Java Training: Creating Professional Web Services (JWSEC, 4 jours)

Description

The course Creating Professional Web Services (Java Training) is an exploration of Web Services using JEE. Starting with web services fundamentals, the training explores XML, DTD, XSD, SOAP, WSDL & UDDI. The Java API for XML, JAXB, JAXP, JAXM, JAX-RPC and SAAJ. The course teaches you to create simple & complex Java Web Services, including authorization & authentication. The training also demonstrates how to use Enterprise Beans in Java Web Services development.

Tarifs

- Tarification: \$3,750/person
- Rabais de 10% lorsque vous inscrivez 3 personnes.

Plan de cours

The Web Services Architecture

Evolution of Web Services

HTTP and XML

Interoperability Stacks

The Wire Stack and SOAP

The Description Stack and WSDL

The Discovery Stack and UDDI

Hosting Web Services

XML Basics

XML Overview

Well Formed XML

Valid XML: DTDs

Valid XML: XSD Schemas

Transforming XML: XSL

XML to XML

Java Architecture For XML Binding (JAXB)

JAXB Overview

Working with Schemas

Schema Binding and the Java Representation

Exploring Generated Classes and Interfaces

Marshalling/Unmarshalling the Document

Validating Data

A Complete Example

Weblogic And Web Services

The WebLogic Platform

Web Services Features

BEA-Speak for Web Services

WebLogic Workshop

WebLogic Server

Ant Tasks for Web Services

Development Process

Testing Web Services

The Java Web Services Architecture
Web Services and the JEE
WebLogic Support for Standard APIs
JAXP
SAAJ
JAXM
Low-Level Web Services
JAX-RPC High-Level Web Services JAXR, WebLogic, UDDI
SOAP
SOAP Messaging Model
SOAP Namespaces
Envelope, Header and Body
Faults, Attachments
Using XML Schema
Section 5 Encoding
Arrays
Multiple-Reference Values
SAAJ
The SAAJ Object Model
Parsing a SOAP Message
Bridges to JAXP
Working with Namespaces
Creating a Message
WebLogic SAAJ: Bugs and Limitations
SAAJ Web Services
Messaging Scenarios
Point-to-Point Messaging
SAAJ Services using JAX-RPC
Creating a JAXM Connection
Sending a Message
WSDL
Web Services as Components
The Need for an IDL
WSDL Description Model
The Abstract Model Service Semantics
Message Description
Messaging Styles The County Medal Bosto Samina Laustine
The Concrete Model Ports, Services, Locations
Extending WSDL Bindings
JAX-RPC Two Paths
How It Works
Type Mappings
Generating from WSDL
Generating from Java
Which Way to Go?
Limitations
Congrating Web Sarvices From Java
The Java-to-XML Mapping
The Java-to-WSDL Mapping
The oute to model mapping

WebLogic JAX-RPC: Bugs and Limitations Analyzing the Domain High-Level Ant Tasks web-services.xml When Things Don#39;t Fit **Extensible Type Mapping** Generating Java Web Services From WSDL The XML-to-Java Mapping The WSDL-to-Java Mapping **Operation Inputs and Outputs Building a Service Client** Locating a Service Java-to-WSDL Interoperability Creating a Web Service Mid-Level Ant Tasks Deploying the Service WSDL-to-Java Interoperability Controlling Names and URIs Web Services And EJB **Enterprise JavaBeans** EJB 3.0 and JAX-RPC Session Beans as Web Services How It Works The Service Endpoint Interface SOAP as an RMI Transport Generating From WSDL Message Context And Message Handlers **Handling SOAP Headers** Servlet Endpoint Context **EJB Endpoint Context** Using SAAJ JAX-RPC Message Handlers **Handler Chains Processing Model and Patterns** Using JAXP SOAP Attachments **SAAJ** Revisited MIME Java Activation Framework The MimeHeaders Class The AttachmentPart Class **Identifying Attachments Reading Attachments** Security Web Services and Security Threats, Tools and Techniques **Encryption and Signature** JEE Techniques XML and SOAP Solutions