

Oracle Service Bus 12c: Design and Integrate Services

Duration: 4 Days

What you will learn

This Oracle Service Bus 12c: Design and Integrate Services training takes a use case driven approach to explain the OSB capabilities of connecting, mediating and coordinating the interaction between different applications and services across a variety of platforms, protocols, and interface technologies. Expert Oracle University instructors discuss OSB as a common infrastructure in support of a broad scale SOA initiative.

Learn To:

Use Oracle Service Bus 12c to make services interact in a decouple manner.

Implement enterprise-quality message flows with Service Bus 12c.

Implement message validation, routing, transformation and enrichment.

Integrate services with legacy systems.

Enable service level abstraction.

Benefits to You

Taking this course will teach you how to use Oracle Service Bus 12c to make services interact in a decouple manner - overcoming the challenges of location transparency, transport protocol mediation, message validation, message routing, message transformation, message enhancement and security in an integration project. Oracle Service Bus can help your enterprise integration without having to write your own integration logic for every application.

Audience

Application Developers

SOA Architect

System Integrator

Related Training

Required Prerequisites

Working knowledge of messaging, web service and SOA

Course Objectives

Implement message validation, routing, transformation and enrichment

Integrate services with legacy systems

Provide reliable delivery of messages between applications

Use Oracle Service Bus and OWSM to secure services

Test, debug, and troubleshoot Oracle Service Bus applications

List Oracle Service Bus capabilities

Enable service level abstraction

Describe Oracle Service Bus architecture and functional layers

Expose a SOAP service as a REST service

Course Topics

Introducing Oracle Service Bus

About Enterprise Service Bus

Introducing Oracle Service Bus

About Oracle Service Bus and Oracle SOA Suite

Describing Service Bus installation and configuration options

Getting Started with Service Bus Applications

Explaining basics of WSDL and XSD

Discussing Service Bus components

Creating a simple Service Bus application

Discussing features for developers

Basics of Message Flow

Discussing message flow

About context variables

About pipeline templates

Explaining debugging

Validating Messages and Error Handling

Explaining message validation

Discussing fault handling

Discussing reporting

Transforming Messages

Overview of message transformation in Service Bus

About XPath functions

Using XSLT Mapper to create XSL transformations

Using XQuery Mapper to create XQuery transformations

Transforming non-XML to XML with nXSD

Routing Messages

Overview of message routing

About content-based routing

About dynamic routing

Enriching Messages

Discussing message enrichment use cases
Explaining enrichment using Service Callout
Describing enrichment using Java Callout

Processing Messages with Concurrent Calls

Introducing split-join
About split-join patterns
About split-join constructions
Implementing a split-join

Adapters and Transports

About JCA transport and adapters
Discussing SOA-DIRECT transport
Exposing SOAP-based services as REST services using the REST binding

Reliable Messaging

Discussing reliable messaging support in Service Bus
About quality of service
Discussing configurations for reliable communication

Service Bus Security

About security concepts
Discussing Oracle WSM security
About access control policies

Advanced Topics

Discussing principles and best practices of using Service Bus
About service result caching and SLA alerts
Integrating with MFT
About message re-sequencing
Describing continuous integration with Maven