



Ultimate Web Services

Abstract

At the inception of Web Services, the buzz was about its simplicity and interoperability.

Nowadays, most organizations face great complexity with regards to Web Services implementations.

The course provides a comprehensive view of the Web Services world and its standards and practices, to allow developers to create interoperable, simple and maintainable Web Services.

Target Audience

Java Developers, Team Leaders and Project Managers.

Prerequisites

Experienced Java Programmers.

Familiarity with Web Services.

Content:

Web Services Recap (1 hour):

- Web Services Overview.
- SOAP 1.2.
- WSDL.

Binding Styles (1 hour):

- What are Binding Styles?
- RPC/Document Encoded/Literal.
- The Document-Wrapped Style.

WSDL 2.x (1 hour):

- What's new with WSDL2?
- MEPs.
- Interface Inheritance.

Complementary Standards (5 hours):

- WS-Addressing.
- WS-Transactions.
- WS-ReliableMessaging.
- WS-Notifications.



WS-Security.

JAX-WS 2.x (12 hours):

Creating Web Services.
Writing Clients.
Asynchronous Clients.
Stateful Services.
Handlers.
Packaging.
Using Complementary Standards.

Performance Considerations (4 hours):

XML Infoset & Fast Infoset.
Working with Attachments.
MTOM.
Achieving Performance Goals.

RESTful Web Services (4 hours):

What is REST.
Writing RESTful Services with JAX-RS.
SOA vs. ROA.

Best Practices (4 hours):

Interoperability with WS-I.
Testing Web Services.
Architectural Design Patterns.

Advanced AXIS2 (6 hours):

AXIS2 Overview.
Configuration Files.
Pipes & Handlers.
Binding Frameworks.
Complementary Standards.
Unique Features.

Additional Frameworks Overview (2 hours):

Apache CXF.
JBossWS.

Duration: 5 days.