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 functioality.

- 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 13.0.2to 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 utlity 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 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*