms-password>riabaq</jms-password></pre>

Task	Notes
Edit the application server section	For example: <weblogic-domain-name>base_ domain</weblogic-domain-name> <weblogic-domain-home>user1@linux1:/home/ user1/Oracle/Middleware/user_ projects/domains/base_ domain</weblogic-domain-home> <weblogic-admin-server-port>7001</weblogic-a dmin-server-port> <java-home>/usr/java/jdk1.6</java-home>
Configure the WebLogic instances for each of your rib-<app> applications that are in scope.	<wls id="rib-rms-wls-instance"> <wls-instance-name>rib-rms-wls-instance</wls- instance-name> <wls-instance-home>soa1@linux1:/home/soa1/ Oracle/Middleware/user_ projects/domains/base_ domain/servers/rib-rms-wls-instance</wls-inst ance-home> <wls-listen-port protocol="http">7003</wls-listen-port> <wls-user-alias>rib-rms-wls-user-alias</wls-use r-alias> </wls>

Task	Notes
<p>Configure the rib-applications section:</p> <p>In this section you define the rib-<app> specific information for each rib-<app> that in scope.</p>	<p>For PL/SQL applications you must define the RIB Hospital connection, application database connections, and email notification information.</p> <pre> <rib-app id="rib-rms" type="plsql-app"> <deploy-in refid="rib-rms-wls-instance" /> <error-hospital-database> <hospurl>jdbc:oracle:thin:@10.141.27.136: 1521:orcl </hosp-url> <hosp-user>hospuser</hosp-user> <hosp-password>hosppwd</hosp-password> </error-hospital-database> <app-database> <app-db-url>jdbc:oracle:thin:@10.141.27.13 6: 1521:orcl </app-db-url> <app-db-user>rmsuser</app-db-user> <app-db-password>rmspwd</app-db-password> </app-database> <notifications> <email> <email-server-host>mail.oracle.com</email- server-host> <email-server-port>25</email-server-port> <from-address>david.burch@oracle.com</from- address> <to-address-list>david.burch@oracle.com</t o-address-list> </email> <jmx/> </notifications> </pre>

Task	Notes
	<pre> <rib-app id="rib-rms" type="plsql-app"> <deploy-in refid="rib-rms-wls-instance"/> <rib-admin-gui> <web-app-url>http://linux1:7003/rib-rms-admin-gui</web-app-url> <web-app-user-alias>rib-rms_rib-admin-gui_ web-app-user-alias</web-app-user-alias> </rib-admin-gui> <app-database> <app-db-url>jdbc:oracle:thin:@10.141.20.184:1521:ora11gr1 </app-db-url> <app-db-user-alias>rib-rms_app-database_ user-name-alias</app-db-user-alias> </app-database> <error-hospital-database> <hosp-url>jdbc:oracle:thin:@10.141.20.184:1521:ora11gr1</hosp-url> <hosp-user-alias>rib-rms_ error-hospital-database_ user-name-alias</hosp-user-alias> </error-hospital-database> <notifications> <email> <email-server-host>mail.oracle.com</email-server-host> <email-server-port>25</email-server-port> <from-address>prem.polavarapu.bad@oracle.com</from-address> <to-address-list>prem.polavarapu.bad@oracle.com</to-address-list> </email> <jmx/> </notifications> <app id="rms" type="plsql-app"> <jndi-not-applicable/> </app> </rib-app> </pre>
	For Java EE applications, you must define RIB admin GUI information, RIB Hospital connection, email notification information, and the connecting retail application's (<app>) JNDI information.
Run the <code>rib-home/application-assembly-home/bin/rib-app-compiler.sh</code> script with <code>setup-security-credential</code> from <code>rib-home/application-assembly-home/bin</code> directory. Example: <code>./rib-app-compiler.sh</code> <code>-setup-security-credential</code>	<p>This will ask for user name and password information for aliases provided in the <code>rib-deployment-env-info.xml</code> file. The user names and passwords are stored in a wallet file inside <code>rib-home/deployment-home/conf/security</code> directory.</p> <p>After that this will generate/assemble a <code>rib-<app></code> and make it ready for deployment</p>

Task	Notes
The RIB apps are now ready to deploy. Execute the rib-home/deployment-home/bin/rib-app-deployer.sh script with the appropriate command line parameter.	This script is located in the rib-home/deployment-home/bin directory.
> rib-app-deployer.sh -prepare-jms	This creates a new JMS server with all RIB configured topics.
>rib-app-deployer.sh -verify-error-hospital rib-<app>	This verifies the following: <ul style="list-style-type: none"> ■ Error-hospital database configurations by testing the connection to the database. ■ 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>	This deploys the rib-<app> to the javaee container. Repeat this step for all rib-<app> that is in scope for this integration environment. Note: <app> must be rms, rwms, tafr, sim, rpm, or aip.
Bounce all of the rib-<app>-wls-instances.	During the installation a shared library is created that contains the JDBC Driver update. It is necessary to bounce the wls instance.
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	Rib1320ForAll13xxApps/rib-home/tools-home/rdmt/
RDMTLOGS Directory	Rib1320ForAll13xxApps/rib-home/tools-home/rdmt/RDMTLOGS
Temp Files Directory	Rib1320ForAll13xxApps/rib-home/tools-home/rdmt/RDMTLOGS/tmp
RIB App Builder rib-home Directory	/u00/Rib1320ForAll13xxApps/rib-home

The following are parameters for JMS Provider.

AQ JMS User ID	ribaq
AQ JMS Password	retek
AQ JMS Database Name	soa1
JMS HOST	mspdev38
JMS PORT	1521

The following are WebLogic parameters for JMX functions.

WebLogic/JMX Host	mspdev72
JMX Req Port	7003
WebLogic Instance name	rib-rms-wls-instance
WebLogic App Name	rib-rms
WebLogic User Name	weblogic
WebLogic Password	welcome1

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

User Name	rms
Password	retek
Database (SID)	orcl
Database Host	mspdev68
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 5.0. > java -version	The RDMT Java support classes require Java 5.0, 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 Rdm13.2ForAll13.x.xApps_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 Rdm13.2.1ForAll13.x.xApps_eng_ga.tar	Extract the tar file. It will create or over-write a directory call rdmt.

Task	Notes
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.
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.
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.) Note: 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.
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

The following is a checklist for Oracle Retail 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 1.6.
The RIB XSDs must be made network-accessible for RIHA to properly display RIB messages.	The RIB Functional Artifact URL (for example, http://mspdev85:7777/rib-func-artifact/payload/xsd/) should be accessible to all RIHA users.
Verify RIHA version is compatible with RIB version.	Due to changes in the underlying RIB architecture RIHA13.2 is compatible only with RIB13.0.X and higher.
Verify ADF runtime 11.1.1.0 or higher is available in WebLogic Application Server 10.3.3 is applied to the 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.
Deploying EAR	
Log in to the WebLogic Console	Log in to the WebLogic server console where RIHA will be installed.

Task	Notes
Setup Data Sources	<ol style="list-style-type: none"> 1. In the left pane, click Services > JDBC > DataSources > New. (Make sure the Lock and Edit option is selected to enable New.) 2. On the JDBC Data Source Properties page, Enter the following details: Name: riha-<app>DS JNDI: jdbc/riha-<app>DS (follow this naming convention) 3. Click Next. 4. Add database driver: Oracle's driver (Thin XA) for instance connections, versions 9.0.1, 9.2.0, 10, 11 5. Click Next. 6. On Transaction Options page, click Next. 7. On Connection Properties page, enter the following details: Database Name Host Name Port Database User Name: Password 8. Click Next. 9. On the Test Database Connection page, click Test Configuration and make sure the test is successful. 10. Click Finish. <p>Note: The jdbc resource must be targeted to the same managed server.</p>
Deploy EAR	<ol style="list-style-type: none"> 1. Download and untar the RibHospitalAdministration-web-13.2.0ForAll13.x.xApps_eng_ga. tar. 2. From the server console, select Deployment in Domain Structure from the left pane. Click Install. (Make sure the Lock and Edit option is selected if the Install button is inactive.) 3. Select Path of EAR. Select EAR file. Click Next. 4. In Choose Target Style, select Install this Deployment as an Application. Click Next. 5. Select deployment targets from one of the available servers. Click Next. 6. In Optional Settings: Check Custom Roles and Policies: Use only roles and policies that are defined in the Administration Console radio button in Security Option. Check I will make the deployment accessible from the following location option under Source Accessibility Option. Click Next. 7. Click Finish. Check logs for errors. <p>Note: If the admin server console issues a message to restart the server at this point, restart the server.</p>

Task	Notes
Post Deployment Configuration	
Security and Roles	<ol style="list-style-type: none"> 1. From the post deployment screen, select the Security tab. 2. Add role: RihaUserRole. 3. Click Finish. 4. Select UserRole -> Conditions. 5. Select User from the select box for Predicate List. Click Next. 6. Add user argument: <desired user name>. 7. Click Finish. Click Save. <p>Note: If the admin server console issues a message to restart the server at this point, restart the server.</p>
Policies	<ol style="list-style-type: none"> 1. From the select box for Predicate List, select the role created in the "Security and Roles" steps above. 2. Click Next. 3. Click Finish.
Security Realms	<ol style="list-style-type: none"> 1. In the left pane, Select Security Realms > myRealms 2. In the Users and Group Tab: Add new user and enter user name/password.
Test Deployment	<ol style="list-style-type: none"> 1. In the left pane, select Deployments > Applications. 2. 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.

Field Name	Example	Comment
Database Name	ora11g	AQ Database instance name
Host Name	linux1.us.oracle.com	Database system
Port	1521	Database listener port
Database User Name	RIBAQ	AQ user
Password	RIBAQ	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 <i>Oracle Retail Integration Bus Implementation Guide</i> .
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 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 IntegrationGatewayService13.2.0ForAll13.2.0Apps.tar	
Extract the tar file	>tar -xvf IntegrationGatewayService13.2.0forAll13.2.0Apps_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://mspdv170:18001 Update the WlsTarget property in this file to the 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 <i>Oracle Retail Integration Guide Operations Guide</i> .
Navigate to "Deployments" page.	Navigate to the "Deployments" page. Locate the igs-service on the "Summary of Deployments" page. Click the "+" next to the ig-service to expand the tree. Locate the "Web Services" section.

Task	Notes
Click any Web service to move to Settings for ASNInPublishingService page.	For example, ASNInPublishingService.
Select the Testing tab.	Click the + next to the service name to expand the tree. Locate the Test Client link. Select to move to the WebLogic Test Client page.
Select Ping operations.	Select the Ping operation. Fill in test data in the string arg0: text box. Click Ping . The test page will show the request message and the response message.

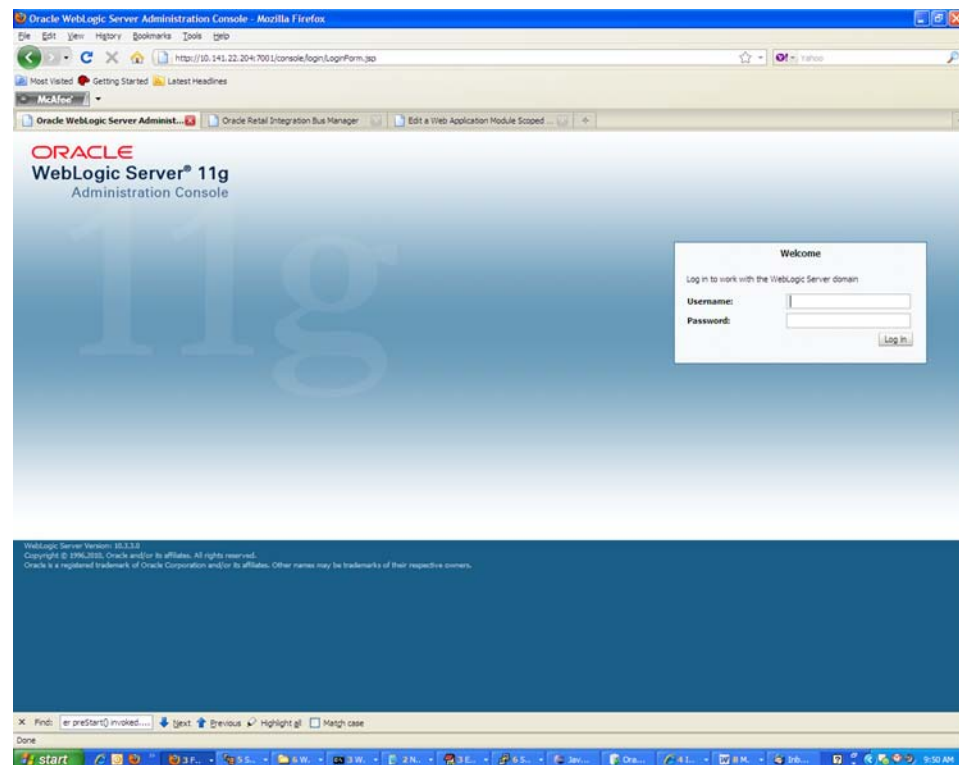
Appendix: Changing the RIB Administration GUI Password

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

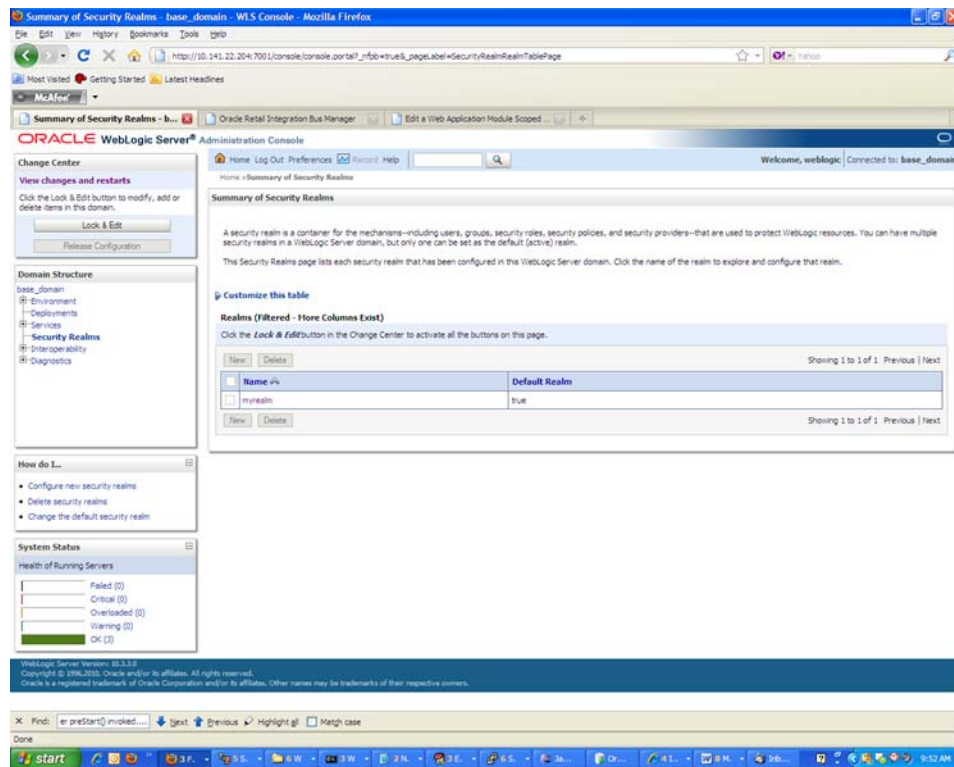
Procedure

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

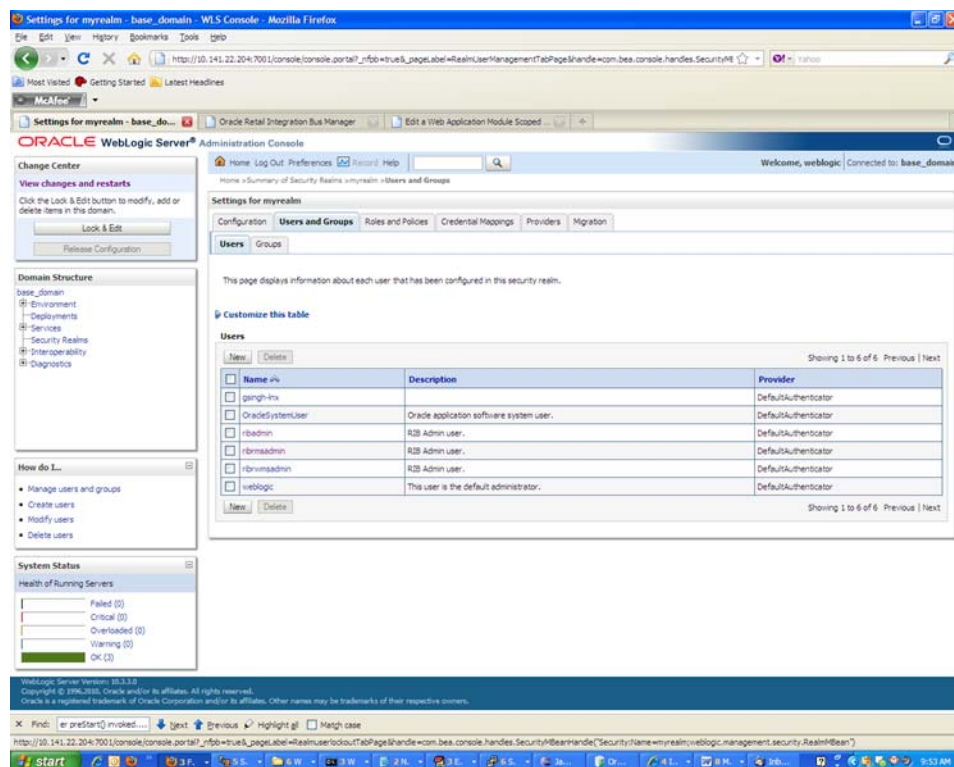
1. Log in to the WebLogic Server Administration Console.



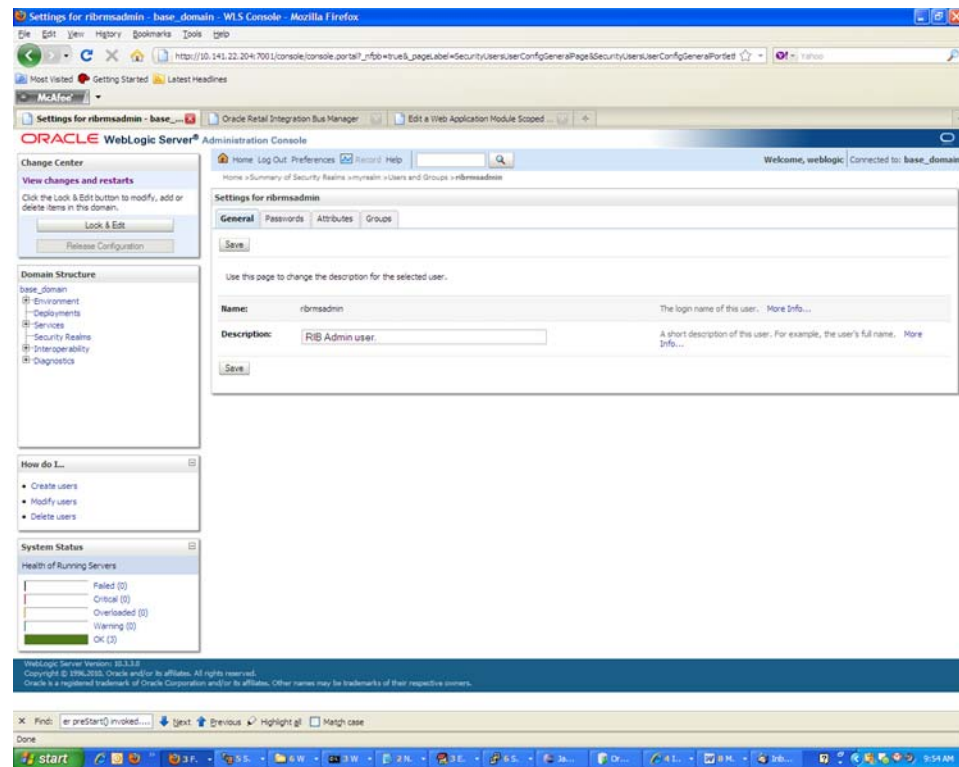
- In the left panel, click the **Security Realms** link.



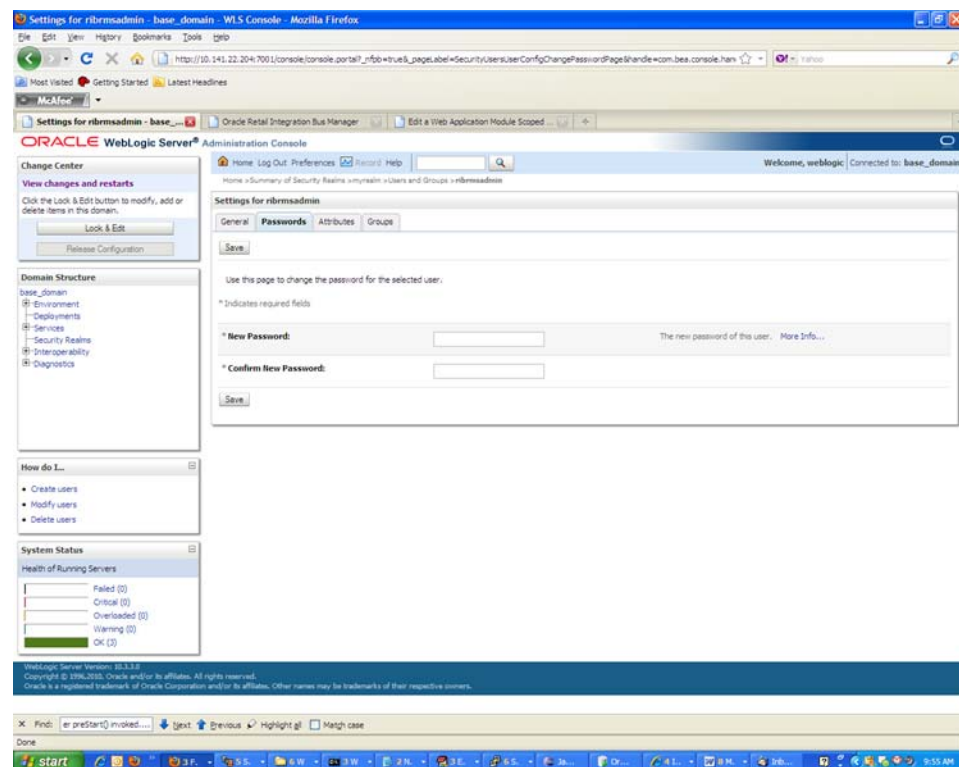
- Click the realm name. Go to the **Users and Groups** tab.



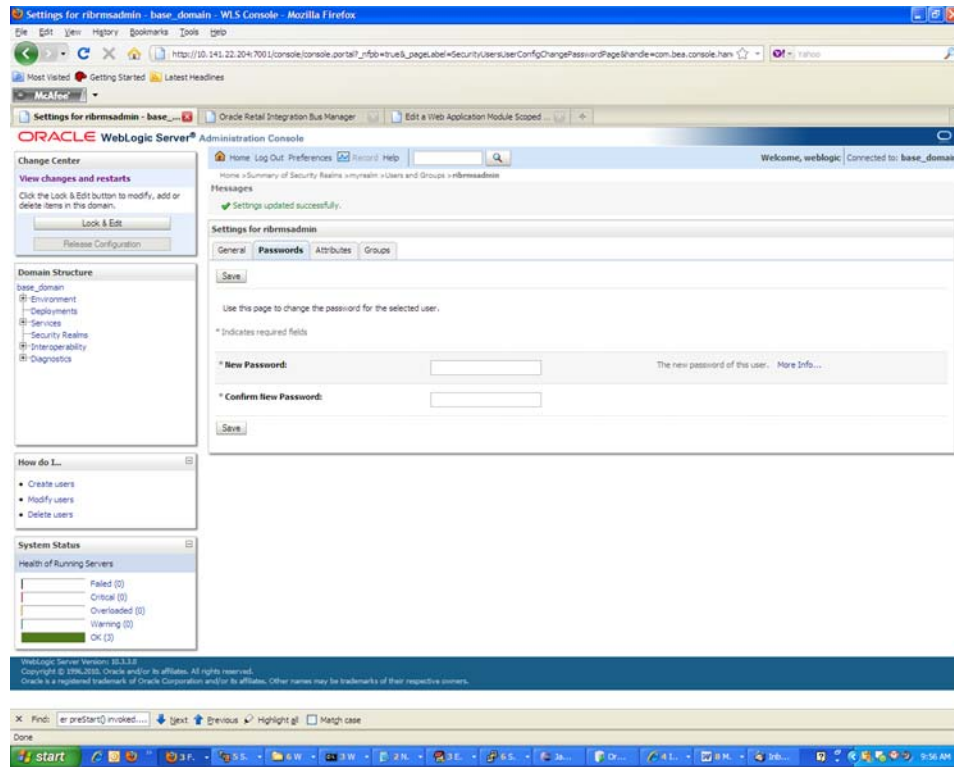
- Click the user name for which you want to change the password.



- Click the **Passwords** tab.



6. Enter the new password. Click **Save**.



Appendix: Installation Order

This appendix 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), Oracle Retail Sales Audit (ReSA), Optional: Oracle Retail Fiscal Management (ORFM).

Note: ORFM is an optional application for RMS if you are implementing Brazil localization.

2. Oracle Retail Service Layer (RSL)
3. Oracle Retail Extract, Transform, Load (RETL)
4. Oracle Retail Active Retail Intelligence (ARI)
5. Oracle Retail Warehouse Management System (RWMS)
6. Oracle Retail Allocation
7. Oracle Retail Invoice Matching (ReIM)
8. Oracle Retail Price Management (RPM)

Note: During installation of RPM, you are asked for the RIBforRPM provider URL. Because RIB is installed after RPM, make a note of the URL you enter. If you need to change the RIBforRPM provider URL after you install RIB, you can do so by editing the `remote_service_locator_info_ribserver.xml` file.

9. Oracle Retail Central Office (ORCO)
10. Oracle Retail Returns Management (ORRM)
11. Oracle Retail Back Office (ORBO) or Back Office with Labels and Tags (ORLAT)

12. Oracle Retail Store Inventory Management (SIM)

Note: During installation of SIM, you are asked for the RIB provider URL. Because RIB is installed after SIM, make a note of the URL you enter. If you need to change the RIB provider URL after you install RIB, you can do so by editing the `remote_service_locator_info_ribserver.xml` file.

- 13. Oracle Retail Predictive Application Server (RPAS)**
- 14. Oracle Retail Demand Forecasting (RDF)**
- 15. Oracle Retail Category Management (CM)**
- 16. Oracle Retail Replenishment Optimization (RO)**
- 17. Oracle Retail Analytic Parameter Calculator Replenishment Optimization (APC RO)**
- 18. Oracle Retail Regular Price Optimzation (RPO)**
- 19. Oracle Retail Merchandise Financial Planning (MFP)**
- 20. Oracle Retail Size Profile Optimization (SPO)**
- 21. Oracle Retail Assortment Planning (AP)**
- 22. Oracle Retail Item Planning (IP)**
- 23. Oracle Retail Item Planning Configured for COE (IP COE)**
- 24. Oracle Retail Advanced Inventory Planning (AIP)**
- 25. Oracle Retail Integration Bus (RIB)**
- 26. Oracle Retail Point-of-Service (ORPOS)**
- 27. Oracle Retail Markdown Optimization (MDO)**
- 28. Oracle Retail Clearance Optimization Engine (COE)**
- 29. Oracle Retail Analytic Parameter Calculator for Markdown Optimization (APC-MDO)**
- 30. Oracle Retail Analytic Parameter Calculator for Regular Price Optimization (APC-RPO)**
- 31. Oracle Retail Promotion Intelligence and Promotion Planning and Optimization (PI-PPO)**
- 32. Oracle Retail Workspace (ORW)**