



Certified Program in Oracle Integration Cloud (OIC)

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Course Modules



- 1. OIC Integrations Architectural Overview**
- 2. Integrations Life Cycle & Packages**
- 3. Fundamentals of Creating Integrations**
- 4. Creating OIC Adapter Connections**
- 5. Configuring Trigger Connections**
- 6. Configuring Invoke Connections**
- 7. Data Mapping**
- 8. Orchestration Integration Actions**
- 9. Additional OIC Capabilities**
- 10. File Handling Concepts and Options**
- 11. Orchestration Scopes and Fault Handling**



1. OIC Integrations Architectural Overview

- Oracle Integration Cloud
- Oracle Integration Editions
- Oracle Integration Cloud Services
- OIC: Process Builder
- Process Builder – Creating Applications
- OIC: Visual Builder
- OIC: Using Features Together
- OIC: Integrations
- SaaS-to-SaaS Integration
- SaaS-to-On-Premises Integration
- OIC Integrations Value Proposition
- OIC Integration Components
- Integration Development and Management Workflow
- Accessing the Integration Designer Page

2. Integrations Life Cycle & Packages

- Prebuilt Integrations
- Oracle-Created Prebuilt Integrations
- Business Accelerators
- Business Accelerator Example
- Integration Recipes in the Oracle Marketplace
- Downloading a Prebuilt Integration Recipe
- Importing Prebuilt Integrations



- Oracle-Created Integration Solutions
- Customizing Prebuilt Integrations
- OIC Integration Packages
- Viewing Packages
- Creating Packages
- Exporting Packages
- Additional Considerations
- Life Cycle Operations for Integrations
- Activation Options
- Integration Versioning
- Activation of Integration Versions
- Activation of Integration Versions: Example

3. Fundamentals of Creating Integrations

- What Is an OIC Integration?
- OIC Integration Styles
- Integration Style Patterns Described
- Publish/Subscribe Example
- Creating a Publisher Integration
- Creating a Subscriber Integration
- App Driven Orchestration Style
- Scheduled Orchestration Style
- Integration Development and Management Workflow
- Basic Integration Development Workflow Steps
- Testing a SOAP Interface Trigger Connection

4. Creating OIC Adapter Connections

- Oracle Cloud Adapters: Benefits
- Oracle Cloud Adapters: Supported Features
- Available OIC Adapters
- OIC Connections Review
- What Is a Connection?
- Creating a Connection
- Getting Started (Review)
- Providing Basic Connection Information (Review)
- Defining Connection and Security Properties
- Testing the Connection
- Uploading SSL Certificates
- On-Premises Connectivity Agent Framework
- Agent Runtime Behavior
- Available Adapters for On-Premises Use Cases
- Deployment Topology
- Workflow For Using the Connectivity Agent
- Creating an Agent Group in OIC
- Downloading the Agent Installer
- Preparing to Run the Connectivity Agent Installer
- Executing the Connectivity Agent Installer
- Post-Installation: Examining the Files
- Verifying the Agent Connectivity in the OIC Console
- Associating the Connection With the Agent Group
- Agent Monitoring
- Manually Restarting the Installed Agent



5. Configuring Trigger Connections

- Integration Development (Review)
- Message Exchange Patterns
- Implementing the Message Exchange Pattern
- Using the Adapter Endpoint Configuration Wizard

6. Configuring Invoke Connections

- Integration Development
- Message Exchange Patterns Revisited
- Using the Adapter Endpoint Configuration Wizard

7. Data Mapping

- Integration Development
- OIC Data Mapping
- Launching the OIC Data Mapper
- OIC Data Mapper: Designer View
- Data Structure View Options
- Basic Field Mapping: Drag & Drop
- Basic Field Mapping: Using the Expression Builder
- Using the Set Text Mode
- Search Data Fields
- Filter the Source or Target Data Structures
- Using XPath Functions and Operators
- Working With XSLT Statements
- Automatically Create for-each Statements
- Repeat a Target Element to Map to Different Sources



- Testing Your Mappings
- Data Mapping Recommendations
- Enabling the Oracle Recommendations Engine
- Displaying By Strength
- Selecting and Accepting Recommendations
- Complete the Data Mapping
- Creating Transformations Outside of OIC
- Preparing for XSL Export
- Exporting the XSL File
- Setting Up JDeveloper to Edit the XSL File
- Using the XSLT Editor
- Import the Edited XSL File into OIC
- Using Custom JavaScript Functions
- Adding JavaScript Libraries
- Using Custom XPath Functions in the OIC Mapper
- Executing Orchestration JavaScript Functions

8. Orchestration Integration Actions

- Integration Development
- Orchestration Styles
- Editing View Options
- Pseudo View
- Using the Inline Menu
- Repositioning Invoke and Action Nodes
- Using Outbound Invokes
- Data Section



- Assign Action
- EDI Translate Action
- Map Action
- Stage File Action
- Stage File: Read Entire File
- Stage File: Read File in Segments
- Stage File: Write File
- File Schema Options
- Configure the Format Definition
- Stage File: List Files
- Stage File: Unzip File / Zip Files
- Stage File: Encrypt File / Decrypt File
- Invoking JavaScript Functions
- Invoking Local Integrations
- Local Integration Selection Wizard
- Invoking a Local OIC Process

9. Additional OIC Capabilities

- Orchestration Styles
- Scheduled Integrations
- Creating a Schedule
- Defining a Basic Schedule
- Defining an Advanced Schedule
- Initiating an Integration Run Schedule
- Managing Integration Schedules
- Monitoring Integration Runs

- Resubmitting Failed Runs
- Initiating Runs Using the Integration's REST API
- Using Schedule Parameters
- Overriding Schedule Parameters
- Filtering and Tracking Business Identifiers
- Viewing the Integration Instance
- Viewing Instance Details
- Monitoring and Managing Errors
- Viewing Errors
- Discarding Errors
- Resubmitting Failed Instances
- Automated Bulk Recovery
- Setting Logging Levels
- REST API for Oracle Integration
- Moving Assets Between Environments
- Migration Overview

10. File Handling Concepts and Options

- Integration Style Options
- OIC Tools and Options for File Handling
- File Adapter Options Summary
- FTP Adapter Options Summary
- Differences Between File and FTP Adapters
- SOAP and REST Adapter Options
- Stage File Action Operations Summary
- Stage File Action



- File-Based Mapper Functions
- Scheduled Orchestration Parameters
- File Sizes Support Summary
- How to Read a Structured File?
- How to Read an Opaque File?
- How to Process Large Files?
- How to Decrypt and Encrypt Files?
- How to Read/Write Native File Formats?
- Using the Native Format Builder Wizard
- OIC Design/Modeling Considerations for Fusion Apps

11. Orchestration Scopes and Fault Handling

- Scope Containers
- Nested Scopes
- Scope Context Considerations
- Faults in Integration Flows
- Designing Beyond the “Happy Path”
- Global Fault Handler
- Fault Handling Logic
- Defining How to End the Integration Flow
- Scope Fault Handlers
- Additional Fault Handlers
- Catching Faults
- Fault Mitigation
- Adding Scopes Inside of Fault Handlers



Course Curriculum



- Accessing Fault Information
- Leveraging the Throw New Fault Action
- Configuring the Throw New Fault Action
- Skip Condition Considerations
- Resubmitting Failed Instances
- Extended Error Handling
- Parking Lot Pattern
- File-based Integrations

