Business Process Execution Language for Web Services : BPEL and BPEL4WS

Matjaz Juric, Benny Mathew, Poornachandra Sarang

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An architect's and developer's guide to orchestrating web services using BPEL4WS. This book is a comprehensive guide to the usage and syntax of the Business Process Execution Language for Web Services (BPEL4WS). Two major BPEL4WS servers, the Oracle BPEL Process Manager and Microsoft BizTalk Server 2004 are covered in detail, and an overview of other major BPEL4WS servers is provided. The book contains practical examples on using BPEL4WS. Web services provide the basic technical platform required for application interoperability. They do not, however, provide higher level control, such as which web services need to be invoked, which operations should be called and in what sequence. Nor do they provide ways to describe the semantics of interfaces, the workflows, or e-business processes. BEPL is the missing link to assemble and integrate web services into a real business process. BPEL4WS standardizes process automation between web services. This applies both within the enterprise, where BPEL4WS is used to integrate previously isolated systems, and between enterprises, where BPEL4WS enables easier and more effective integration with business partners. This book provides detailed coverage of BPEL4WS, its syntax, and where and how it is used. The book begins with an overview of web services, showing both the foundation of, and the need for, BPEL. The web services orchestration stack is explained, including standards such as WS-Security, WS-Coordination, WS-Transaction, WS-Addressing, and others. The BPEL language itself is explained in detail, with Code snippets and complete examples illustrating both its syntax and typical construction. Having covered BPEL itself, the book then goes on to show BPEL is used in context. by providing an overview of major BPEL4WS servers. It covers the Oracle BPEL Process Manager and Microsoft BizTalk Server 2004 in detail, and shows how to write BPEL4WS solutions using these servers. The book features : specification of business processes in BPEL4WS, BPEL4WS and its relation to other standards, comprehensive coverage of the BPEL4WS syntax with examples, orchestrating web services using BPEL4WS, explanation of advanced BPEL4WS features such as compensation, concurrency, links, scopes, events, correlations, etc., the Oracle BPEL4WS Process Manager and BPEL Designer, using Microsoft BizTalk Server 2004 as a BPEL4WS server, the web services orchestration stack The book blends a broad architectural view with the detailed coverage of syntax and practical implementation required for working with BPEL This book covers the BPEL4WS standard and two BPEL4WS servers - the Oracle BPEL4WS Process Manager and Microsoft BizTalk Server 2004. It provides comprehensive coverage of the BPEL4WS syntax and shows how to use BPEL4WS by examples. The book prepares for the coverage of the BPEL4WS standard and servers with a chapter on the web services orchestration stack. This book aimed at technical architects and developers in the technical design phase of advanced e-business solutions dealing with the issues of orchestration, transactions, coordination, and security. The book presumes knowledge of XML and web services (SOAP, WSDL, UDDI), Web services development (either on J2EE or .NET), and Multi-tier architectures.

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