Oracle Retail Integration Bus 13.2 Implementation
Technical Essentials
Exam Study Guide

Bridgette Smith
Enablement Director

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Objective & Audience

Objective
Help you prepare to take the Oracle Retail Integration Bus 13.2 Implementation Technical Essentials (1Z0-410) Exam by providing pointers to resources that you can use in your preparation.

Targeted Audience

• Technical Implementers
• Candidates should have knowledge of architecture, core concepts, Retail Integration Bus (RIB) hospital and errors, application types, configuration and deployment, implementation tools, operations and support, performance tuning and integration with external systems, customization and extensibility, application specific topics and documentation.
• Individuals who possess a strong foundation and expertise in implementing the Oracle Retail Integration Bus.
• Up-to-date training and field experience are recommended.
Exam Topics & Objectives

Exam Topics
The Oracle Retail Integration Bus 13.2 Implementation Technical Essentials (1Z0-410) Exam consists of 12 topics:

1. Architecture and Standards
2. Core Concepts
3. RIB Hospital / Errors
4. Oracle Retail RIB Application Types
5. Configuration and Deployment
6. Implementation Tools
7. Operations and Support
8. Performance Tuning
9. Integration with External
10. Customization and Extensibility
11. Application Specific Topics
12. Documentation

Exam Objectives
The exam objectives are defined by learner or practitioner level of knowledge:

- **Learner-level**: questions require the candidate to recall information to determine the correct answer.

- **Practitioner-level**: questions require the candidate to derive the correct answer from the application of their knowledge, which can only be attained by extensive experience with the product.
Training Options

For each exam topic there have been identified alternative training options that are available at Oracle. The training options are divided into two categories:

• **Boot Camps**
  The Boot Camps are designed as a "jump start" training to enhance your skills by providing role-based training on industry-leading Oracle solutions and services. The boot camps are built as concise, intensive, and real-time training to give partners a competitive advantage as they prepare to build powerful solutions for their own customer base. Partners can choose to attend these boot camps in class or in a live virtual class format to maximize the effectiveness and the time allocated to training.

• **Instructor-Led Training**
  Partners can take any publicly-scheduled OPN and Oracle University courses. Benefit from hands on experience to gain real working skill and work toward Oracle certifications.

• **Online Training**
  Oracle Partners are entitled free access to the Oracle Knowledge Center (OUKC), a vast library of recorded product courses. New courses are regularly added to the library, providing partners with the latest information and training to master new products or to increase proficiency on the new releases.
Reference Materials

We recommend that partners preparing for the exam should also review the Guided Learning Paths (GLPs) as well as take the in-class or online trainings below to support their preparation to take the Oracle Retail Integration Bus 13.2 Implementation Technical Essentials (1Z0-410) Exam:

- **Boot Camp:**
  - Oracle Retail Integration Bus (RIB) Technical 13.2.x Enhancements Boot Camp

- **Oracle University Training:**
  - 13.2 TOI: Oracle Retail Integration Bus (RIB) - RIB Hospital Administration (RIHA) Technical Overview
  - 13.2 TOI: Oracle Retail Integration Bus (RIB) Functional Overview
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  - Oracle Retail Integration Bus (RIB) Product Overview Ed 1 OLC

- **OPN GLP:**
  - Oracle Retail Merchandise Operations Management 13.2 Implementation Technical Specialist
  - Oracle Retail Integration Bus 13.2 Implementation Technical Consultant

The following locations are useful for finding additional reference materials to be used:

- **Oracle eDelivery**
  Provides copies of software and current documentation found at:  
  http://edelivery.oracle.com/

- **Oracle University**
  Provides on-line courses and information on available courses found at:  
  http://education.oracle.com/

- **My Oracle Support**
  Provides access to patch sets and enables logging of technical system requests found at:  
  https://support.oracle.com
## Topic 1: Architecture and Standards

### Objectives:

<table>
<thead>
<tr>
<th>Level</th>
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- Explain the Retail Integration Bus (RIB) architecture
- Explain the underlying standards applicable to the RIB architecture

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### Sample Questions:

1. Which JMS distribution mechanism does RIB use for delivering message to subscribers?
   - a. Publish
   - b. Subject
   - c. Holding area
   - d. Distribution
Topic 2: Core Concepts

Objectives:

- Explain the concepts of Message Families and Event Types  Level: Learner
- Describe the purpose and benefits of Business Objects IDs  Level: Learner
- Describe Message Envelope/Payloads  Level: Learner
- Illustrate a typical Message Lifecycle  Level: Learner
- Describe Guaranteed message delivery / Sequencing  Level: Learner
- Describe the different Adapter types  Level: Learner
- Describe the purpose and utilization of Routing information  Level: Learner
- Describe Message Components (e.g. Java Message Service (JMS) message selectors)  Level: Learner

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Sample Questions:

1. Select the three common message-type prefixes.
   a. Pre
   b. Dir
   c. Upd
   d. App

2. What is the message property called that is set and used by RIB messages?
   a. Customer
   b. Vendor
   c. Origination
   d. Values
Topic 3: RIB Hospital / Errors

Objectives:

- Describe RIB Hospital dependency check
- Explain the core hospital components
- Modify data in hospital tables to resolve hospitalized
- Resolve and retry hospitalized messages using RIHA (RIB Hospital Administration)
- Explain the JMS delivery count
- Modify hospital configuration parameters
- Describe the Hospital Database tables/Schema’s

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<td>Describe RIB Hospital dependency check</td>
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Sample Questions:

1. When the Java Message Service (JMS) server is down or RIB has a problem publishing to the JMS server, all messages with reason code RUN are retried by the RUN retry adapter. Which is the retail application that needs the RUN retry adapter?
   - a. SIM
   - b. WMS
   - c. MFP
   - d. Allocation
Topic 4: Oracle Retail RIB Application Types

Objectives:

- Explain the database components of PLSQL RIB applications
- Describe the PLSQL RIB API's
- Describe the key components of the J2EE application implementation

Level

Learner

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Sample Questions:

1. Which database entity is used to define RIB message payload content for non-DLED-based message families?
   a. Tables
   b. Grid
   c. http
   d. flag
Topic 5: Configuration and Deployment

Objectives:

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<tr>
<td>Explain the purpose and content of Func Artifact Property files</td>
<td>Learner</td>
</tr>
<tr>
<td>Use the RIB Application Build and Deploy toolset</td>
<td>Practitioner</td>
</tr>
<tr>
<td>Explain the structure and content of RIB Home</td>
<td>Learner</td>
</tr>
<tr>
<td>Use the RIB Installer</td>
<td>Practitioner</td>
</tr>
<tr>
<td>Configure RIB Security</td>
<td>Practitioner</td>
</tr>
<tr>
<td>View Log files and Edit Logging levels</td>
<td>Practitioner</td>
</tr>
<tr>
<td>Deploy the RIB to a WebLogic Server (WLS) instance</td>
<td>Practitioner</td>
</tr>
<tr>
<td>Deploy the RIB in a Clustered environment</td>
<td>Practitioner</td>
</tr>
<tr>
<td>Locate and Identify Application Properties/files</td>
<td>Practitioner</td>
</tr>
<tr>
<td>Identify the RIB database configuration tables and their purpose (RIB settings, RIB_type_settings, L10N)</td>
<td>Learner</td>
</tr>
<tr>
<td>Configure the RIB for multiple RWMS instances</td>
<td>Practitioner</td>
</tr>
<tr>
<td>Edit property file to filter messages</td>
<td>Practitioner</td>
</tr>
<tr>
<td>Utilize JMS(AQ)</td>
<td>Practitioner</td>
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Sample Questions:

1. What kind of jar does a Java EE publisher use?
   a. Session jar
   b. Message jar
   c. RIB jar
   d. Payload jar
Objectives:

- Explain the purpose and content of Func Artifact Property files  
  Level: Learner
- Use the RIB Application Build and Deploy toolset  
  Level: Practitioner
- Explain the structure and content of RIB Home  
  Level: Learner

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Sample Questions:

1. What two actions is RDMT used for?
   a. Checking messages waiting on JMS topics
   b. Checking RIB health
   c. Deploying a RIB application
   d. Retrying hospitalized messages
   e. Starting up and shutting down WebLogic Server instances
Topic 7: Operations and Support

Objectives:
- Start/Stop and monitor Adapters using the RIB Admin GUI
- Manage the RIB applications with the WLS Admin Console
- Describe the JMS provider
- Optimize the JMS provider

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Sample Questions:
1. The Oracle Enterprise Messaging Service (OEMS) provides a robust architecture for integrating business-critical applications. OEMS reduces the time, cost, and effort required to build integrated and distributed applications and is built on Java Enterprise Edition (JavaEE) standards such as the _____ and ______.
   a. Enterprise Service Bus (ESB) and BPEL
   b. Java Message Service (JMS) and Message Driven Beans (MDB)
   c. Oracle Retail Integrator (ARI) and PIP
   d. JavaEE Connector Architecture (JCA) and JMX
   e. Java Persistent API (JPA) and JMX
Topic 8: Performance Tuning

Objectives:

- Apply Multi-channeling to a message family  
  Level: Practitioner
- Modify message aggregation levels for message families  
  Level: Practitioner
- Describe the performance tuning capabilities  
  Level: Learner
- Set Logging levels for Development and Production environments  
  Level: Practitioner
- Use Timing logs to identify performance bottlenecks  
  Level: Practitioner
- Add Family-specific hospital retry adapters  
  Level: Practitioner

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Sample Questions:

1. What does configuring RIB to disable multichannel for a message family allow for?
   a. More hospital errors
   b. Single WMS instances
   c. Message throughput
   d. Message consumption

2. It is appropriate to consider _____ if the tuning of integration APIs work when addressing performance issues.
   a. Re-installation
   b. Create a new architecture
   c. Channel parallel processes
   d. Create a new environment
Topic 9: Integration with External

Objectives:
• Connect the RIB to File-based systems
• Describe Integration Gateway Services (IGS) purpose and capabilities
• Connect the RIB to Fusion Middleware
• Use Retail Service-Oriented Architecture Enabler (RSE) to create custom webservices
• Utilize PIP’s

Level
Practitioner
Learner
Practitioner
Practitioner
Practitioner

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Sample Questions:
1. If a webservice uses a custom payload for output, the custom attribute should be set to what?
   a. 3
   b. True
   c. False
   d. Custom

2. Between Oracle Retail Merchandising and what two other applications does the Oracle Application Integration Architecture (AIA) delivers pre-built Process Integration Packs (PIP)?
   a. E-Business Suite Financials
   b. Siebel CRM
   c. PeopleSoft Enterprise Financials
   d. JD Edwards EnterpriseOne
Topic 10: Customization and Extensibility

Objectives:

- Add custom RIB payload content using ExtOf nodes
- Use the Artifact Generator (AG) to customize payloads
- Add new custom message families
- Explain the use of and purpose of the Test Harness
- Utilize LocOf message extensions
  
  Utilize Localization Flexible Attribution Solution (LFAS) for country-specific functional changes
- Identify support for Custom Flex Attributes (CFA)/Flex Fields within message families
- Use and deploy the Payload Mapper

Level

- Practitioner
- Learner

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Sample Questions:

1. To correct errors when using new payload XSDs, the name you assign to the XSD must begin with ______ or _______.
   
   a. Int
   b. IntDf
   c. EtOf
   d. DtOr
Topic 11: Application Specific Topics

Objectives:

- **Apply changes for RIBRMS (RIB to Retail Merchandising System Integration)**
- **Apply changes for RIBTAFR (RIB to TAFR Integration)**
- **Apply changes for RIBSIM (RIB to Store Inventory Management Integration)**
- **Apply changes for RIBWMS (RIB to Warehouse Management System Integration)**
- **Apply changes for RIBRPM (RIB to Retail Price Management Integration)**
- **Apply changes for RIBRFM (RIB to Retail Fiscal Management System Integration)**
- **Apply changes for RIBAIP (RIB to Advanced Inventory Planning Integration)**

Level

Practitioner

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Sample Questions:

1. What do the letter RFAT stand for?
   a. Routing, Filter, Action, Transfer
   b. Refine, Forward, Action, Transport
   c. Removal, Factorization, Addition, Throughput
   d. Registering, Formatting, Address, Testing
### Objectives:
- Use the Message Interface Catalog  
- Practitioner
- Use Mapping reports to identify sources/targets  
- Practitioner
- Find message family details  
- Practitioner
- Use the Detailed Wiring Guide  
- Practitioner

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### Sample Questions:
1. Where would an individual interested in researching the physical packaging structure of the Functional Artifacts packaged for all released Oracle Retail applications?
   - a. RibFuncArtifact13.2.0ForAll13.2.0Apps_eng_ga.tar
   - b. RetailFuncArtifact13.2.0ForAll13.2.0Apps_eng_ga.tar
   - c. FuncArtifact13.2.0ForAll13.2.0Apps_eng_ga.tar
   - d. AllRetailFuncArtifact13.2.0ForAll13.2.0Apps_eng_ga.tar
Exam Registration

• **How to register for the exam?**
  

  Before a registration can be submitted, a Pearson VUE profile must be created using your Company ID. Your Company ID can be obtained by contacting your local Oracle Partner Business Center or by signing in to your OPN account. Your Company ID is located in the section on the right under "Company information".

  Please follow these instructions in order to properly set-up your Pearson VUE account for the first time.

• **Have you completed an Oracle Certification Exam in the past?**
  
  Due to systems enhancements, each partner who has completed an Oracle Certification Exam will need to update their Pearson VUE profile in order to receive credit and for those records to appear in the [OPN Competency Center](http://www.oracle.com/corporate/education-training/opa).

• **How to get full recognition as Certified Implementation Specialist?**
  
  To get full recognition as a Certified Implementation Specialist you need to:
  
  A. Update your Pearson VUE profile with your Company ID
  
  B. Activate your Certview Account
  
  Please follow these instructions and your records will be properly recorded.
SOFTWARE. HARDWARE. COMPLETE.