

# Oracle® Retail Integration Bus

Release Notes

Release 13.0.2

January 2009

---

This document highlights the major changes for Oracle Retail Integration Bus (RIB) Release 13.0.2. RIB 13.0.2 includes numerous technical changes and defect fixes.

Oracle Customer Support investigates submitted issues assuming that all released updates have been applied. It is the customer's decision when to apply a new release; however, delays in applying updates can complicate the support process.

## Release Overview

Oracle Retail Integration Bus Release 13.0.2 is a follow-on release after RIB 13.0.1, with enhancements to the core Oracle Retail Integration Bus and roll-up of defect fixes since RIB 13.0.1. The enhancements include the following:

- Support for multiple Java Messaging Server (JMS) instances
- Support for multiple hospital retries
- Tools enhancements
- Payload refactoring

The RIB 13.0.2 release includes numerous functional and technical changes. The following Oracle Retail applications participate in enterprise functional integration using RIB:

- Oracle Retail Merchandising System (RMS)
- Oracle Retail Store Inventory Management (SIM)
- Oracle Retail Price Management (RPM)

---

---

**Note:** The RIB 13.0.2 release is a full installation and not a patch over RIB 13.0 or 13.0.1.

---

---

## Hardware and Software Requirements

See the *Oracle Retail Integration Bus Installation Guide* for information about the following:

- Hardware and software requirements
- Oracle Retail application software compatibility

## Technical Enhancements

The RIB 13.0.2 release includes the following technical enhancements. For more details, see RIB documentation, particularly the *Oracle Retail Integration Bus Implementation Guide* and *Oracle Retail Integration Bus Operations Guide*.

### Core Functionality

The following changes affect the core functionality.

- Support for multiple Java Messaging Service (JMS) instances  
RIB supports a multi-JMS configuration. The multiple JMS instances are of the same type, so that the message family components in a single container can communicate with multiple JMS instances if configured that way.
- Multiple error hospital retry  
RIB has supported single error hospital retry, but this release supports multiple error hospital retry adapters. Multiple error hospital retry adapters configuration can be based on the message family topic/JMS configuration.

### Payloads

The following change affects RIB payloads:

- RIBDate refactoring  
Due to some XML schema compatibility issues, the RIBDate in the payloads has been refactored.

### RIB Tools

The following are enhancements to RIB tools:

- Integration of tools  
Tools such as RDMT, RIHA, Artifacts Generator, and Test Harness are integrated so that these tools fetch the common configuration information from a common source (rib-deployment-env-info.xml) during deployment, as well as at run time.
- Hot fix installer enhancements  
Whenever a defect fix is applied, user-friendly reports are generated that display the file change history.
- Error hospital schema extraction and verification  
The installation of EHS (Error Hospital Schema) is simplified by making the installation of EHS independent and adding EHS installation verification.

## RIB Deliverables

The RIB release contains the infrastructure, components, and adapters to connect two or more applications together. The RIB deliverables are different from earlier releases. There are three distinct deliverables (.ZIP files) with this release of RIB:

- RIB kernel

This file contains all code related to infrastructure and framework. The framework code takes care of publishing messages, logging, transactional integrity, interpretation of integration flow, and so on. This file does not contain any functional or domain-specific information, so the kernel is immune to functional changes. Overall, this is common infrastructure code for all application PAKs.

- RIB functional PAKs

This file contains configuration information needed for individual applications. This configuration is used by the deployer to build the separate application PAKs. This file also contains the functional artifacts .war file with all the functional payloads.

- RIB tools

This file contains auxiliary tools and utilities that aid administration, management, verification, troubleshooting, and diagnosis of RIB. The Diagnosis and Monitoring Tool Kit (RDMT), Hospital Administration (RIHA), PL/SQL stubs (Stubby), and others are packaged in this file.

Notable differences for the RIB deliverables are as follows:

- RIB does not deliver prepackaged PAKs Enterprise Archive (.ear) files. These files are built using the deployer tool. See the *RIB Operations Guide* for details.
- The kernel file is a separate deliverable that is not affected by functional changes.
- The files PlsqlApiStubs (Stubby) and JavaEeAPIStubs are test harness tar balls for stubbing the real PL/SQL and Java EE applications.

## RIB Functional PAKs

RIB application PAKs adhere to the following naming conventions.

### Common Names

The file name format for common names is as follows:

```
RIBPak<RIB highest version>for<application name><application minimum version supported>
```

For example, RIBPak1302forRMS1302 is the RIB 13.0.2 PAK for RMS 13.0.2.

The format for <application minimum version supported> is X.XX.XXX, where:

- X denotes major version
- XX denotes minor version
- XXX indicates patch/minor version

## Packaging File Names

The file name format for packaging files is as follows:

```
ribpak<RIB highest version>for<application name><application minimum version supported>_<language>_ga.tar
```

For example, RibPak13.0.2ForRms13.0.2\_eng\_ga.tar is the RIB 13.0.2 PAK for RMS 13.0.2.

## Summary of .ZIP and .TAR Files

File Name	Description / Contents
RibKernel13.0.2ForAll13.x.xApps_eng_ga.jar	Common infrastructure code for all RIB applications.
RibFuncArtifact13.0.2ForAll13.0.2Apps_eng_ga.tar	Message payloads and definitions (RIB objects) for RIB.
RibPak13.0.0ForRms13.0.2_eng_ga.tar	RMS-specific configuration files that enable connectivity of RIB 13.0.2 to RMS 13.0.2
RibPak13.0.2ForRpm13.0.2_eng_ga.tar	RPM-specific configuration files that enable connectivity of RIB 13.0.2 to RPM 13.0.2
RibPak13.0.2ForSim13.0.2_eng_ga.tar	SIM-specific configuration files that enable connectivity of RIB 13.0.2 to SIM 13.0.2.
RibPak13.0.2ForTafr13.0.2_eng_ga.tar	TAFR-specific application and configuration files that host TAFRs use in the integration flows that provide integration between different applications.
Rib_13.0.2_tools.zip	Tar balls for tools such as RDMT and RIHA.
Rdmt13.0.2ForAll13.x.xApps_eng_ga.tar	RIB Diagnostics and Monitoring Tool Kit (RDMT).
Riha13.0.2ForAll13.x.xApps_eng_ga.tar	Oracle Retail Integration Hospital Administrator (RIHA).
JavaEeApiStubs13.0.2ForAll13.x.xApps_eng_ga.tar	Stubs to mimic Java EE applications such as SIM and RPM.
PlsqlApiStubs13.0.2ForAll13.x.xApps_eng_ga.tar	Stubs to mimic PL/SQL interfaces for PL/SQL applications such as RMS and RWMS.

## Issues Addressed in This Release

The following defect fixes and enhancements are included in RIB 13.0.2.

BugDB Number	Summary
7209670	Error hospital retry problem for entries with JMS reason code.
7312980	Problem in which the namespace was not generated.
7293414	RDMT shell script JMX_APP_STATE.sh.
7412095	.JAR files for Artifacts Generator tool.
7460166	Recompiled objects newly generated from Artifacts Generator tool.
7323016	Addresses an issue with OutOfMemory and Excessive CPU usage.
7389556	Changed receipt_nbr from number to varchar, for family ReceiptDesc.xsd.

## Issues Addressed by Hot Fixes

The following hot fixes are available on Metalink to address some issues in this release. Refer to the following BugDB numbers for more information:

**7595129:** This patch contains the functional fixes such as “the TAFR naming issue” in case of multichannel configuration where the TAFR name exceeded the length allowed by AQ, which is only 30 characters.

**7665134:** This patch contains the fix for tool RDMT:TAFR message utility so that the TAFR utility can function outside of RIB-HOME as well as within RIB-HOME.

## Known Issues

The following are known issues in the RIB 13.0.2 release.

Issue ID	Description	Mitigation / Workaround
HPQC#1999	When multiple JMS servers are deployed on the same database server (a database having two or more AQ schemas), an issue occurs in OC4J in which admin objects for managing the JMS topics are not generated correctly. As a result, the adapters shut down.	For AQ, the recommended deployment configuration is to deploy each JMS in its own database. If the database is shared for multiple JMSs, this situation occurs.
HPQC#1996	PL/SQL applications consume too many database connections.	It may be necessary to repeatedly restart the server. This issue seems to happen only in certain environments.
HPQC#1558	An "unable to resolve type" error occurs. Sometimes this error occurs even though the Oracle objects are valid.	This issue seems to go away after a few retries, or after recompiling the objects while RIB is shut down.

Issue ID	Description	Mitigation / Workaround
--	Multichannel configuration and PL/SQL APIs.	The multichannel configuration cannot be applied to all the PL/SQL (RMS o RWMS) APIs. See the integration sections of RMS and RWMS documentation for more information.
HPQC#2008	The RIB log shows the exception "ORA-21700: object does not exist or is marked for delete."	This error occurs sometimes even if the objects are valid. The frequency of occurrence of this situation is very low. It can be resolved, however, by recompiling the objects. (RIB should be shut down during this operation.)

## Related Documentation

For more information, see the following documents in the Oracle Retail Integration Bus Release 13.0.2 documentation set:

- *Oracle Retail Integration Bus Implementation Guide*
- *Oracle Retail Integration Bus Installation Guide*
- *Oracle Retail Integration Bus Operations Guide*

Copyright © 2009, Oracle. All rights reserved.

The Programs (which include both the software and documentation) contain proprietary information; they are provided under a license agreement containing restrictions on use and disclosure and are also protected by copyright, patent, and other intellectual and industrial property laws. Reverse engineering, disassembly, or decompilation of the Programs, except to the extent required to obtain interoperability with other independently created software or as specified by law, is prohibited.

The information contained in this document is subject to change without notice. If you find any problems in the documentation, please report them to us in writing. This document is not warranted to be error-free. Except as may be expressly permitted in your license agreement for these Programs, no part of these Programs may be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose.

If the Programs are delivered to the United States Government or anyone licensing or using the Programs on behalf of the United States Government, the following notice is applicable:

U.S. GOVERNMENT RIGHTS Programs, software, databases, and related documentation and technical data delivered to U.S. Government customers are "commercial computer software" or "commercial technical data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the Programs, including documentation and technical data, shall be subject to the licensing restrictions set forth in the applicable Oracle license agreement, and, to the extent applicable, the additional rights set forth in FAR 52.227-19, Commercial Computer Software--Restricted Rights (June 1987). Oracle USA, Inc., 500 Oracle Parkway, Redwood City, CA 94065.

The Programs are not intended for use in any nuclear, aviation, mass transit, medical, or other inherently dangerous applications. It shall be the licensee's responsibility to take all appropriate fail-safe, backup, redundancy and other measures to ensure the safe use of such applications if the Programs are used for such purposes, and we disclaim liability for any damages caused by such use of the Programs.

Oracle, JD Edwards, PeopleSoft, and Siebel are registered trademarks of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

The Programs may provide links to Web sites and access to content, products, and services from third parties. Oracle is not responsible for the availability of, or any content provided on, third-party Web sites. You bear all risks associated with the use of such content. If you choose to purchase any products or services from a third party, the relationship is directly between you and the third party. Oracle is not responsible for: (a) the quality of third-party products or services; or (b) fulfilling any of the terms of the agreement with the third party, including delivery of products or services and warranty obligations related to purchased products or services. Oracle is not responsible for any loss or damage of any sort that you may incur from dealing with any third party.

#### **Value-Added Reseller (VAR) Language**

##### **Oracle Retail VAR Applications**

The following restrictions and provisions only apply to the programs referred to in this section and licensed to you. You acknowledge that the programs may contain third party software (VAR applications) licensed to Oracle. Depending upon your product and its version number, the VAR applications may include:

(i) the software component known as **ACUMATE** developed and licensed by Lucent Technologies Inc. of Murray Hill, New Jersey, to Oracle and imbedded in the Oracle Retail Predictive Application Server - Enterprise Engine, Oracle Retail Category Management, Oracle Retail Item Planning, Oracle Retail Merchandise Financial Planning, Oracle Retail Advanced Inventory Planning, Oracle Retail Demand Forecasting, Oracle Retail Regular Price Optimization, Oracle Retail Size Profile Optimization, Oracle Retail Replenishment Optimization applications.

(ii) the **MicroStrategy** Components developed and licensed by MicroStrategy Services Corporation (MicroStrategy) of McLean, Virginia to Oracle and imbedded in the MicroStrategy for Oracle Retail Data Warehouse and MicroStrategy for Oracle Retail Planning & Optimization applications.

(iii) the **SeeBeyond** component developed and licensed by Sun Microsystems, Inc. (Sun) of Santa Clara, California, to Oracle and imbedded in the Oracle Retail Integration Bus application.

(iv) the **Wavelink** component developed and licensed by Wavelink Corporation (Wavelink) of Kirkland, Washington, to Oracle and imbedded in Oracle Retail Mobile Store Inventory Management.

(v) the software component known as **Crystal Enterprise Professional and/or Crystal Reports Professional** licensed by SAP and imbedded in Oracle Retail Store Inventory Management.

(vi) the software component known as **Access Via™** licensed by Access Via of Seattle, Washington, and imbedded in Oracle Retail Signs and Oracle Retail Labels and Tags.

(vii) the software component known as **Adobe Flex™** licensed by Adobe Systems Incorporated of San Jose, California, and imbedded in Oracle Retail Promotion Planning & Optimization application.

(viii) the software component known as **Style Report™** developed and licensed by InetSoft Technology Corp. of Piscataway, New Jersey, to Oracle and imbedded in the Oracle Retail Value Chain Collaboration application.

(ix) the software component known as **DataBeacon™** developed and licensed by Cognos Incorporated of Ottawa, Ontario, Canada, to Oracle and imbedded in the Oracle Retail Value Chain Collaboration application.

You acknowledge and confirm that Oracle grants you use of only the object code of the VAR Applications. Oracle will not deliver source code to the VAR Applications to you. Notwithstanding any other term or condition of the agreement and this ordering document, you shall not cause or permit alteration of any VAR Applications. For purposes of this section, "alteration" refers to all alterations, translations, upgrades, enhancements, customizations or modifications of all or any portion of the VAR Applications including all reconfigurations, reassembly or reverse assembly, re-engineering or reverse engineering and recompilations or reverse compilations of the VAR Applications or any derivatives of the VAR Applications. You acknowledge that it shall be a breach of the agreement to utilize the relationship, and/or confidential information of the VAR Applications for purposes of competitive discovery.

The VAR Applications contain trade secrets of Oracle and Oracle's licensors and Customer shall not attempt, cause, or permit the alteration, decompilation, reverse engineering, disassembly or other reduction of the VAR Applications to a human perceivable form. Oracle reserves the right to replace, with functional equivalent software, any of the VAR Applications in future releases of the applicable program.

