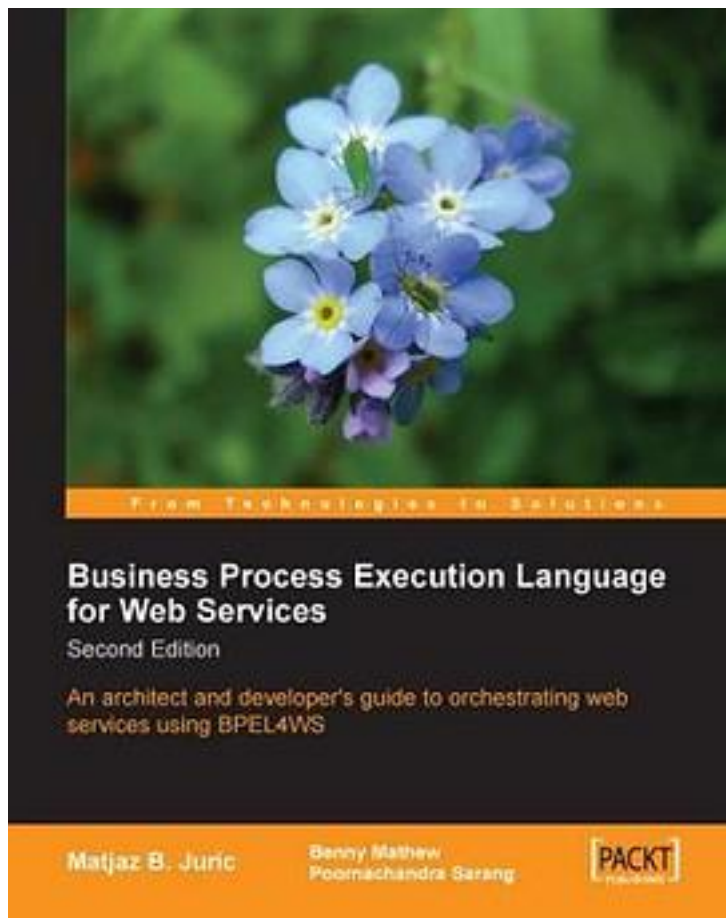# Business Process Execution Language for Web Services BPEL and BPEL4WS 2nd Edition

[Business Process Execution Language for Web Services BPEL and BPEL4WS 2nd Edition_下载链接1_](#)

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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 core functionality for distributed e-business applications using SOAP, WSDL and UDDI. These building blocks can then be orchestrated into a complete business process 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. BPEL 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.

In providing a standard descriptive structure BPEL4WS enables enterprises to define their business processes during the design phase. Wider business benefits can flow from this through business process optimization, reengineering, and the selection of most appropriate processes.

Supported by major vendors — including BEA, Hewlett-Packard, IBM, Microsoft, Novell, Oracle, SAP, Sun, and others — BPEL4WS is becoming the accepted standard for business process management.

This book provides detailed coverage of BPEL4WS, its syntax, and where, and how, it is used. It begins with an overview of web services, showing both the foundation of, and 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.

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