

Oracle® Retail Integration Bus

Installation Guide

Release 13.1

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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 13.1 documentation set:

- *Oracle Retail Integration Bus Data Model*
- *Oracle Retail Integration Bus Implementation Guide*
- *Oracle Retail Integration Bus Integration Guide*
- *Oracle Retail Integration Bus Operations Guide*
- *Oracle Retail Integration Bus Release Notes*
- *Oracle Retail Integration Bus Hospital Administration Online Help*
- *Oracle Retail Integration Bus Hospital Administration User Guide*

Customer Support

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- <https://metalink.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 recreate
- Exact error message received
- Screen shots of each step you take

Review Patch Documentation

If you are installing the application for the first time, you install either a base release (for example, 13.0) or a later patch release (for example, 13.0.2). If you are installing a software version other than the base release, be sure to read the documentation for each patch release (since the base release) before you begin installation. Patch documentation can contain critical information related to the base release and code changes that have been made since the base release.

Oracle Retail Documentation on the Oracle Technology Network

In addition to being packaged with each product release (on the base or patch level), all Oracle Retail documentation is available on the following Web site (with the exception of the Data Model which is only available with the release packaged code):

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

Documentation should be available on this Web site within a month after a product release. Note that documentation is always available with the packaged code on the release date.

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 sub-system to the core RIB. The IGS should be installed after the core RIB components have been successfully installed and tested.

Note: See RIB Implementation Guide - Integration Gateway Services for details and considerations 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 install guides of the relevant Retail applications for more information.

Note: The instructions provided in this guide apply to a full installation of the RIB. The RIB 13.1 application cannot be installed over an existing version, such as 13.0.1.

RIB Installation Master Checklist

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

Task	Notes
Prepare the Oracle Application 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 the RIB will be integrating to are configured appropriately.	
"Information to Gather for the Install"	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 install.	RIB Functional Artifact URL JNDI URL
Complete the setup of RDMT using the same "Information to Gather for the Install"	During either of the Install 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 install, in order to minimize the chance of a faulty RIB installation.

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 Install"	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 RIB Operations Guide.

Note: See [Appendix C, "RIB Installation Checklists"](#) IGS Installation Check Lists while performing the installation to minimize the chance of a faulty installation.

Technical Specifications

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

Check Server Requirements

Supported On	Versions Supported
Database OS	<p>OS certified with Oracle Database 11gR1 Enterprise Edition. Options are:</p> <ul style="list-style-type: none"> ▪ Oracle Enterprise Linux 5 Update 2 (OEL 5.2) for Linux x86-64 ▪ AIX 6.1 TL1
Database Server	<p>Oracle Database 11g Release 1 Enterprise Edition (minimum 11.1.0.7 patchset required) with the following patches and components:</p> <p>Patches:</p> <ul style="list-style-type: none"> ▪ 7036284 (LOADJAVA RUN IN A DV ENVIRONMENT CANNOT LOAD CLASSES WITH A NAME LONGER THAN 128) ▪ 7378322 (ORA-00600: internal error code, arguments: [6704], [1], [532241], [532237]) ▪ 6800649 - (AIX only) when non-oracle user uses client utilities sqlldr/sqlplus/impdp/expdp, core dump is generated. Need to "relink all" after applying the patch <p>RAC only</p> <ul style="list-style-type: none"> ▪ 7697360 ORA-00600: internal error code, arguments: [k2vcbk_6], Database crashed during transaction recovery. <p>Components:</p> <ul style="list-style-type: none"> ▪ Oracle Database 10g ▪ Oracle Partitioning ▪ Oracle Net Services ▪ Oracle Call Interface (OCI) ▪ Oracle Programmer ▪ Oracle XML Development Kit ▪ ANSI compliant C compiler (certified with OS and database version) ▪ Perl compiler 5.0 or later <p>x-Windows interface</p>
AQ JMS Server	Oracle Database 11g (11.1.0.7)

Supported On	Versions Supported
Application Server OS	OS certified with Oracle Application Server 10g 10.1.3.4. Options are: <ul style="list-style-type: none"> Oracle Enterprise Linux 5 Update 2 (OEL 5.2) for Linux x86-64 AIX 6.1 TL1
Application Server	Oracle Application Server 10g 10.1.3.4 with the following patches: <ul style="list-style-type: none"> 5632264 (NEED UPDATED TIMEZONE FILES (VERSION 4) FOR MORE DST RULE CHANGES)

Note: See also the Oracle® Database Administrator's Guide 10g Release 2 (10.2) and the Oracle® Application Developer's Guide - Fundamentals 10g Release 2 (10.2).

RIB Integration Gateway Services (IGS) Supported Operating Systems

Supported On	Version Supported
Oracle WebLogic Server OS	OS certified with OracleWebLogic Server 10 g Release 3 (10.3). Options are AIX 6.1 and OEL 5 update 2.
Oracle WebLogic Server	Oracle WebLogic Server 10g Release 3 (10.3) with the following patches: 3QHE MHL8 (5KXF, 9V4T, GFKC, GP7Q, KJQR)

Supported Oracle Retail Products

Supported On	Version Supported
RWMS 13.1	RIB 13.1
RMS 13.1	RIB 13.1
RPM 13.1	RIB 13.1
SIM 13.1	RIB 13.1

WARNING: For AIX, the IBM JDK located at ORACLE_HOME/jdk is not supported by the RIB. Make sure that IBM Java SDK 1.5.0 build pap32dev-20080315 (SR7) or newer is installed on the RIB system and configured as the JAVA_HOME for the RIB OC4J instances.

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. Since AQ is hosted by 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 (ojdbc5dms.jar) for all JDBC connections, including RAC.

The RIB and Oracle Application Server Cluster

The RIB uses JMS server for message transportation between the integrating retail applications. Since the RIB must preserve the message publication and subscription ordering, rib-<app>s deployed in Oracle Application 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" oc4j instance of an Oracle Application Server that is clustered (active-passive). In this configuration, even though rib-<app> is deployed in an OAS cluster, multiple instance of same rib-<app> is not running at the same time as there is only one oc4j instance where the rib-<app> is deployed and so RIB can still preserve message ordering. The maximum number of JVM (Java Virtual Machine) hosting a rib-<app> oc4j instance must always be configured to be 1 for the same reason of preserving 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 RIB Implementation Guide for the considerations and planning steps needed for a RIB deployment.

Planning may include the decision to employ multiple JMS servers, which can isolate flows for performance and operational QoS. For more information, see the section, "[Preinstallation Steps for Multiple JMS Server Setup](#)", in Chapter 4 of this guide.

Determine the UNIX User Account to Install the Software

The user account that installs the RIB is an important consideration. The options and pros and cons are discussed in the RIB Implementation Guide.

Note: See RIB Implementation Guide - Pre-Implementation Considerations.

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 RIB Implementation Guide - Recommended Deployment Options.

The location from where 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 RIB Implementation Guide - RIB Software Life Cycle.

Prepare Oracle Application Server for RIB Components

This section describes the process of preparing the Oracle Application Server(s) to install the rib-<app> Java EE application.

Create the RIB OC4J Instances

All of the RIB components are Java EE and run in OC4J instances in the Oracle Application Server. The rib-<app> Java EE application runs in its own oc4j server instance called "rib-<app>-oc4j-instance". Each rib-<app> application requires a separate OC4J instance that is not shared with any other application.

Use the following steps to create a new oc4j instance for rib-<app> and configure it to rib's requirement.

Note: For details on using commands to create an oc4j instance, see the Oracle® Application Server Administrator's Guide 10g Release 3 (10.1.3.3).

1. Log in to the machine where OAS was installed with the operating system user that was used to install the Oracle Application Server (OAS).

Make sure the OAS required environment variables are set. Read the OAS documentation for environment variables information.

2. Create the rib-<app>-oc4j-instance by executing the following command:

```
$ORACLE_HOME/bin/createinstance -instanceName rib-<app>-oc4j-instance
```

Replace <app> with the actual value of the RIB application for the associated retail application. Acceptable values for <app> are "rms", "rwms", "tafr", "sim", and "rpm".

There is one RIB specific oc4j instance that must be created regardless of the other application deployment choices.

- rib-func-artifact-oc4j-instance. (It is recommended, but not required, that this naming convention be followed.)

There is one RIB specific oc4j instance that must be created depending on the deployment configuration. If RMS is installed with RWMS and/or SIM then the TAFR's must be installed.

- rib-tafr-oc4j-instance. (It is recommended, but not required, that this naming convention be followed).

These are the optional application instances depending on the deployment choices. It is recommended, but not required, that you use the following naming convention:

- rib-rms-oc4j-instance
- rib-rpm-oc4j-instance
- rib-sim-oc4j-instance
- rib-rwms-oc4j-instance

3. Enter "oc4jadmin" for the oc4j instance password when prompted. This password can be anything you like as long as it follows OAS standards.

Note: For OAS to manage the oc4j instance it is required that all the passwords are the same for all oc4j instances managed by a single OAS instance. See OAS documentation for further details.

Configure the rib-<app>-oc4j-instance

Edit \$ORACLE_HOME /j2ee/rib-<app>-oc4j-instance/config/server.xml and add the attribute:

global-jndi-lookup-enabled="true" to <application-server> element.

For example:

```
<application-server xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="http://xmlns.oracle.com/oracleas/schema/application
-server-10_1.xsd" application-directory="../applications"
check-for-updates="adminClientOnly"
deployment-directory="../application-deployments"
connector-directory="../connectors"
global-jndi-lookup-enabled="true"
schema-major-version="10" schema-minor-version="0" >
```

Edit \$ORACLE_HOME/opmn/conf/opmn.xml file and add the following properties to the rib-<app>-oc4j-instance definition.

Note: For details on OPMN usage and configuration, see the Oracle® Process Manager and Notification Server Administrator's Guide 10g Release 3 (10.1.3.3).

Note: All the properties below must be applied only to rib-<app>-oc4j-instance definition.

1. Specify the JVM's min and max heap size.

```
-Xms500M -Xmx900M
```

Note: These are minimum values. Consult with the local system administrators for site values.

2. Set the JMX security to off:

```
-Doc4j.jmx.security.proxy.off=true
```

3. Specify -userThreads to oc4j-options element.

```
<data id="oc4j-options" value="-userThreads"/>
```

Example: After updating the opmn.xml for rib-<app>-oc4j-instance definition, the xml section should look something like the following:

```
<process-type id="rib-rpm-oc4j-instance" module-id="OC4J" status="enabled">
<module-data>
<category id="start-parameters">
<data id="java-options" value="-server
-Djava.security.policy=$ORACLEHOME/j2ee/rib-rms-oc4j-instance/config/java2.poli
```

```
cy
-Djava.awt.headless=true -Dhttp.webdir.enable=false
-Doc4j.jmx.security.proxy.off=true
-Dcom.sun.management.jmxremote -XX:MaxPermSize=128M -Xms512M -Xmx1024M
-XX:AppendRatio=3"/>
<data id="oc4j-options" value="--userThreads"/>
</category>
```

4. Make sure that numprocs attribute for the process-set element for rib-<app>-oc4j-instance is set to 1.

```
<process-set id="default_group" numprocs="1"/>
```

5. Reload the new configuration by executing the following command:

```
>$ORACLE_HOME/opmn/bin/opmnctl reload
```

6. Start the new rib-<app>-oc4j-instance by executing the following command:

```
>$ORACLE_HOME/opmn/bin/opmnctl startproc
  process-type="rib-<app>-oc4j-instance"
```

7. Verify the oc4j instance status and make sure it starts properly by executing the command below. Make sure the status is "Alive" for the oc4j instance you configured.

```
>$ORACLE_HOME/opmn/bin/opmnctl status -l
```

Database Installation Tasks

There are several tasks that need to 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, e.g. 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 RIB Implementation Guide - "Pre-Implementation Considerations for Multibyte Deployments."

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"](#) in this guide.

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 RIB Operations Guide - RIB App Builder rib-home.

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 the RIB Implementation Guide - RIB Software Life Cycle.

Verify that Database XA Resources are Configured for RIB

RIB uses two phase commit transaction protocol (XA) to maintain consistency between the RIB Hospital database, application database and the JMS server. The Oracle database XA resources must be configured in order to participate in XA transaction. Check to see that the XA scripts have been run on the database to make it XA transaction aware. The initXA.sql script needs to be run before XA transactions will work. These are usually installed by default in 10gR2. Use the grants shown below to enable XA transaction 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 to for PL/SQL applications to 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 RIB 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 RIB 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_DEFAULT =
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 OAS server where `rib-func-artifact.war` will be deployed.

Create RIB TAFR RIB Hospital

In RIB 13, there is a separate RIB Hospital for the rib-tafr application.

1. Created 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 ";
```

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. AQ 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 install. 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 RIB Implementation Guide - Pre-Implementation Considerations - JMS Server Considerations.

Note: See the RIB Implementation Guide - Deployment Architectures. See the RIB Operations Guide - JMS Provider Management, The RIB on AQ JMS.

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 "AQJMS"  
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";
```

Note: See Also:

Oracle® Database Administrator's Guide 10g Release 2 (10.2)

Oracle® Streams Advance Queuing User's Guide and Reference 10g Release 2 (10.2)

Run 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 install, all tasks are recommended.

- Run the Preparation Phase to unpack files, prepare the workspace, and perform preinstallataion verifications.
- Generate the rib-deployment-env-info.xml file, which configures the RIB install.
- 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 RIB Operations Guide.

Expand the RIB Kernel Distribution

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 (RibKernel13.1.0ForAll13.x.xApps_eng_ga.jar) into the workspace and extract its contents.
3. Change directories to Rib13.1ForAll13xxApps/rib-home. This location will be referred to as <RIB_HOME> for the remainder of this chapter.

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 Chapter 6, "JMS Provider Management," in the RIB 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 will be using only one JMS server.

1. Change directories to <RIB_HOME>/download-home/bin, and run the check-version-and-unpack.sh script.
2. Determine the family that needs to be configured for multiple JMS.
3. Examine the rib-integration-flows.xml to identify all the RIB applications in the full integration flow.
4. Ensure that a new AQ JMS database server (not a schema) is set up. (For information on how to set up a new AQ JMS, see "Prepare Oracle AQ JMS Provider" in Chapter 3, "Database Installation Tasks".)
5. 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.

6. Add one or more JMS server(s) by updating rib-deployment-env-info.xml,
7. 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 apply to this step:
 - rib-<app>-adapters.xml
 - rib-<app>-adapter-resources.propertiesFor more information on this step, see the RIB Operations Guide.
8. Once Step 7 is finished, the installer tool does the following to complete preinstallation activities:
 - Compiles all the 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<mjs2>. This step configures additional JMS servers.
 - Deploys (\$RIB_HOME/deployment-home/bin/rib-app-deployer.sh rib-<app>).

How to Run the RIB Application Installer

1. Expand the RIB Kernel distribution as described above.
2. Download the RIB Functional Artifacts distribution (RibFuncArtifact13.1ForAll13.1Apps_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 (Rdmt13.1ForAll13.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 will allow 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 will include 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 1.5 JDK. If the <RIB_HOME> workspace is located on the same server as the Application Server, then it is recommended to set the JAVA_HOME to \$ORACLE_HOME/jdk.
7. 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.
8. Make sure that all OC4J instances that you intend to deploy to are currently running.
9. Change directories to the <RIB_HOME> directory.
10. Run the rib-installer.sh script. The RIB installer appears.

Note: [Appendix A](#) contains details on every screen and input field in the installer.

11. After the RIB installation is complete, it will launch the Oracle Configuration Manager (OCM) installer if possible.

Note: The Oracle Retail OCM Installer packaged with this release does not install the latest version of OCM. Oracle Retail recommends that retailers upgrade to the latest version of OCM from ARU. For more information, see Metalink Note ID # 559539.1. See also the Oracle Configuration Manager Installer Guide, which describes the procedures and interface of the Oracle Retail Oracle Configuration Manager Installer that retailers run near the completion of the installation process:

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

12. Restart the rib-<app>-oc4j-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 oc4j instance.
13. 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, then you should manually run the RDMT at this time to verify the installation.

Run RDMT to Verify the Installation

The RIB Diagnostic and Monitoring Tools (RDMT) should be used at this time to verify the RIB installation. Please refer to the RIB Operations Guide - Diagnostic and Monitoring Tools for instructions 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. It is not recommended to modify this file 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, please refer to the troubleshooting guide in Appendix D 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

Oracle Application Tasks

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

- Functional Artifact URL
- JNDI URL

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

1. The RDMT Java support classes require Java 5.0. Install 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 (Rdmt13.1ForAll13.x.xApps_eng_ga.tar) and extract it. >tar svf Rdmt13.1ForAll13.x.xApps_eng_ga.tar.
4. cd to the rdmt directory and execute the configbuilder.sh script supplied with the toolkit. >./ configbuilder.sh

- 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 will prompt for the configuration settings need to run the tools in the toolkit.

- The installation will automatically configure 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, answer yes to configure additional rib-<ap>s. It is recommended that you configure all the rib-apps that have been installed in the RIB Installation.
- Run the RibConfigReport. This report will run a battery of tests that will validate the RIB components installed.

Information to Gather for Installation in Remote Server

The following are necessary directory parameters.

Parameters	Setting
RDMT Home Directory	Rib1301ForAll13xxApps/rib-home/tools-home/rdmt/
RDMTLOGS Directory	Rib1301ForAll13xxApps/rib-home/tools-home/rdmt/RDMTLOGS
Temp Files Directory	Rib1301ForAll13xxApps/rib-home/tools-home/rdmt/RDMTLOGS/tmp
RIB App Builder rib-home Directory	/u00/Rib1301ForAll13xxApps/rib-home

The following are parameters for the JMS provider.

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

The following are OC4J parameters for JMX functions:

Parameter	Setting
OC4J/JMX Host	mspdev72
JMX Req Port	6003
OC4J Instance name	rib-rms-oc4j-instance

Parameter	Setting
OC4J App Name	rib-rms
OC4J User Name	oc4jadmin
OC4J Password	welcome1

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

Parameter	Setting
User Name	rms
Password	rettek
Database URL	jdbc:oracle:thin:@host-name:port:sid

RIB Hospital Administration Tool

The RIB Hospital Administration Tool (RIHA) is a Java executable/application provided to perform RIB administration functions in the RIB Hospital database.

Prerequisites

The minimum and preferred Java Runtime Engine (JRE) version to use with RIHA is 1.5 This JRE must be installed on the host where RIHA will be installed prior to running the configuration script.

Installation Steps

RIHA can be installed on either a PC running a Windows operating system or in a UNIX environment. It is suggested, but not required, that it be installed where RIB13 has already been installed and configured.

1. Copy the Riha13.1ForAll13.x.xApps_eng_ga.tar file to the location where RIHA will be installed.

Windows	C:\RIB_Tools\RIHA
UNIX	\$RIB_HOME/tools-home/riha

2. Decompress the tar file with an archive utility (for example, WinZip for windows or unzip for UNIX). This will extract all RIHA files into a directory named Riha13.1ForAll13.x.xApps_eng_ga.
3. Downloading Hibernate.

RIHA uses Open Source O-R mapping tool called Hibernate (<http://www.hibernate.org>). Due to licensing limitation RIHA cannot ship Hibernate along with its package, so hibernate 2.1.8 has to be download by the person installing RIHA. RIHA has been certified with only hibernate 2.1.8, do not download any other Hibernate version.

Download Hibernate (hibernate-2.1.8.zip) and extract the hibernate2.jar file from inside the zip file. Copy the hibernate2.jar to appropriate directory shown in the table below.

Windows	C:\RIB_Tools\RIHA\Riha13.1ForAll13.x.xApps_eng_ga\external-lib
UNIX	\$RIB_HOME/tools-home/riha/Riha13.1ForAll13.x.xApps_eng_ga/external-lib

- Go to the appropriate "bin" directory and execute the RIHA configuration executable file. This script, located in the path displayed in the table below, will run the rest of the installation and configuration process.

Windows	C:\RIB_Tools\RIHA\Riha13.1ForAll13.x.xApps_eng_ga\bin\riha-config.bat
UNIX	\$RIB_HOME/tools-home/riha/Riha13.1ForAll13.x.xApps_eng_ga/bin/riha-config.sh

Create a user login. RIHA provides users with access to information contained in the applications RIB Hospital database. Users can view and modify this data and control the variables that make possible the feedback of messages into the system. Because of this, limiting the accessibility to this tool is imperative. RIHA supports the creation of user logins to guarantee that only designated users can execute this tool.

The following prompts ask the user to enter the credentials to create a new user login for RIHA. More than one user can be created.

```
Starting RIHA configuration utility...
```

```
Create a new user login:
```

```
Enter User Id: dannich
```

```
Enter User First Name: Daniel
```

```
Enter User Last Name: Nicholson
```

```
Enter password: <password not shown>
```

```
Verify password: <password not shown>
```

```
User dannich created.
```

```
Do you want to create another user? (y/n): n
```

```
Creating hibernate configuration files...
```

```
You can access multiple Error Hospital databases by setting multiple configuration files (even for the same product). Select [D]one when finished.
```

After creating the user, it checks if RIHA 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. It configures for RIB hospital for the <app>s depending upon the applications in scope as defined in rib-deployment-env-info.xml.

User dannich created.

Do you want to create another user? (y/n): n

rib home path is detected:\dannich\rib-home\

Application (rib-rms) is in scope. Generating hibernate configuration file
....
Loaded the rib-deployment-env-info.xml file successfully.
Configuration file is generated successfully

Application (rib-rwms) is in scope. Generating hibernate configuration file
....
Loaded the rib-deployment-env-info.xml file successfully.
Configuration file is generated successfully

Application (rib-rpm) is in scope. Generating hibernate configuration file
....
Loaded the rib-deployment-env-info.xml file successfully.
Configuration file is generated successfully

Application (rib-sim) is in scope. Generating hibernate configuration file
....
Loaded the rib-deployment-env-info.xml file successfully.
Configuration file is generated successfully

Application (rib-tafr) is in scope. Generating hibernate configuration file
....
Loaded the rib-deployment-env-info.xml file successfully.
Configuration file is generated successfully

Application (rib-aip) is not in scope. Hence hibernate configuration file is not generated.

If RIHA is 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. It configures for RIB hospital for the <app>s depending upon the applications in scope as defined in rib-deployment-env-info.xml

Do you want to create another user? (y/n): n
Rib home is not detected.

Is there rib-home directory structure in the system?N/Y: y
Enter the path of the rib-home directory: \dannich\rib-home\

Application (rib-rms) is in scope. Generating hibernate configuration file
....
Loaded the rib-deployment-env-info.xml file successfully.
Configuration file is generated successfully

```
Application (rib-rwms) is in scope. Generating hibernate configuration file
....
Loaded the rib-deployment-env-info.xml file successfully.
Configuration file is generated successfully
```

```
Application (rib-rpm) is in scope. Generating hibernate configuration file
....
Loaded the rib-deployment-env-info.xml file successfully.
Configuration file is generated successfully
```

```
Application (rib-sim) is in scope. Generating hibernate configuration file
....
Loaded the rib-deployment-env-info.xml file successfully.
Configuration file is generated successfully
```

```
Application (rib-tafr) is in scope. Generating hibernate configuration file
....
Loaded the rib-deployment-env-info.xml file successfully.
Configuration file is generated successfully
```

```
Application (rib-aip) is not in scope. Hence hibernate configuration file is
not generated.
```

If RIHA was extracted in a remote server, the user is presented with a list of standard Retail applications to choose from and configure the database connection where the RIB Hospital of each application resides. It also prompts the user for the server hosting the XSD files for the RIB messages. Once the necessary information is entered, the user is returned to the Retail applications list to either configure a new connection or complete this process. Version 13.1 of the RIHA allows users to either enter a standard database JDBC connection string or a RAC database JDBC connection URL.

a. Standard database connection string setup process:

```
Please choose a product for configuring database information:
```

- 1) AIP - Advanced Inventory Planning
- 2) SIM - Store Inventory Management
- 3) RMS - Retail Merchandising System
- 4) RPM - Retail Price Management
- 5) RWMS - Retail Warehouse Management System
- 6) TAFR - TAFR Hospital Tables

```
([1], [2], [3], [4], [5], [6], [D]one): 3
```

```
Please choose the type of database for configuring database information:
```

- (1)RAC Database
- (2)Non-RAC Database

```
([1], [2]):2
```

```
Enter the connection URL [E.g: jdbc:oracle:thin:@mspdev57:1521:orcl ] :
```

```

jdbc:oracle:thin:@mspdev94:1521:dvolr051

Enter user name: rmsseint121user

Enter password: <password not shown>

Verify password: <password not shown>

Enter name of server hosting xsd files (e.g.: mspdev05.retek.int):
http://mspdev85

Enter port number of server hosting xsd files (e.g.: 8080): 7777

Please choose a product for configuring database information:

1) AIP - Advanced Inventory Planning
2) SIM - Store Inventory Management
3) RMS - Retail Merchandising System
4) RPM - Retail Price Management
5) RWMS - Retail Warehouse Management System
6) TAFR - TAFR Hospital Tables

([1], [2], [3], [4], [5], [6], [D]one): D

```

b. RAC compatible database connection URL setup process:

```

Please choose a product for configuring database information:

1) AIP - Advanced Inventory Planning
2) SIM - Store Inventory Management
3) RMS - Retail Merchandising System
4) RPM - Retail Price Management
5) RWMS - Retail Warehouse Management System
6) TAFR - TAFR Hospital Tables

([1], [2], [3], [4], [5], [6], [D]one): 3

Please choose the type of database for configuring database information:

(1)RAC Database

(2)Non-RAC Database

([1], [2]):1

Enter the connection URL [E.g:
jdbc:oracle:thin:@(DESCRIPTION =(ADDRESS_LIST =
(ADDRESS = (PROTOCOL = TCP)(HOST = mspvip72)(PORT = 1521))
(ADDRESS = (PROTOCOL = TCP)(HOST = mspvip73)(PORT = 1521))
(LOAD_BALANCE = yes))(CONNECT_DATA =(SERVICE_NAME = dvolr02))) ] :

jdbc:oracle:thin:@(DESCRIPTION =(ADDRESS_LIST =(ADDR
ESS = (PROTOCOL= TCP)(HOST = mspvip94) (PORT = 1521))(ADDRESS = (PROTOCOL =
TCP)(HOST = mspvip95)(PORT = 1521))(LOAD_BAL
ANCE = yes))(CONNECT_DATA = (SERVICE_NAME = dvolr05)))

Enter user name: rmsseint121user

Enter password: <password not shown>

```

Verify password: <password not shown>

Enter name of server hosting xsd files (e.g.: mspdev05.retek.int):
http://mspdev85

Enter port number of server hosting xsd files (e.g.: 8080): 7777

Please choose a product for configuring database information:

- 1) AIP - Advanced Inventory Planning
- 2) SIM - Store Inventory Management
- 3) RMS - Retail Merchandising System
- 4) RPM - Retail Price Management
- 5) RWMS - Retail Warehouse Management System
- 6) TAFR - TAFR Hospital Tables

([1], [2], [3], [4], [5], [6], [D]one): D

- 5. Finally the user is prompted to enter the full path for the Web browser to use when displaying the online help.
- 6. RIHA is configured and ready. Execute the RIHA start executable file to start using the RIB Hospital Administration tool.

Windows	C:\RIB_Tools\RIHA\Riha13.1ForAll13.x.xApps_eng_ga\bin\riha.bat
UNIX	\$RIB_HOME/tools-home/riha/Riha13.1ForAll13.x.xApps_eng_ga/bin/riha.sh

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 13.1. So it should be installed only if there is a requirement to do so.

Note: See the RIB Implementation Guide - Integration Gateway Services for details and considerations before attempting installation.

Prerequisites

The RIB Integration Gateway Service (IGS) component requires Oracle WebLogic Server 10g Release 3 (10.3).

Before installation, read the RIB Implementation Guide for the considerations and planning steps needed for the RIB IGS deployment to WebLogic Server.

Note: This release of IGS does not support message flows that are configured for multiple JMS. See the RIB Implementation Guide for details.

Prepare Oracle WebLogic Server

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

Note: See the Oracle® WebLogic Server 10g Release 3 (10.3) Installation Guide.

Note: For illustrations of the applications screens used to prepare the Oracle WebLogic Server, see Appendix D - "Integration Gateway Services .ear File Installation."

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.

Note: See Oracle® WebLogic Server 10g Release 3 (10.3) xxxx.

Create RIB AQ JMS Datasource for IGS

1. Verify that RIB JMS is installed, configured, and running.
2. Using the WebLogic Server Administration Console, create a datasource.

Note: See Oracle® WebLogic Server 10g Release 3 (10.3) Documentation - Administration.

- a. Navigate to datasources screen using Services > JDBC > Data Sources menu.
- b. Click on New and enter the following values in the respective fields:

Field Name	Value
Name	igs-ojms-managed-datasource
JNDI Name	IGSOracleAQJmsDs
Database Type	Oracle
Database Driver	Oracle's Driver(thin)

- c. Uncheck "Supports Global Transactions."

- d. Fill in the database 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

- e. Verify the configuration details.
- f. Test configuration to make sure that the server is able to connect to the database.
- g. Select the target server. This is the managed server created for the igs-service. For example, igs-service_wls_instance.
- h. Click Finish. The newly created datasources should show in the list of datasources.

Prepare to Deploy the IGS Application

1. Download the IntegrationGatewayService13.1.0ForAll13.1.0Apps.tar. The recommended location is the reserved location in rib-home. For example: /Rib1310ForAll13xxApps/rib-home/tools-home/integration-bus-gateway-services

Note: The files must be accessible to the Oracle® WebLogic Server Administration during the deployment step. Accordingly, they must be located on either the WebLogic Server host, or on the host where the browser used to connect to the Administration Console is invoked.

2. Extract the contents of the .tar file.


```
> tar -xvf IntegrationGatewayService13.1.0ForAll13.1.0Apps_eng_ga.tar
```

Deploy the IGS Application

Using the Oracle® WebLogic Server Administration Console, complete the following steps.

Note: See Oracle® WebLogic Server 10g Release 3 (10.3) Documentation - Administration .

1. Navigate to the Deployments page.
2. Click Install.

Note: If the application has already been installed, see the section, "[Redeploy the IGS Application](#)".

3. The "Locate deployment to install and prepare for deployment" page appears. Follow the instructions to locate the igs-service.ear file on the WebLogic server host.

If rib-home is located on a different host than the Oracle WebLogic Server, follow these instructions to upload the file:

- a. Select upload files.
 - b. On the "Upload a Deployment to the admin server" page, use the browse button to locate the igs-service .ear file in the "Deployment Archive."
4. Select the igs-service.ear.
 5. Click Next and move to "Choose targeting style."
 6. Select "Install this deployment as an application."
 7. Click Next and move to "Optional Settings."
 8. Click Next and move to "Review your choices and click Finish."
 9. Select "No, I will review the configuration later."
 10. Click Finish to deploy the application.

Redeploy the IGS Application

If the igs-service application has already been deployed, complete the following steps:

1. If the igs-service application is running, select "Stop" and "When work completes" or "Force Stop Now." The choice depends on the environment. The recommended option in every case is "When work completes."
2. Select "Delete."
3. The "Summary of Deployments" should now not include the igs-service.
4. Resume the steps in the ["Deploy the IGS Application"](#) section, above.

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: For the Test Client link to be visible the server must be in Development mode. For more details on this and the use of the Administration Console Appendix D - "Integration Gateway Services .ear File Installation."

Note: See Oracle® WebLogic Server 10g Release 3 (10.3) Documentation - Administration Console.

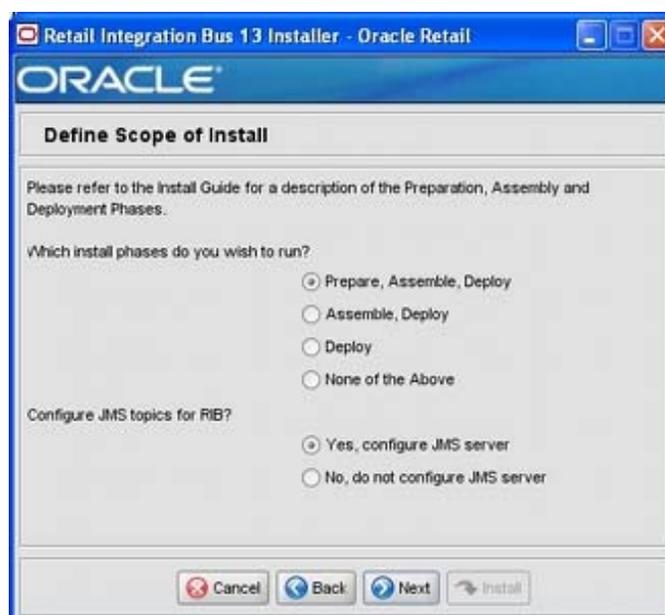
1. Navigate to the "Deployments" page.
2. Locate the igs-service on the "Summary of Deployments" page.
3. Click the "+" next to the ig-service to expand the tree.
4. Locate the "Web Services" section.

5. Click on any web service (for example, "ASNInPublishingService") to move to a "Settings for ASNInPublishingService" page.
6. Select the "Testing" tab.
7. Click the "+" next to the service name to expand the tree.
8. Locate the "Test Client" link and select to move to the "WebLogic Test Client" page.
9. Select "Ping" operation. Fill in test data in string arg0: text box and click the Ping button.
10. The test page will show the request message and the response message.

Note: For more detailed verification testing, refer to the RIB Operations Guide - Integration Gateway Service Testing.

RIB Application Installer Screens

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



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

Field Title	Which install phases do you wish to run?
Example	
Notes	

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
Destination	
Example	
Notes	

Screen: Provide Inputs to Installer?



Fields on this screen

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

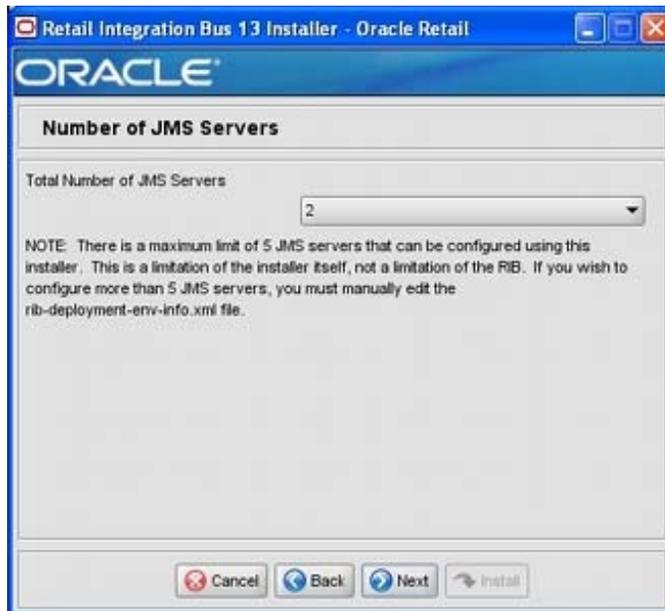
Screen: JMS Server Configuration



Fields on this screen:

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.
Destination	
Example	
Notes	

Screen: Number of JMS Servers



Fields on this screen:

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.
Destination	
Example	2
Notes	

Screen: JMS Server 1



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

Fields on this screen:

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

Screen: JMS Server 1 Details



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

Fields on this screen:

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

Field Title	AQ1 JMS URL
Field Description	
Destination	rib-deployment-env-info.xml
Example	single instance thin client: jdbc:oracle:thin:@myhost:1521:mydb
Notes	

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

Field Title	AQ1 JMS User
Field Description	
Destination	rib-deployment-env-info.xml
Example	RIB_AQ
Notes	

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

Screen: Number of Oracle AS Installations



Fields on this screen:

Field Title	Total Number of Application Server Installations
Field Description	How many different Oracle Application Servers will your rib-<app> applications be installed to? The installer uses this information to determine how many App Servers it needs to request inputs for.
Destination	
Example	1
Notes	

Screen: App Server <X> Details



Note: The installer will request inputs for as many Application Servers as were chosen on the previous screen. There will be one input screen for each App Server.

Fields on this screen:

Field Title	App Server Instance Name
Field Description	Your App Server's instance name can be found in this file: \$ORACLE_HOME/config/ias.properties In the ias.properties file, it is called "IASname."
Destination	rib-deployment-env-info.xml
Example	1013AS_1.my_server.my_domain.com
Notes	

Field Title	App Server Home
Field Description	The format should be: <user>@<host>:<ORACLE_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 <ORACLE_HOME> is the filesystem path to the ORACLE_HOME
Destination	rib-deployment-env-info.xml
Example	myuser@myhost:/path/to/oracle/home

Field Title	App Server Home
Notes	

Field Title	OPMN Request Port
Field Description	The request port can be found in this file: \$ORACLE_HOME/opmn/conf/opmn.xml <port local="6100" remote="6200" request="6003"/>
Destination	rib-deployment-env-info.xml
Example	6003
Notes	

Field Title	OHS HTTP Port
Field Description	The HTTP port can be found in this file: \$ORACLE_HOME/Apache/Apache/conf/httpd.conf
Destination	rib-deployment-env-info.xml
Example	7777
Notes	

Field Title	Java Home
Field Description	The JDK in the ORACLE_HOME. It can be found here: \$ORACLE_HOME/jdk
Destination	rib-deployment-env-info.xml
Example	/path/to/oracle/home/jdk
Notes	

Screen: Choose Apps to Install



Fields on this screen:

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 which inputs to request from the user to create the rib-deployment-env-info.xml file.
Destination	rib-deployment-env-info.xml
Example	
Notes	

Screen: Choose App Server for rib-<app>

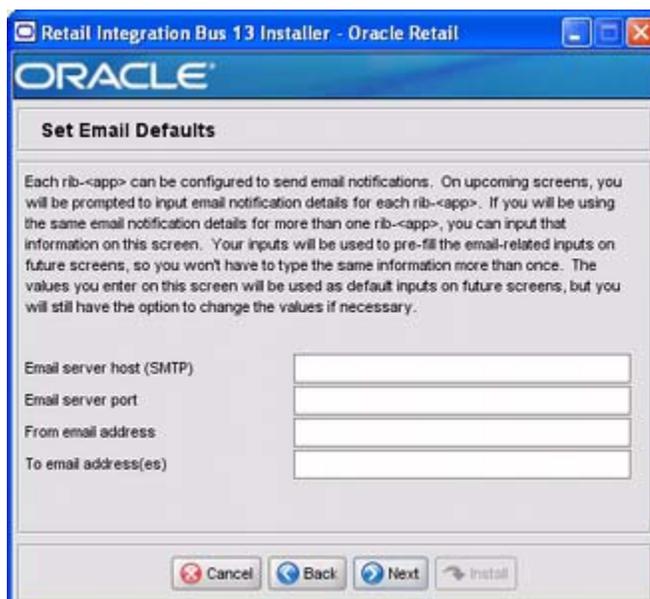


Note: The screenshot above is for rib-sim. There will be a similar screen for rib-func-artifacts and for each other rib-<app> that you have chosen to install.

Fields on this screen:

Field Title	Select the App Server where rib-<app> will be nstalled
Field Description	Used by the installer's build.xml to determine which application server to associate the rib-<app>'s OC4J instance with. Note: The installer will request this information for rib-func-artifact, even if you have chosen not to install rib-func-artifact at this time. The reason is because the rib-func-artifact inputs are required to exist in the rib-deployment-env-info.xml file in order to deploy any rib-<app>.
Destination	rib-deployment-env-info.xml
Example	
Notes	

Screen: Set Email Defaults



Fields on this screen:

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.
Destination	
Example	smtp.mycompany.com
Notes	

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.
Destination	
Example	25
Notes	

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.
Destination	
Example	rib@mycompany.com
Notes	

Field Title	To email address(es)
Field Description	If you are going to use the same email recipients list for multiple rib-<app> applications you can enter it here.
Destination	
Example	name1@mycompany.com, name2@mycompany.com
Notes	

Screen: rib-<app> OC4J Details



Note: The screenshot above shows the OC4J 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>.

Fields on this screen:

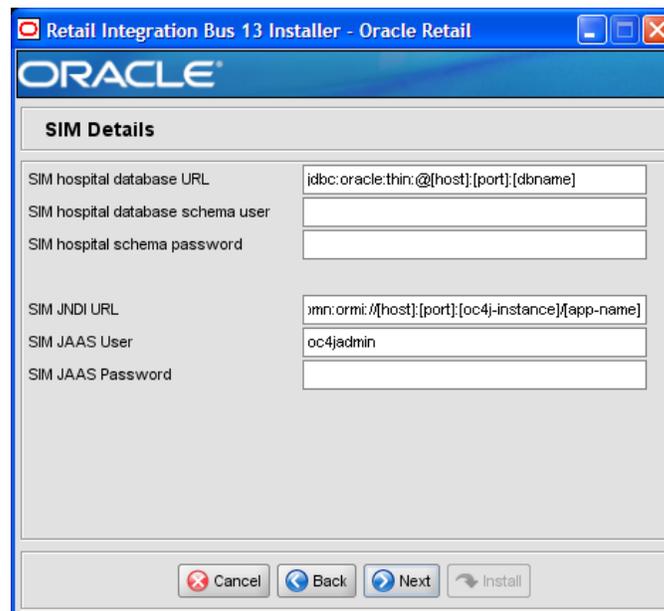
Field Title	rib-<app> OC4J Instance Name
Field Description	The name of the OC4J instance where the rib-<app> will be deployed.
Destination	rib-deployment-env-info.xml
Example	rib-sim-oc4j-instance
Notes	

Field Title	rib-<app> OC4J Instance Home
Field Description	The format should be as follows: <user>@<host>:<ORACLE_HOME>/j2ee/<oc4j-instance> 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 <ORACLE_HOME> is the filesystem path to the ORACLE_HOME <oc4j-instance> is the OC4J instance name
Destination	rib-deployment-env-info.xml
Example	myuser@myhost:/path/to/oracle/home/j2ee/rib-sim-oc4j-instance
Notes	

Field Title	rib-<app> OC4J User
Field Description	
Destination	rib-deployment-env-info.xml
Example	oc4jadmin
Notes	

Field Title	rib-<app> OC4J Password
Field Description	
Destination	rib-deployment-env-info.xml
Example	
Notes	

Screen: <app> Details



Note: The screenshot 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.

Fields on this 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-deployment-env-info.xml
Example	SIM_USER
Notes	

Field Title	<app> database schema password
Field Description	Password for the <app> database schema user
Destination	rib-deployment-env-info.xml
Example	

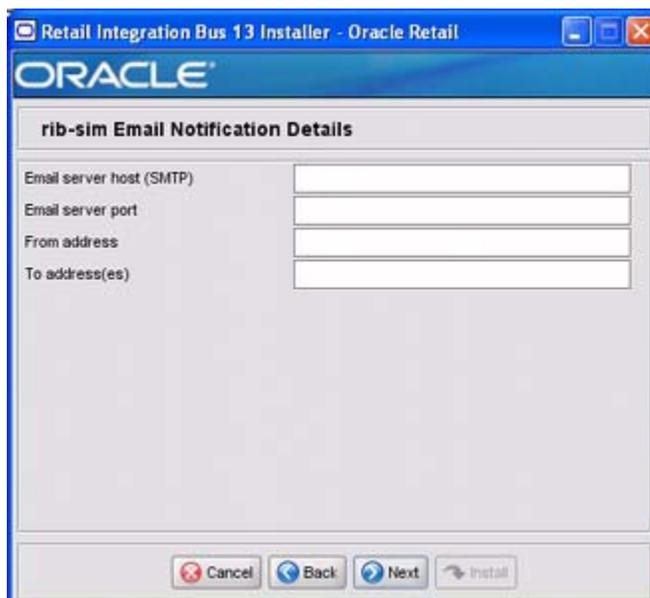
Field Title	<app> database schema password
Notes	

Field Title	<app> JNDI URL
Field Description	URL which will be used by rib-<app> to connect to the <app> application.
Destination	rib-deployment-env-info.xml
Example	opmn:ormi://myhost:6003:sim-oc4j-instance/sim
Notes	

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-deployment-env-info.xml
Example	oc4jadmin
Notes	

Field Title	<app> JAAS Password
Field Description	The password for the <app> JAAS user
Destination	rib-deployment-env-info.xml
Example	
Notes	

Screen: rib-<app> Email Notification Details



Note: The screenshot 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.

Fields on this screen:

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

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

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

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

RIB Installer Common Errors

This section 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 1.5 JDK and run the installer again.

"Could not create system preferences directory" Warning

Symptom:

The following text appears in the installer Errors tab:

```
May 22, 2006 11:16:39 AM java.util.prefs.FileSystemPreferences$3 run
WARNING: Could not create system preferences directory. System preferences are
unusable.
May 22, 2006 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.

"Couldn't find X Input Context" Warnings

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.

Error While Unpacking the EAR file

Symptom:

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

```
07/12/19 10:53:17 Notification ==>Error while unpacking <app>.ear  
java.util.zip.ZipException: error in opening zip file
```

Solution:

This is a known bug (BugID 6330834) related to Solaris and NFS in Oracle Application Server 10.1.3.3. Follow the workaround documented for this bug: in the opmn.xml file in \$ORACLE_HOME/opmn/conf add the following parameter to the java-options for the instance you are installing.

Solution:

```
-Doc4j.autoUnpackLockCount=-1
```

After making this change you should reload OPMN, restart the affected OC4J instance(s), and retry the retail application installation.

"Problem occurred during parsing input xml files" Message

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 Installation Checklists

These notes are intended as an aid in the installation of RIB. They are 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 Install Guide is a must.

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 Oracle Application 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.	See each of the Oracle Retail Application's documentation section on integration with the RIB.
"Information to Gather for the Install"	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 install.	RIB Functional Artifact URL JNDI URL

Task	Notes
Complete the setup of RDMT using the same "Information to Gather for the Install"	During either of the Install 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
Install IGS	This step is optional and should be performed only if there is a requirement to do so. See the RIB Implementation Guide - Integration Gateway Services.

Prerequisite - Prepare OracleAS for RIB Components

Task	Notes
Install Oracle Application Server 10.1.3.x	See Release notes for the certifications and the Implementation Guide for deployment Architectures.
Ensure that Java 1.5 JDK is installed on the OracleAS host and accessible.	
Create the RIB OC4J instances.	Replace <app> with the actual value of the RIB application for the associated retail application.
Warning: Each rib-<app> application requires a separate OC4J instance that is not shared with any other application.	There are two RIB specific oc4j instances that must be created regardless of the other application deployment choices.
\$ORACLE_HOME/bin/createinstance -instanceName rib-<app>-oc4j-instance	<ul style="list-style-type: none"> rib-func-artifact-oc4j-instance. (It is recommended, but not required, that this naming convention be followed.)
Note: For details on opmn usage and configuration details, see the Oracle® Process Manager and Notification Server Administrator's Guide 10g Release 3 (10.1.3.3).	<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-oc4j-instance rib-tafr-co4j-instance rib-rpm-oc4j-instance rib-sim-oc4j-instance rib-rwms-oc4j-instance

Task	Notes
<p>Edit the \$ORACLE_HOME/j2ee/rib-<app>-oc4j-instance/config/server.xml</p> <p>Add attribute global-jndi-lookup-enabled="true" to <application-server> element.</p>	<p>Example :</p> <pre><application-server xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="http://xmlns.oracle.com/oracleas/schema/application-server-10_1.xsd" application-directory="../applications" check-for-updates="adminClientOnly" deployment-directory="../application-deployments" connector-directory="../connectors" global-jndi-lookup-enabled="true" schema-major-version="10" schema-minor-version="0" ></pre>
<p>Edit the \$ORACLE_HOME/opmn/conf/opmn.xml file and add the following properties to the rib-<app>-oc4j-instance definition.</p>	<p>Make a backup copy of opmn.xml before you edit.</p>
<p>Locate the section of the xml file that relates to each of the rib-<app> instances.</p> <p>Note: The properties below must be applied ONLY to rib-<app>-oc4j-instance definition.</p>	<pre><process-type id="rib-rms-oc4j-instance" module-id="OC4J" status="enabled"> <module-data> <category id="start-parameters"> Default stuff... </category> <category id="stop-parameters"> Default stuff... </category> </module-data> Port stuff... </process-type></pre>
<p>Update the java-options section to add the following JVM properties:</p> <ul style="list-style-type: none"> ■ Specify the JVM's min and max heap size. ■ Xms500M -XmSwitch off JMX security. x900M 	<pre><data id="java-options" value="-server -Doc4j.jmx.security.proxy.off=true -Xms500M -Xmx900M -Djava.security.policy=\$ORACLE_ HOME/j2ee/rib-rms-oc4j-instance/config/java2.poli cy -Djava.awt.headless=true -Dhttp.webdir.enable=false" /></pre>
<p>Note: These are minimum values. Consult with the local sysadmin's for site values.</p>	
<ul style="list-style-type: none"> ■ Doc4j.jmx.security.proxy.off=true 	
<p>Specify -userThreads to oc4j-options element.</p>	<pre><data id="oc4j-options" value="-userThreads" /></pre>

Task	Notes
Make sure that numprocs attribute for the process-set element for rib-<app>-oc4j-instance is set to 1.	<code><process-set id="default_group" numprocs="1"/></code>
Edit the "orion-ejb-jar.xml" present under <oc4j-instance-home>/application-deployments/admin_ejb directory of the oc4j instance.	Add the "rib-oc4j-administrator" role as follows: <pre><security-role-mapping name="jmxAdministrator"> <group name="oc4j-administrators" /> <group name="ascontrol_admin" /> <group name="rib-oc4j-administrators" /> </security-role-mapping> <security-role-mapping name="jmxusers"> <group name="oc4j-app-administrators" /> <group name="ascontrol_appadmin" /> <group name="rib-oc4j-administrators" /> </security-role-mapping></pre>
Make sure to create a backup of the file before editing.	
This completes the creation and mapping of the user and role.	
Restart the oc4j instance.	

Prerequisite - Oracle Database Schemas

Task	Notes
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.	Each Application packages the RIB artifact creation scripts and they are installed at the time of the application's installation. It is critical to Insure that they have been installed and are the correct version. The TAFR Hospital is independent of any of the applications and should have a separate user/schema created for it.
<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. 	It is recommended that all applications have a separate Hospital and that they be logically and operationally associated with that application.
Ensure that each PL/SQL application schema has run the RIB supplied scripts to create the RIB Artifacts:	Verify the XML Developer's Kit for PL/SQL is installed.
<ul style="list-style-type: none"> 1_KERNEL_CREATE_OBJECTS.SQL script. InstallAndCompileAllRIBOracleObjects.sql 1_CLOB_CREATE_OBJECTS.SQL (RMS Only) 	

Task	Notes
<p>RMS Application- verify that the row in the RIB_OPTIONS table has correct values to match the RIB deployment environment.</p> <p>Ensure that each Java EE 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. 	<pre>XML_SCHEMA_BASE_URL_DEFAULT = http://<hostname>:<port>/rib-func-artifact;</pre>
<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, 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 ";</pre>
<p>Ensure that the XA grants are made appropriately.</p> <p>Note: For details, see the Oracle® Database Administrator Guide 10g Release 2 (10.2.0.3),</p>	<pre>grant select on v\$atrans\$ 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
<p>Create the Oracle RDBMS instance that will be the JMS Provider.</p>	<p>Oracle Streams AQ is provided by the Oracle RDBMS Enterprise Edition install.</p> <p>Warning: 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 RIB Implementation Guide - Deployment Architectures.</p>

Task	Notes
<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>Example script:</p> <pre>CREATE USER "RIBAQ" IDENTIFIED BY "RIBAQ" DEFAULT TABLESPACE "AQJMS" 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";</pre>

Information	Notes
jms-server-home	JMS Provider for RIB 13.1 is AQ.
jms-url	<ul style="list-style-type: none"> ▪ jms-server-home: The server home must be in the format OsUser@AqHostName:/AqHomeDirectory. E.g. ribaq@ribose-lnx-host:/u00/db "jms-url : AQ thin JDBC connection URL. E.g. jdbc:oracle:thin:@ribose-lnx-host:1521:orcl On AQ on RAC database use the long JDBC URL E.g. jdbc:oracle:thin:@(DESCRIPTION =(ADDRESS_LIST =(ADDRESS = (PROTOCOL = TCP)(HOST = ribaq-lnx-virtual-host-1)(PORT = 1521))(ADDRESS = (PROTOCOL = TCP)(HOST = ribaq-lnx-virtual-host-2)(PORT = 1521))(LOAD_BALANCE = yes))(CONNECT_DATA =(SERVICE_NAME = orcl))) ▪ jms-port : AQ JMS server listener port. This is same as the AQ JDBC listener port. E.g. 1521 ▪ jms-user : AQ JMS user. This is the database user which can ▪ connect to jms-url (see above). ▪ jms-password : AQ JMS password. This is the database password which can connect to jms-url.
jms-port	
jms-user	
jms-password	

Information	Notes
oas-instance-name oas-instance-home oas-opmn-request-port oas-ohs-port java-home	<p>For each of the Oracle Application Servers that the RIB components will be deployed to.</p> <ul style="list-style-type: none"> ▪ oas-instance-name: Your OAS instance name. E.g. oas_instance_1.ribapp-lnx-host ▪ oas-instance-home: The format of the home must follow the format OsUser@OasHostName:/OasHomePath. E.g. ribapp@ribapp-lnx-host:/home/oracle/oracle/product/10.1.3.1/OracleAS_2 ▪ oas-opmn-request-port: The OPMN request port E.g. 6003 ▪ oas-ohs-port: The Oracle Http Server port that is configured for this OAS instance. E.g. 8889 ▪ java-home : Java Home directory of the remote OAS server. E.g. /usr/java/jdk1.5.0_10
oc4j-instance-name oc4j-instance-home oc4j-user oc4j-password	<p>The oc4j instances for each of your rib-<app> applications that are in-scope.</p> <ul style="list-style-type: none"> ▪ oc4j-instance-name: The oc4j instance name. For example: rib-rms will be deployed in rib-rms-oc4j-instance. ▪ oc4j-instance-home: The oc4j home information. E.g. ribapp@ribapp-lnx-host:/home/oracle/oracle/product/10.1.3.1/OracleAS_2/j2ee/rib-rms-oc4j-instance ▪ oc4j-user: Oc4j user name (for example, oc4jadmin) ▪ oc4j-password: Oc4j password (for example, oc4jadmin)
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. ▪ The RIB Hospital database information. ▪ PL/SQL application database information. ▪ E-mail notification information. ▪ jndi information for javaee applications
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 which will be used to connect to rib-<app> error hospital tables (for example, rms13user). ▪ database/password: This is the database password which 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	<p>See samples in row above for RIB Hospital Database.</p>

Information	Notes
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 SMTP 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 where the RIB notifications will originate (for example, ribadmin@yourcompany.com) ■ email/to-address-list: Comma separated list of destination email address where RIB notifications will be sent (for example, ribappsadmin1@yourcompany.com, ribappsadmin2@yourcompany2.com)
joined information for jayvee applications: jndi/url jndi/factory jndi/user jndi/password	<ul style="list-style-type: none"> ■ "jndi/url: The JNDI url for the retail <app> that this rib-<app> is connecting to. The URLs must use the following format. ■ OAS URL format: ■ opmn:ormi://opmnHost:opmnPort:oc4jInstanceName/applicationName ■ OAS factory: oracle.j2ee.rmi.RMIInitialContextFactory ■ For example, opmn:ormi://mspdev40.us.oracle.com:6007:rpm-oc4j-instance/rpm ■ jndi/factory: The JNDI provider factory class name. The factory must be one of the following. ■ OAS URL format: opmn:ormi://opmnHost:opmnPort:oc4jInstanceName/applicationName ■ OAS factory: oracle.j2ee.rmi.RMIInitialContextFactory ■ For example, oracle.j2ee.rmi.RMIInitialContextFactory ■ jndi/user: The retail <app> JNDI user name. This is same as the retail <app>'s oc4j instance user name. ■ For example, oc4jadmin ■ jndi/password: The retail <app> JNDI password. This is same as the retail <app>'s oc4j instance password. ■ For example, oc4jadmin

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/jdk1.5.0_09	Example: export JAVA_HOME=/usr/bin/java/jdk1.5.0_09
Make sure that all RIB OC4j instance that are to be deployed to are running.	

Task	Notes
<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 RIB Implementation Guide for guidelines and deployment approaches.</p> <p>This is an important strategic decision since 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 RibKernel13.1ForAll13.1Apps_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 MINOR}_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 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.</p>	<p>Do not extract the tar file. This will be done by the check-version-and-unpack tool.</p>
<p>Return to the root rib-home directory.</p>	
<p>Execute rib-installer.sh</p> <pre>> ./rib-installer.sh</pre> <p>This will start the x-term GUI.</p>	<p>For installs using a remote client (x-term) set the DISPLAY variable appropriately first.</p> <pre>> export DISPLAY=141.144.112.189:0.0</pre> <p>Make sure that your local machine has an X-server (such as Exceed) running.</p>
<p>Verify Application URL settings match RIB install.</p>	<p>RIB Functional Artifact URL JNDI URL</p>
<p>Bounce all of the rib-<app>-oc4j-instances.</p>	<p>During the install a shared library is created that contains the JDBC Driver update. It is necessary to bounce the oc4j instance.</p>
<p>Verify the installation using RDMT.</p>	

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/jdk1.5.0_09</pre>	<p>Example: export JAVA_HOME=/usr/bin/java/jdk1.5.0_09</p>
<p>Make sure that all RIB OC4J instance that are to 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 RIB Implementation Guide for guidelines and deployment approaches.</p> <p>This is an important strategic decision since 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 RibKernel13.1ForAll13.1Apps_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 all 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 will verify 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 is divided in 4 major sections.</p> <ol style="list-style-type: none"> 1. <code>app-in-scope-for-integration</code> section: In this section you define what application are in scope for this environment. 2. <code>rib-jms-server</code> section: In this section you define the JMS server information. Note: See also the section, "Preinstallation Steps for Multiple JMS Server Setup", in Chapter 4 of this guide. 3. <code>rib-javaee-containers</code> section: In this section you define the "Java EE container information" for each of the <code>rib-<app></code> that are in scope. 4. <code>rib-applications</code> section: In this section you define the <code>rib-<app></code> specific information for each of the <code>rib-<app></code> that are in scope. <ul style="list-style-type: none"> ■ "For <code>plsql</code> applications you will need to define RIB RIB Hospital connection and email notification information. ■ "For <code>javaee</code> applications you will need to define RIB Hospital connection, email notification information and the connecting retail application's (i.e. <code><app></code>) JNDI information.
<p>Edit the <code>app-in-scope-for-integration</code> section to match the desired deployment.</p>	<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-in-scope-for-integration></pre>
<p>Edit the <code>rib-jms-server</code> section.</p> <p>See the section, "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:ora10g</jms-url> <jms-port>1521</jms-port> <jms-user>ribaq</jms-user> <jms-password>ribaq</jms-password></pre>

Task	Notes
Edit the Application Server section	<pre> <oas-instance-name> AS4.linux1.localdomain </oas-instance-name> <oas-instance-home>soa1@linux1:/home/soa1/product/10.1.3.1/OracleAS_6</oas-instance-home> <oas-opmn-request-port>6003</oas-opmn-request-port> <oas-ohs-port protocol="http" >7777</oas-ohs-port> <java-home>/usr/java/jdk1.5.0_01</java-home> </pre>
Configure the oc4j instances for each of your rib-<app> applications that are in-scope.	<pre> <oc4j id="rib-rms-app-server-instance"> <oc4j-instance-name>rib-rms-oc4j-instance</oc4j-in stance-name> <oc4j-instance-home>soa1@linux1:/home/soa1/product /10.1.3.1/OracleAS_ 4/j2ee/rib-rms-oc4j-instance</oc4j-instance-home> <oc4j-user>riboc4jadmin</oc4j-user> <oc4j-password>riboc4jadmin</oc4j-password> </oc4j> </pre>
Configure the rib-applications section: In this section you define the rib-<app> specific information for each rib-<app> that in scope.	<p>For plsql applications you will need to define 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-app-server-instance" /> <error-hospital-database> <hospsurl>jdbc:oracle:thin:@10.141.27.136: 1521:orcl </hosps-url> <hosp-user>hospuser</hosp-user> <hosp-password>hosppwd</hosp-password> </error-hospital-database> <app-database> <app-db-url>jdbc:oracle:thin:@10.141.27.136: 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-h ost> <email-server-port>25</email-server-port> <from-address>david.burch@oracle.com</from-address > <to-address-list>david.burch@oracle.com</to-address s-list> </email> </notifications> </pre> <p>For javaee applications, you will need to define RIB Hospital connection, email notification information and the connecting retail application's (<app>) JNDI information.</p>

Task	Notes
Run the rib-home/application-assembly-home/bin/rib-app-compiler.sh script from rib-home/application-assembly-home/bin directory.	This will generate/assemble a rib-<app> and make it ready for deployment.
The RIB apps are now ready to deploy.	This script is located in the rib-home/deployment-home/bin directory.
Execute the rib-home/deployment-home/bin/rib-app-deployer.sh script with the appropriate command line parameter.	
> rib-app-deployer.sh -prepare-jms	This creates a new JMS server with all RIB configured topics.
>rib-app-deployer.sh -verify-error-hospital rib-<app>	This verifies: <ol style="list-style-type: none"> 1. Error-hospital database configurations by testing the connection to the database. 2. 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 one of rms, rwms, tafr, sim, or rpm.
Bounce all of the rib-<app>-oc4j-instances.	During the install a shared library is created that contains the JDBC Driver update. It is necessary to bounce the oc4j instance.
Verify Application URL settings match RIB install.	RIB Functional Artifact URL JNDI URL
Verify the installation using RDMT	

RDMT - Information to Gather

The following are necessary directory parameters.

RDMT Home Directory	Rib1301ForAll13xxApps/rib-home/tools-home/rdmt/
RDMTLOGS Directory	Rib1301ForAll13xxApps/rib-home/tools-home/rdmt/RDMTLOGS
Temp Files Directory	Rib1301ForAll13xxApps/rib-home/tools-home/rdmt/RDMTLOGS/tmp
RIB App Builder rib-home Directory	/u00/Rib1301ForAll13xxApps/rib-home

The following are parameters for JMS Provider.

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

The following are OC4J parameters for JMX functions.

OC4J/JMX Host	mspdev72
JMX Req Port	6003
OC4J Instance name	rib-rms-oc4j-instance
OC4J App Name	rib-rms
OC4J User Name	oc4jadmin
OC4J 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 install will perform a check and fail if the path is not correct. Prior to the install, verify that your Java version is correct.
Download the Rdmt13.1ForAll13.x.xApps_eng_ga.tar.	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. RDMT can be installed under any user in any directory.
Extract the tar file. > tar xvf	Extract the tar file. It will create or over-write a directory call rdmt.
Rdmt13.1ForAll13.x.xApps_eng_ga.tar	

Task	Notes
Execute the configbuilder.sh script. > ./setup.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 the for 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
Preinstallation	
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 1.5.
The RIB XSDs must be made network-accessible in order for RIHA to properly display RIB messages.	The RIB Functional Artifact URL (e.g. 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 RIHA13.1 is only compatible with RIB13.0.X and higher.
Copy the Riha13.1ForAll13.x.xApps_eng_ga.tar archive file to the location where RIHA will be installed.	<ul style="list-style-type: none"> ■ Windows: C:\RIB_Tools\RIHA ■ UNIX: \$RIB_HOME/tools-home/riha
Decompress the tar file with an archive utility.	<ul style="list-style-type: none"> ■ Windows: e.g. WinZip ■ UNIX: e.g. unzip
Download hibernate-2.1.8.zip archive file, extract the hibernate2.jar and put it in external-lib directory.	URL: http://prdownloads.sourceforge.net/hibernate/hibernate-2.1.8.zip
Execute the RIHA configuration executable file. Follow instructions, this script will drive the rest of the installation and configuration process.	<ul style="list-style-type: none"> ■ Windows: riha-setup.bat ■ UNIX: riha-setup.sh
If riha is extracted under rib-home, it updates the necessary riha configuration files if installed under rib-home/tools-home/riha directory.	It fetches and updates all the necessary configuration information from rib-deployment-env-info.xml present under rib-home/deployment-home/conf directory. It configures for RIB hospital for the <app>s depending upon the applications in scope as defined in rib-deployment-env-info.xml.
If riha 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.	It fetches and updates all the necessary configuration information from rib-deployment-env-info.xml present under specified rib-home/deployment-home/conf directory. It configures for RIB hospital for the <app>s depending upon the applications in scope as defined in rib-deployment-env-info.xml.
If reha is extracted in a remote server with no rib-home present.	Follow instructions, this script will drive the rest of the installation and configuration process.
Verify RIHA is configured and ready. Execute the appropriate file to start RIHA.	<ul style="list-style-type: none"> ■ Windows: riha.bat ■ UNIX: riha.sh

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 the RIB Implementation Guide - Integration Gateway Services.
Prepare Oracle WebLogic Server	Prerequisite. Work with System and Application administrators on appropriate deployment. See the RIB Implementation Guide - Integration Gateway Services. For illustrations of the applications screens used to prepare the Oracle WebLogic Server, see Appendix D - "Integration Gateway Services .ear File Installation."
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.
Create IGS datasource pointing to RIB AQ JMS, using the WebLogic Server Administration Console.	Verify RIB JMS is installed, configured, and running.
Navigate to datasources screen using Services > JDBC > Data Sources menu.	Click on New and enter the following values in the respective fields: <ul style="list-style-type: none"> ■ Name: igs-ojms-managed-datasource ■ JNDI Name: IGSOacleAQJmsDs ■ Database Type: Oracle ■ Database Driver: Oracle's Driver(thin) <p>Uncheck "Supports Global Transactions."</p>

Task	Notes
Use data gathered on RIB AQ and fill in the database details.	<p>For example:</p> <ul style="list-style-type: none"> ■ Database Name: ora11g ■ Host Name: linux1.us.oracle.com ■ Port: 1521 ■ Database User Name: RIBAQ ■ Password: RIBAQ
Test configuration to make sure that the server is able to connect to the database.	Verify the configuration details.
<p>Select the target server.</p> <p>This is the managed server created for the igs-service.</p> <p>Click Finish. The newly created datasource should show in the list of datasources.</p>	For example, igs-service_wls_instance.
<p>Prepare to deploy the IGS application:</p> <p>Download the IntegrationGatewayService13.10ForAll13.1.0Apps.tar</p> <p>Note: The files must be accessible to the WebLogic Administration Console during the deployment step. So they must be located on either the Weblogic Server host, or on the host where the browser used to connect to the Administration Console is invoked.</p>	<p>The recommended location is rib-home/tools-home directory. There is an empty rdmt subdirectory already there. This is only a placeholder.</p> <p>IGS can be "untar'd" under any user in any directory.</p> <p>If the Oracle WebLogic Server is located on a host different from than where the rib-home is located, then a temporary location (accessible to the browser that will be used to access the Administration Console) must be used.</p>
Extract the tar file.	<pre>>tar -xvf IntegrationGatewayService13.1.0forAll13.1.0Apps_eng_ ga.tar</pre>

Task	Notes
Deploy IGS Application using the WebLogic Server Administration Console.	The "Locate deployment to install and prepare for deployment" page appears. Follow the instructions to locate the igs-service.ear file on the WebLogic Server host.
Navigate to the Deployments page. Click Install.	If rib-home is located on a different host than the Oracle WebLogic Server, follow these instructions to upload the file: <ol style="list-style-type: none">1. Select "Install this deployment as an application."2. Click Next and move to "Optional Settings."3. Click Next and move to "Review your choices and click Finish."4. Select "No, I will review the configuration later."
Click Finish to deploy the application.	

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 details on this and the use of the Administration Console Appendix D - "Integration Gateway Services .ear File Installation." For more detailed verification testing, refer to the RIB Operations Guide - Integration Gateway Service Testing.
Navigate to "Deployments" page.	<ol style="list-style-type: none"> 1. Navigate to "Deployments" page. 2. Locate the igs-service on the "Summary of Deployments" page. 3. Click the "+" next to the ig-service to expand the tree. 4. Locate the "Web Services" section.
Click on any Web service to move to a "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 and select to move to the "WebLogic Test Client" page.
Select "Ping" operations.	Select "Ping" operation. Fill in test data in string arg0: text box and click the Ping button. The test page will show the request message and the response message.

Integration Gateway Services .ear File Installation

This section provides detailed steps for installing the Integration Gateway Services (IGS) .ear file. The instructions below cover the following topics:

1. Prerequisites
2. Preparing the WebLogic Server (WLS)
3. Deploying the IGS .ear file
4. Testing the IGS using the WLS test page

Prerequisites

Installation of the IGS .ear file requires the following:

- WebLogic Server
- AQ 11g database
- Oracle Retail Integration Bus (already running)

Each .ear file or ejb-jar file containing the services should be deployed on its own WebLogic instance.

To avoid confusion when naming the WebLogic instance, it is recommended that the .ear file name is used (without the extension) along with underscore, `wls_instance`. For example, if the .ear file is `rms-service.ear`, the instance name is `rms-service_wls_instance`.

Note: Before deploying the IGS .ear file, be sure to create RIB AQ JMS Topics. For information, see Chapter 4, "Run the RIB Application Installer."

Prepare the WebLogic Server

Create a datasource for IGS, pointing to the RIB AQ JMS server, as follows:

1. Navigate to the Summary of JDBC Data Sources screen using the Services > JDBC > Data Sources menu.

Summary of JDBC Data Sources

A JDBC data source is an object bound to the JNDI tree that provides database connectivity through a pool of connections on the JNDI tree and then borrow a database connection from a data source.

This page summarizes the JDBC data source objects that have been created in this domain.

[Customize this table](#)

Data Sources(Filtered - More Columns Exist)

<input type="checkbox"/>	Name ↕	JNDI Name
<input type="checkbox"/>	examples-demo	examples-dataSource-demoPool
<input type="checkbox"/>	examples-demoXA	examples-dataSource-demoXAPool
<input type="checkbox"/>	examples-demoXA-2	examples-demoXA-2
<input type="checkbox"/>	examples-oracleXA	examples-dataSource-oracleXAPool

- Click New to open the Create a New JDBC Data Source screen. Enter the following values:

Field Name	Value
Name	igs-ojms-managed-datasource
JNDI Name	IGSOracleAQJmsDs
Database Type	Oracle
Database Driver	Oracle

Create a New JDBC Data Source

Back Next Previous Cancel

JDBC Data Source Properties

The following properties will be used to identify your new JDBC data source.
* Indicates required fields

What would you like to name your new JDBC data source?

Name: igs-ojms-managed-datasource

What JNDI name would you like to assign to your new JDBC Data Source?

JNDI Name: IGSOracleAQJmsDs

What database type would you like to select?

Database Type: Oracle

What database driver would you like to use to create database connections?

Database Driver: *Oracle's Driver (Thin) Versions: 9.0.1.9.2.0.10.11

Back Next Previous Cancel

- Also on the Create a New JDBC Data Source screen, uncheck "Supports Global Transactions."

Create a New JDBC Data Source

Back Next Previous Cancel

Transaction Options

You have selected non-XA JDBC driver to create database connection in your new data source.

Does this data source support global transactions? If yes, please choose the transaction protocol for this data source.

Supports Global Transactions

Select this option if you want to enable non-XA JDBC connections from the data source to participate in global transaction optimization. Recommended in place of Emulate Two-Phase Commit.

Logging Last Resource

Select this option if you want to enable non-XA JDBC connections from the data source to emulate participate your application can tolerate heuristic conditions.

Emulate Two-Phase Commit

Select this option if you want to enable non-XA JDBC connections from the data source to participate in global processing. With this option, no other resources can participate in the global transaction.

One-Phase Commit

Back Next Previous Cancel

4. Also on the Create a New JDBC Data Source screen, enter the following database details:
 - Database Name
 - Host Name
 - Port
 - Database User Name
 - Password
 - Confirm Password

Create a New JDBC Data Source

Back Next **Finish** Cancel

Connection Properties
Define Connection Properties.

What is the name of database you would like to connect to?

Database Name:

What is the name or IP address of the database server?

Host Name:

What is the port on the database server used to connect to the database?

Port:

What database account user name do you want to use to create database connections?

Database User Name:

What is the database account password to use to create database connections?

Password:

Confirm Password:

Back Next **Finish** Cancel

5. Also on the Create a New JDBC Data Source screen, verify the configuration details, as shown below:

Create a New JDBC Data Source

Test Configuration Back Next Finish Cancel

Test Database Connection
Test the database availability and the connection properties you provided.

What is the full package name of JDBC driver class used to create database connections in the connection p
(Note that this driver class must be in the classpath of any server to which it is deployed.)

Driver Class Name: oracle.jdbc.OracleDriver

What is the URL of the database to connect to? The format of the URL varies by JDBC driver.

URL: jdbc:oracle:thin:@gisingh-

What database account user name do you want to use to create database connections?

Database User Name: testws

What is the database account password to use to create database connections?
(Note: for secure password management, enter the password in the Password field instead of the Properties

Password:

Confirm Password:

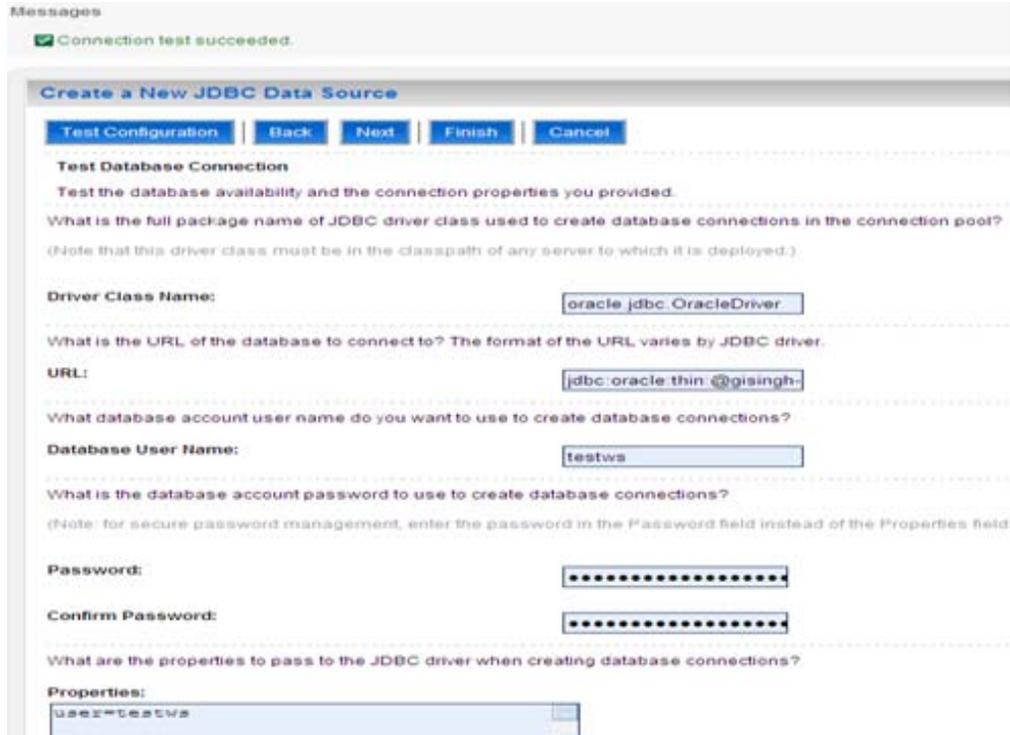
What are the properties to pass to the JDBC driver when creating database connections?

Properties:
user=testws

What table name or SQL statement would you like to use to test database connections?

Test Table Name:
SQL: SELECT * FROM DUAL

- At the top of the screen, click Test Configuration to ensure the server is able to connect to the database. Note the message at the top of the following screen: "Connection test succeeded."



- Also on the Create a New JDBC Data Source screen, select the target server under Select Targets. Click Finish.



- Upon clicking Finish, the newly created data source should appear in the list of data sources (on the Summary of JDBC Data Sources screen).

Summary of JDBC Data Sources

A JDBC data source is an object bound to the JNDI tree that provides database connectivity through a pool of JDBC connections on the JNDI tree and then borrow a database connection from a data source.

This page summarizes the JDBC data source objects that have been created in this domain.

Customize this table

Data Sources (Filtered - More Columns Exist)

Name	JNDI Name
examples-demo	examples-dataSource-demoPool
examples-demoXA	examples-dataSource-demoXAPool
examples-demoXA-2	examples-demoXA-2
examples-oracleXA	examples-dataSource-oracleXAPool
igs-ojms-managed-datasource	IGSOracleAQJmsDs

Deploy the IGS .ear File

Complete the following steps to deploy the IGS .ear file.

- Download the IntegrationGatewayService13.1.0ForAll13.1.0Apps.tar to a temporary location.
- Run the following command for extracting the contents of the .tar file:

```
$ tar -xvf IntegrationGatewayService13.1.0ForAll13.1.0Apps_eng-ga.tar
```

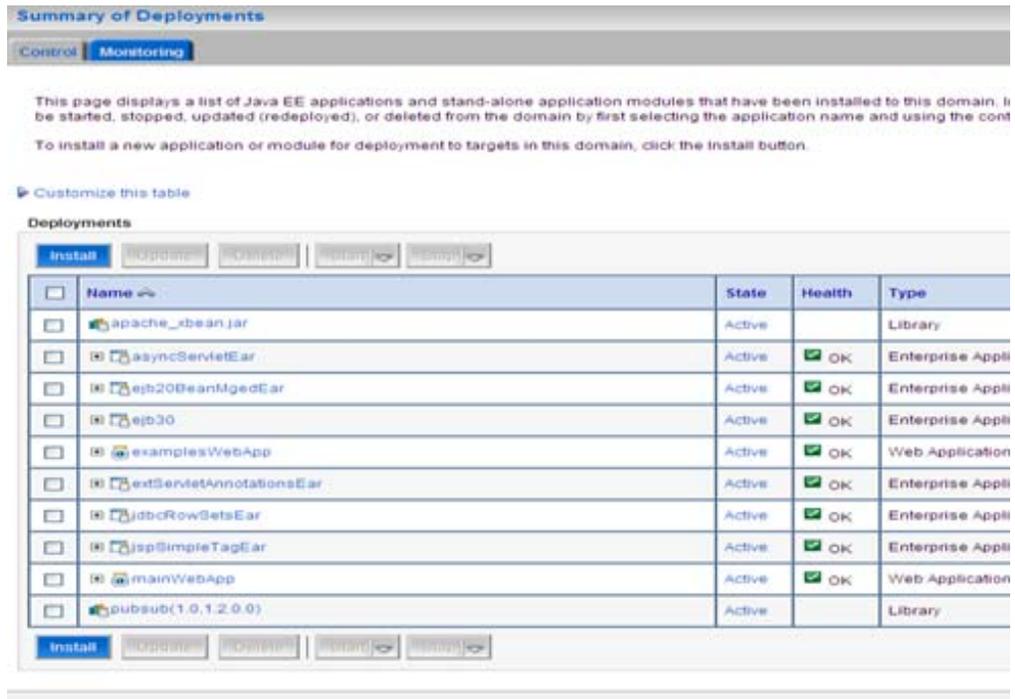
- Navigate to the "integration-bus-gateway-services" directory to see the contents:

```
$ cd integration-bus-gateway-services
$ ls -ltr
```

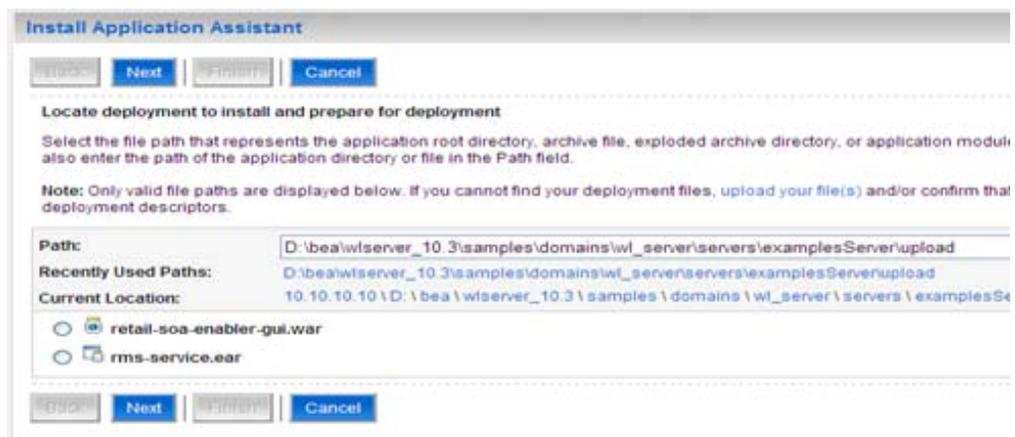
```
riboas@mspdv170:~/Downloads/IGS_Download/integration-bus-gateway-services
[riboas@mspdv170 IGS_Download]$ ls
IntegrationGatewayService13.1.0ForAll13.1.0Apps_eng-ga.tar
[riboas@mspdv170 IGS_Download]$ tar -xvf IntegrationGatewayService13.1.0ForAll13.1.0Apps_eng-ga.tar
integration-bus-gateway-services/
integration-bus-gateway-services/soapui-testcase/
integration-bus-gateway-services/README.txt
integration-bus-gateway-services/igs-service.ear
integration-bus-gateway-services/soapui-testcase/igs-service-test-soapui-testcase.xml
[riboas@mspdv170 IGS_Download]$ cd integration-bus-gateway-services
[riboas@mspdv170 integration-bus-gateway-services]$ ls -ltr
total 2272
-rw-r--r-- 1 riboas dba 2299691 Feb 19 13:06 igs-service.ear
-rw-r--r-- 1 riboas dba 252 Feb 19 13:10 README.txt
drwxr-xr-x 2 riboas dba 4096 Feb 23 17:15 soapui-testcase
[riboas@mspdv170 integration-bus-gateway-services]$
```

- Navigate to the WL_Server > Deployments screen to view the list of deployed applications on the Summary of Deployments screen.

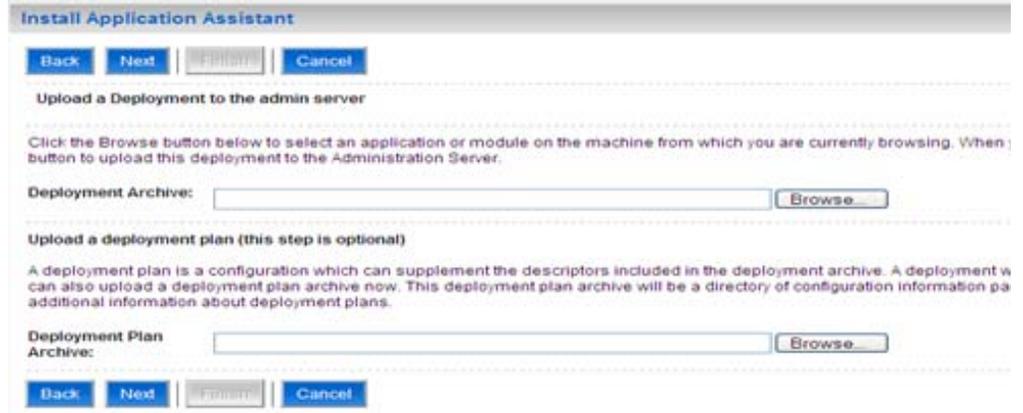
Note: To re-deploy an application that is already deployed, click Delete first to "undeploy" the application. Then continue with the following steps.



- On the Summary of Deployments screen, click Install to open the Install Application Assistant screen.

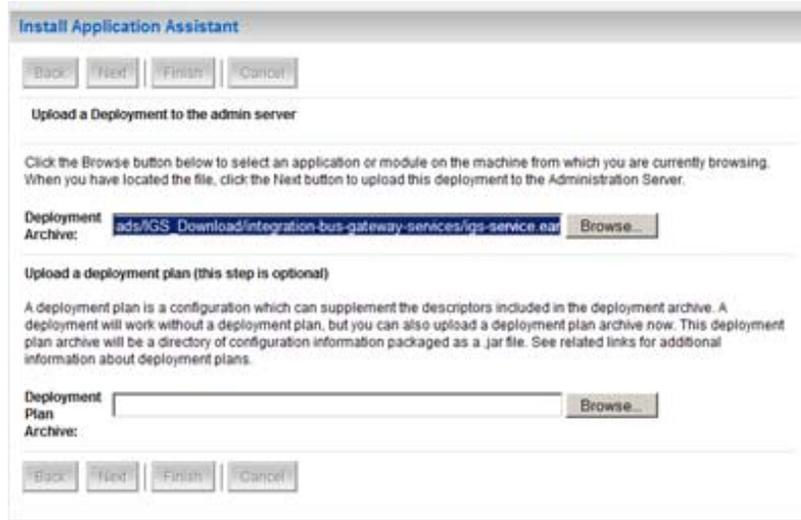


6. On the Install Application Assistant screen, click the "upload your file(s)" link to display the Deployment Archive field.



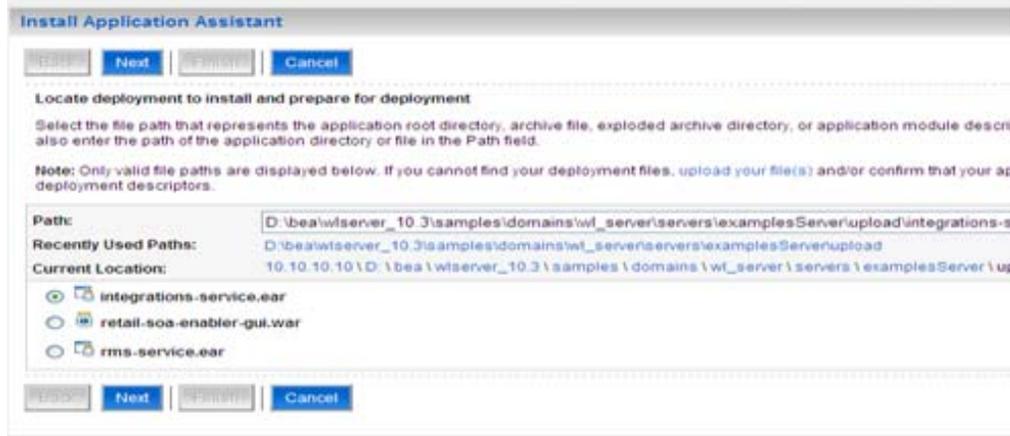
The screenshot shows the "Install Application Assistant" window. At the top, there are navigation buttons: "Back", "Next", "Finish", and "Cancel". Below this is the section "Upload a Deployment to the admin server". A text box contains the instruction: "Click the Browse button below to select an application or module on the machine from which you are currently browsing. When you have located the file, click the Next button to upload this deployment to the Administration Server." Below the instruction is a text field labeled "Deployment Archive:" followed by a "Browse..." button. The next section is "Upload a deployment plan (this step is optional)". It contains a text box with the instruction: "A deployment plan is a configuration which can supplement the descriptors included in the deployment archive. A deployment can also upload a deployment plan archive now. This deployment plan archive will be a directory of configuration information packaged as a jar file. See related links for additional information about deployment plans." Below this is a text field labeled "Deployment Plan Archive:" followed by a "Browse..." button. At the bottom, there are navigation buttons: "Back", "Next", "Finish", and "Cancel".

7. In the Deployment Archive field enter the .ear file location of the local server, as shown below:

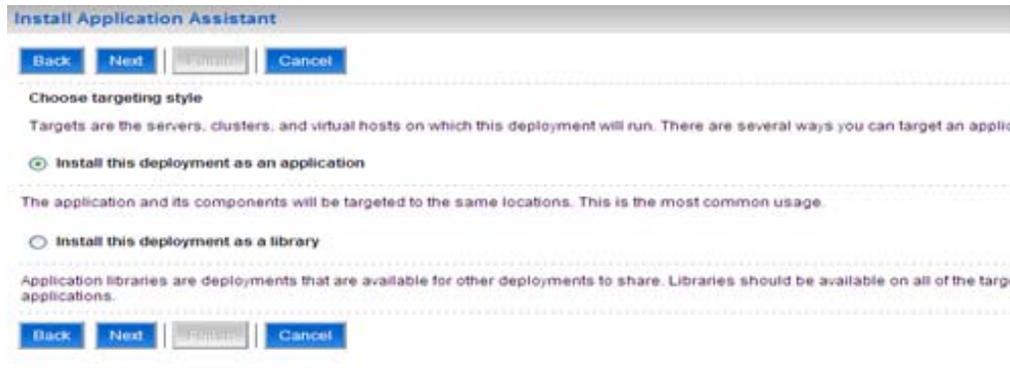


The screenshot shows the "Install Application Assistant" window. At the top, there are navigation buttons: "Back", "Next", "Finish", and "Cancel". Below this is the section "Upload a Deployment to the admin server". A text box contains the instruction: "Click the Browse button below to select an application or module on the machine from which you are currently browsing. When you have located the file, click the Next button to upload this deployment to the Administration Server." Below the instruction is a text field labeled "Deployment Archive:" containing the path "ads/IGS_Download/integration-bus-gateway-services/igs-service.ear" followed by a "Browse..." button. The next section is "Upload a deployment plan (this step is optional)". It contains a text box with the instruction: "A deployment plan is a configuration which can supplement the descriptors included in the deployment archive. A deployment will work without a deployment plan, but you can also upload a deployment plan archive now. This deployment plan archive will be a directory of configuration information packaged as a jar file. See related links for additional information about deployment plans." Below this is a text field labeled "Deployment Plan Archive:" followed by a "Browse..." button. At the bottom, there are navigation buttons: "Back", "Next", "Finish", and "Cancel".

- Click Next to view the following portion of the Install Application Assistant screen:



- Click Next to move on to the portion of the Install Application Assistant screen shown below. Click the "Install this deployment as an application" radio button.



- Click Next to display a list of Optional Settings. Leave the default values as they are shown below:

Back Next Finish Cancel

Optional Settings

You can modify these settings or accept the defaults

General

What do you want to name this deployment?

Name:

Security

What security model do you want to use with this application?

DD Only: Use only roles and policies that are defined in the deployment descriptors.

Custom Roles: Use roles that are defined in the Administration Console; use policies that are defined in the deployment descriptor.

Custom Roles and Policies: Use only roles and policies that are defined in the Administration Console.

Advanced: Use a custom model that you have configured on the realm's configuration page.

Source accessibility

How should the source files be made accessible?

Use the defaults defined by the deployment's targets

Recommended selection.

Copy this application onto every target for me

During deployment, the files will be copied automatically to the managed servers to which the application is targeted.

I will make the deployment accessible from the following location

Location:

Provide the location from where all targets will access this application's files. This is often a shared directory. You must ensure the app and that each target can reach the location.

Back Next Finish Cancel

11. Click Next to view the following portion of the Install Application Assistant screen. Select the "No, I will review the configuration later" radio button.

Install Application Assistant

Back | **Next** | Finish | Cancel

Review your choices and click Finish

Click Finish to complete the deployment. This may take a few moments to complete.

Additional configuration

In order to work successfully, this application may require additional configuration. Do you want to review this application's configuration?

Yes, take me to the deployment's configuration screen.

No, I will review the configuration later.

Summary

Deployment: D:\bea\wlserver_10.3\samples\domains\wl_server\servers\examplesServer\upload\integrations-service.ear

Name: integrations-service

Staging mode: Use the defaults defined by the chosen targets

Security Model: DDOnly: Use only roles and policies that are defined in the deployment descriptors.

Customize this table

Target Summary

Components	Targets
integrations-service.ear	examplesServer

Back | **Next** | Finish | Cancel

12. Click Finish to start the deployment process and return to the list of deployed applications.

Test the IGS using the WLS Test Page

Clicking Finish in the last set of instructions opens the Deployments screen shown below. Each application has a link to all of its modules and components.

Control **Monitoring**

This page displays a list of Java EE applications and stand-alone application modules that have been installed to this domain. Installed applications can be started, stopped, updated (redeployed), or deleted from the domain by first selecting the application name and using the controls on the right.

To install a new application or module for deployment to targets in this domain, click the Install button.

Customize this table

Deployments

Install Update Deploy Start Stop Showing

<input type="checkbox"/>	Name ↕	State	Health	Type
<input type="checkbox"/>	apache_xbean.jar	Active		Library
<input type="checkbox"/>	asyncServletEar	Active	OK	Enterprise Application
<input type="checkbox"/>	ejb20BeanMgedEar	Active	OK	Enterprise Application
<input type="checkbox"/>	ejb30	Active	OK	Enterprise Application
<input type="checkbox"/>	examplesWebApp	Active	OK	Web Application
<input type="checkbox"/>	extServletAnnotationsEar	Active	OK	Enterprise Application
<input type="checkbox"/>	integrations-service	Active	OK	Enterprise Application
<input type="checkbox"/>	jdbcRowSetsEar	Active	OK	Enterprise Application
<input type="checkbox"/>	jspSimpleTagEar	Active	OK	Enterprise Application
<input type="checkbox"/>	mainWebApp	Active	OK	Web Application

Install Update Deploy Start Stop Showing

1. In the list of applications, click on the plus sign (+) beside integrations-service to display the modules and components associated with it.

Staging Mode:	(not specified)	The mode that specifies when from a source on the Adminis Server's staging area during a
Security Model:	DDOnly	The security model that is use module. More Info...
Deployment Order:	<input type="text" value="100"/>	An integer value that indicates other deployable units on a si
Deployment Principal Name:	<input type="text"/>	A string value that indicates w deploying the file or archive di principal will be used to set th into application code for inter ApplicationLifecycleListener. I the anonymous principal will

[Save](#)

Modules and Components

Name
integrations-service
EJBs
AllocPublishingBean
ASNOutPublishingBean
VendorPublishingBean
Modules
integrations-service-ejb.jar
Web Services
AllocPublishingService
ASNOutPublishingService
VendorPublishingService

2. Under Modules and Components, click on any Web service to view a list of Web service details, as shown below.

Settings for AllocPublishingService

Overview Configuration Security Testing Monitoring

A Web Service is a set of functions packaged into a single entity that is available to other systems on a network. It is implemented which is a Java class that uses JWS metadata annotations to specify the shape and behavior of the Web Service.

This page displays the general configuration of a deployed Web Service, such as the name that appears in the Deployments table, name of the WAR or JAR file in which it is packaged, and name that appears in the WSDL that describes the Web Service.

Deployment Name:	integrations-service	The name of the Web Service. More Info...
Module Name:	integrations-service-ejb.jar	The name of the Web Service JAR file depending on the implements. More Info...
Service Name:	AllocPublishingService	The name of this Web Service file that defines the public

Creating an OC4J RIB Admin Role

This section details the process of creating a separate RIB related OC4J admin role and user. This is an optional, but recommended step that will allow the RIB installation and administration by a user other than the oc4jadmin.

General steps to create the roles and user:

- Create a role (rib-oc4j-administrators) specific to rib.
- Create a user (riboc4jadmin) with password.
- Add the previously created user to this role.
- Assign privileges and permissions to the created role. This will assign the "deployment-role" with the required permissions.
- Create security mappings to this role.

These steps have to be performed on each rib-<app>-oc4j-instance where a RIB (rib-app) will be deployed.

Role and User Creation

This section describes how the Oracle Application Server Enterprise Manager can be used to create the role and users.

Note: For details on security and information on creation of roles and users refer to the Oracle® Application Server Administrator's Guide 10g Release 3 (10.1.3.3).

These steps require a user that has ascontrol_admin role. By default this is the oc4jadmin user and role.

1. Open a browser and go to the Oracle Application asconsole url:

http://<hostname>:<port>/em

where hostname - is the hostname on which the OAS is running.

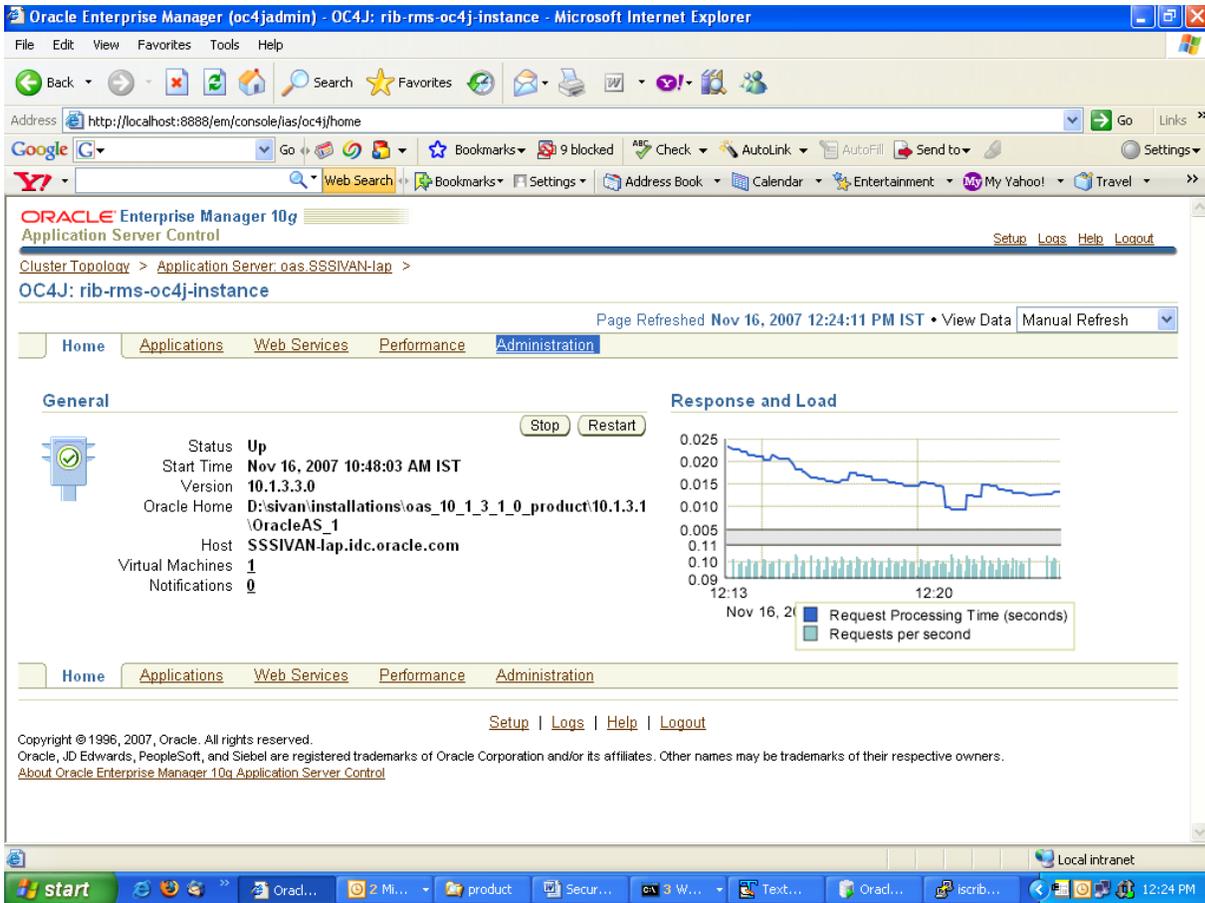
port - is the port in which the OAS is listening for http request.

e.g: http://localhost:7777/em

e.g: http://localhost:7777/em

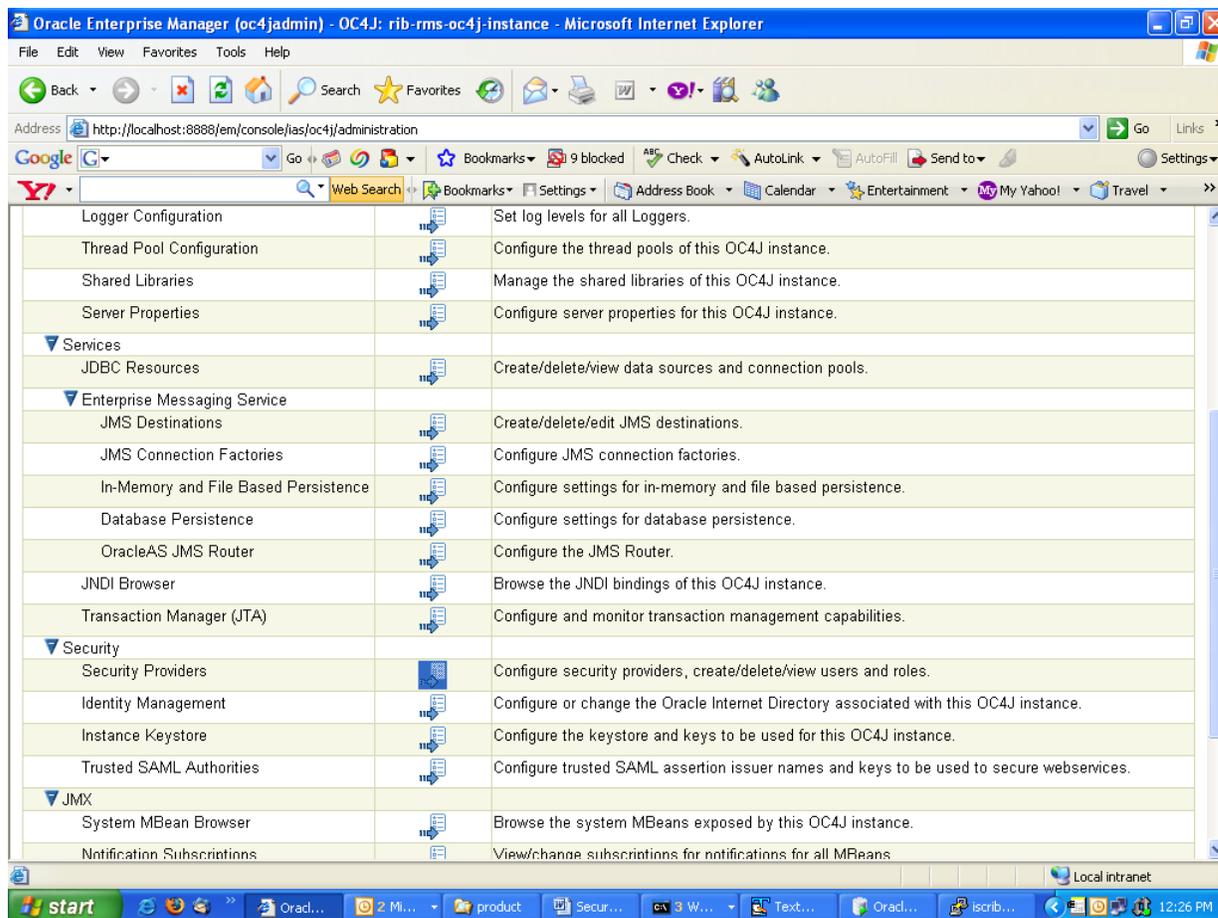
2. Make sure that the rib-<app>-oc4j-instance is up and running.

3. Select the oc4j instance for which the role and user needs to be created.
For example, rib-rms-oc4j-instance.
4. Select the **Administration** tab.



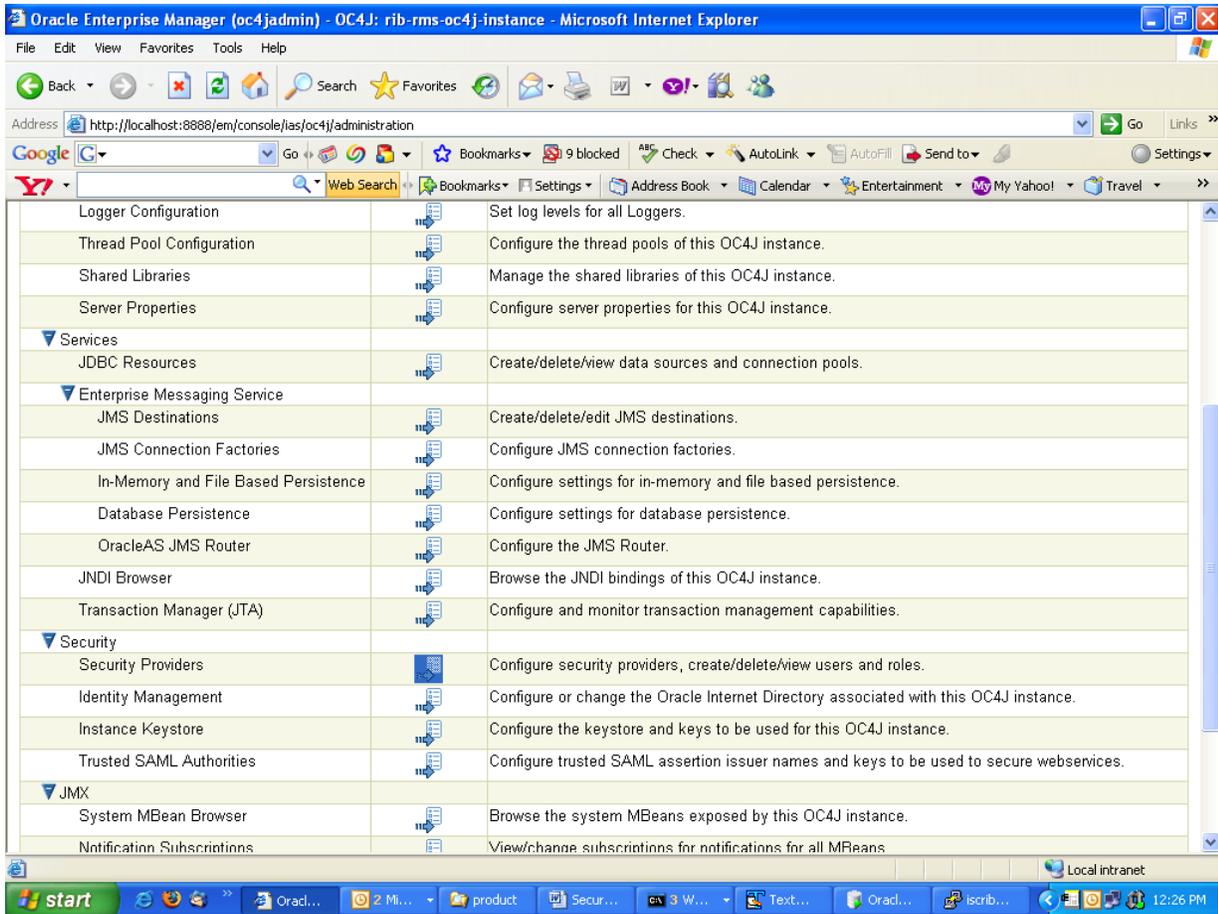
This displays a page with Administration tasks like "Properties", "Services", "Security," etc.

5. Under "Security" option, select **Security Providers** and select the icon under the **Go to task** column of the table.



On the Security Providers screen, select the **Instance Level Security**.

6. Select the **Realms** tab on the Instance Level Security.



7. Select the jazn.com realm. Click the number in the **roles** column to create roles.

Oracle Enterprise Manager 10g
Application Server Control

Cluster Topology > Application Server: oas.SSSIVAN-lap > OC4J: rib-rms-oc4j-instance > Security Providers >
Instance Level Security

Page Refreshed Nov 16, 2007 12:31:43 PM IST

Security Provider Type: **File-Based Security Provider**

Security Provider Attributes: **File-Based Security Provider**

General Realms

Search

Name Go

Results

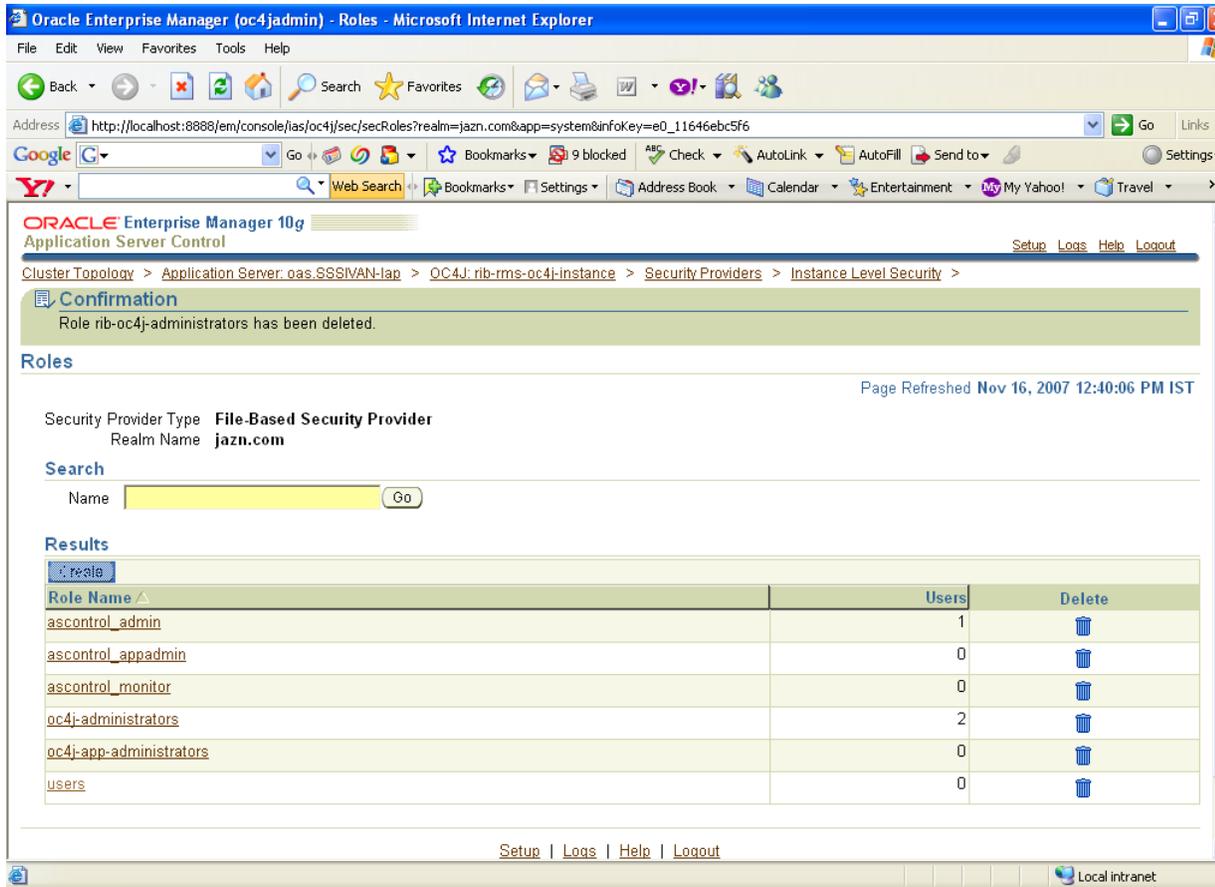
Create

Realm Name ▲	Roles	Users	Delete
jazn.com	?	?	

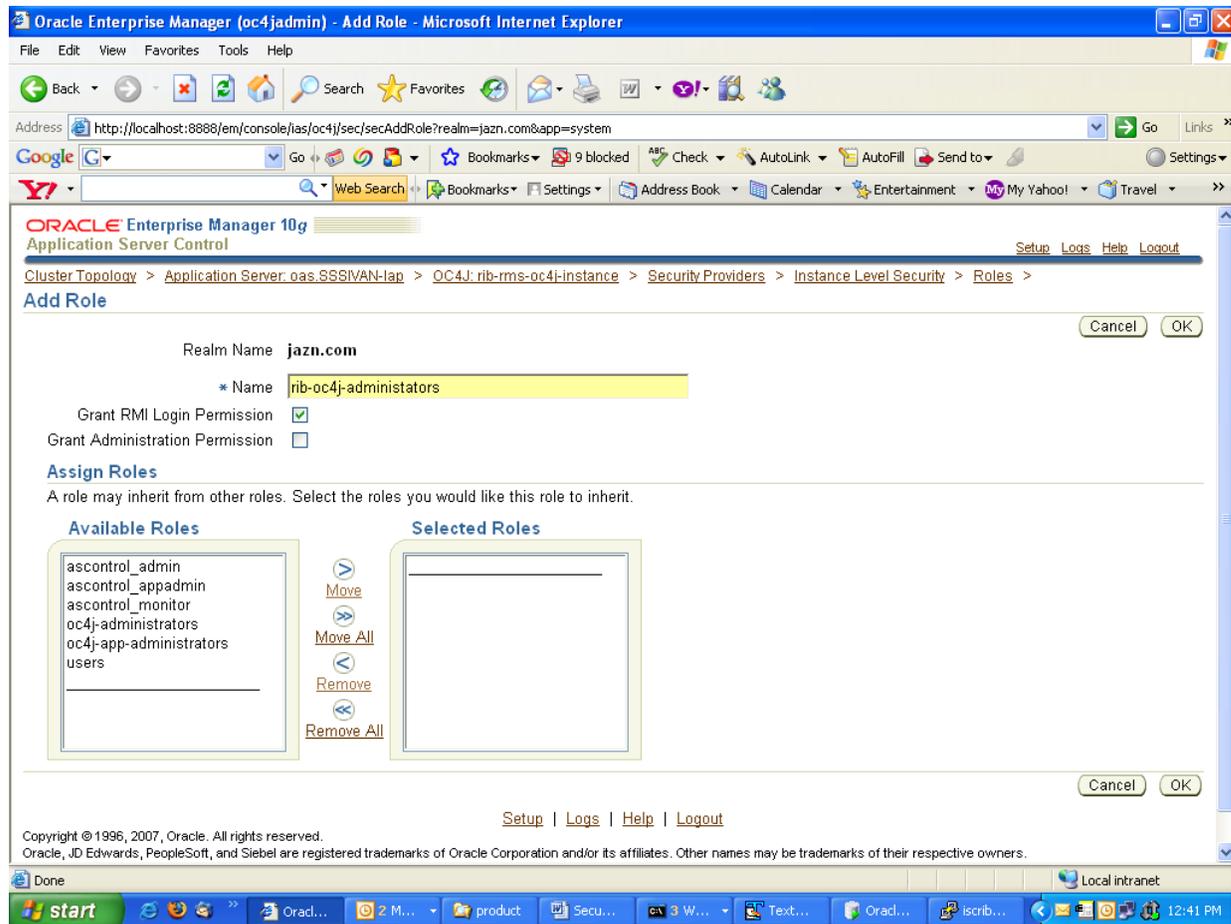
General Realms

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[About Oracle Enterprise Manager 10g Application Server Control](#)

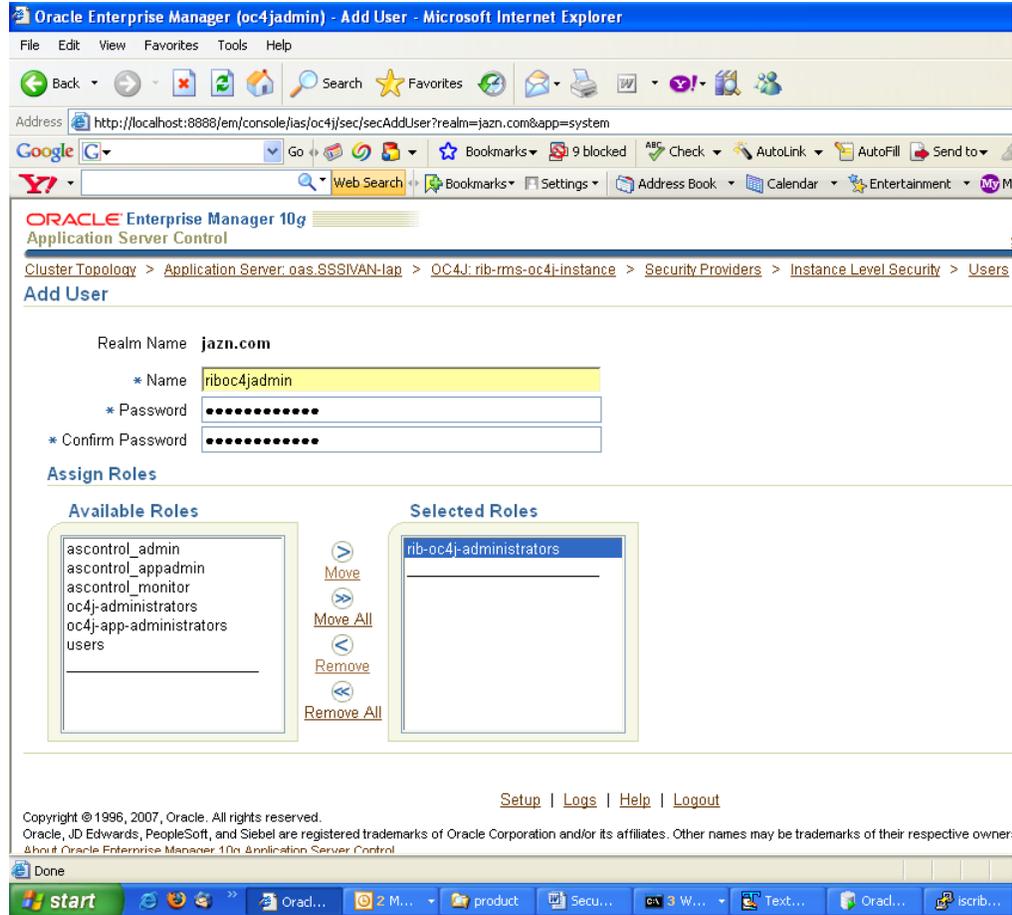
8. Select Create.



- Provide the name of the role as "rib-oc4j-administrators" and choose **Grant RMI login Permissions** check box option and create the role.



10. Return to the "Instance Level Security" screen. Select the **Users** column to display the "Users" page.
11. On the "Users" page, use the **Create** button to create a user with name = "riboc4jadmin" and a suitable password. Move the previously created role "rib-oc4j-administrators" to the "Selected Roles" text selection box.



Security Role Mapping

The new "rib-oc4j-administrators" role must be added to the <security-role-mapping> in the appropriate oc4j-instance XML files. This requires using a text editor to directly edit the content of these files.

Note: Create a backup of the files before editing.

All of the files are located in the <rib-app-oc4j-instance> home directory in the \$ORACLE_HOME/j2ee sub-directories.

For example: /home/wsadmin/product/10.1.3.3/OracleAS_6/j2ee/rib-rms-oc4j-instance

system-application.xml

In the system-application.xml file under the <oc4j-instance-home>/config directory, the role has to be added in the <security-role-mapping> node.

For example: /home/wsadmin/product/10.1.3.3/OracleAS_6/j2ee/rib-rms-oc4j-instance/config

```
<namespace-access>
```

```

<read-access>
  <namespace-resource root="">
    <security-role-mapping>
      <group name="administrators" />
      <group name="oc4j-administrators"/>
      <group name="ascontrol_admin"/>
      <group name="rib-oc4j-administrators"/>
      <group name="users"/>
    </security-role-mapping>
  </namespace-resource>
</read-access>
<write-access>
  <namespace-resource root="">
    <security-role-mapping>
      <group name="administrators" />
      <group name="oc4j-administrators"/>
      <group name="ascontrol_admin"/>
      <group name="rib-oc4j-administrators"/>
      <group name="users"/>
    </security-role-mapping>
  </namespace-resource>
</write-access>
</namespace-access>

```

orion-application.xml

In the orion-application.xml file under the <oc4j-instance-home>/application-deployment/ascontrol directory, the role has to be added in the <security-role-mapping> node.

For example: /home/wsadmin/product/10.1.3.3/OracleAS_6/j2ee/rib-rms-oc4j-instance/>/application-deployment/ascontrol

```

<security-role-mapping name="rib-oc4j-administrators">
  <group name="rib-oc4j-administrators" />
</security-role-mapping>

```

This step maps the deployment role to the J2EE role.

orion-ejb-jar.xml

To allow the J2EE role to be used inside the application, edit the orion-ejb-jar.xml file present under <oc4j-instance-home>/application-deployments/admin_ejb directory.

For example: /home/wsadmin/product/10.1.3.3/OracleAS_6/j2ee/rib-rms-oc4j-instance/>/application-deployment/ admin_ejb

This completes the creation and mapping of the users and roles. Restart the oc4j instance after these changes.

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)
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 `jndi_provider.xml` file.

9. Oracle Retail Central Office (ORCO)
10. Oracle Retail Back Office (ORBO) or Back Office with Labels and Tags (ORLAT)
11. Oracle Retail Store Inventory Management (SIM)
12. Oracle Retail Predictive Application Server (RPAS)
13. Oracle Retail Merchandise Financial Planning (MFP)
14. Oracle Retail Size Profile Optimization (SPO)
15. Oracle Retail Assortment Planning (AP)

- 16.** Oracle Retail Item Planning (IP)
- 17.** Oracle Retail Item Planning configured for COE (IPCOE)

- 18.** Oracle Retail Integration Bus (RIB)
- 19.** Oracle Retail Point-of-Service (ORPOS)
- 20.** Oracle Retail Mobile Point-of-Service (ORMPOS)
- 21.** Oracle Retail Analytics Applications
- 22.** Oracle Retail Data Warehouse (RDW)
- 23.** Oracle Retail Workspace (ORW)