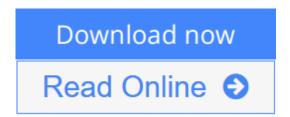# Oracle SOA BPEL Process Manager 11gR1 – A Hands-on Tutorial

By Ravi Saraswathi, Jaswant Singh

Oracle SOA BPEL Process Manager 11gR1 – A Hands-on Tutorial By Ravi Saraswathi, Jaswant Singh

Your step-by-step, hands-on guide to Oracle SOA BPEL PM 11gR1

Overview

- Learn by doing, with immediate results
- Create, integrate, and troubleshoot BPEL services with Oracle BPEL Process Manager and JDeveloper step by step
- Design, develop, test, deploy, and run a full SOA composite application using industry leading practices

In Detail

BPEL, Business Process Execution Language is the definitive standard in writing and defining actions within business processes. Oracle BPEL Process Manager R1 is Oracle's latest offering, providing you with a complete end-to-end platform for the creation, implementation, and management of your BPEL business processes that are so important to your service-oriented architecture.

"Oracle SOA BPEL Process Manager 11g: A Hands-On Tutorial" is your guide to BPEL design and development, SOA Suite platform troubleshooting, and engineering in a detailed step-by-step guide working real-world examples and case studies.

Using industry-leading practices you will start by creating your first BPEL process and move onto configuring your processes, then invoking, orchestrating, and testing them. You will then learn how to use architect and design services using BPEL, performance tuning, integration, and security, as well as high availability, troubleshooting, and modeling for the future.

"Oracle SOA BPEL Process Manager 11g: A Hands-On Tutorial" is your complete hands-on guide to Oracle SOA BPEL Process Manager 11g.

What you will learn from this book

- Learn BPEL language and create basic and complex BPEL processes using JDeveloper and Oracle SOA Suite BPEL Process Manager Platform
- Follow step-by-step instructions for creating and configuring adaptors, human workflow, and advanced BPEL orchestration techniques
- Practise deploying, testing, debugging, tuning, error handling, and troubleshooting Oracle SOA Suite Platform and BPEL processes
- Integrate BPEL Process manager with Oracle Service Bus, Business Rules Engine, Business Activity Monitoring (BAM), and Single-Sign-On (SSO)
- Learn how to achieve scalability, high availability, and failover-failback capabilities to deliver Business Continuity and Disaster Recovery (BCDR) objectives
- Discover the evolution and future of BPEL and compare BPEL with BPMN and other leading process technologies

Approach

This hands-on, example-driven guide is a practical getting started tutorial with plenty of step-by-step instructions for beginner to intermediate level readers working with BPEL PM in Oracle SOA Suite

Who this book is written for

Written for SOA developers, administrators, architects, and engineers who want to get started with Oracle BPEL PM 11g. No previous experience with BPEL PM is required, but an understanding of SOA and web services is assumed

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Editorial Review

About the Author

Ravi Saraswathi

Ravi Saraswathi is an IT executive with more than 20 years of global professional experience. Ravi has expertise in aligning business and IT, SOA implementation, IT strategy, cloud infrastructure design, IT operations, security, architecture, and performance tuning. For over a decade now, Ravi has been successfully delivering large-scale technical projects and solutions. He is an expert in open source and vendor-based middleware products. From his experience, he gained a solid understanding of the tools and technologies needed to create large-scale web-based software and services.

Ravi currently heads the middleware engineering group for a highly-reputed Fortune 500 financial company. Ravi has spoken in several international conferences such as Apache, WebLogic conferences, and Java user group meetings. His professional focus is on technical management, SOA, middleware architecture, and infrastructure design.

Ravi holds a Masters in Technology Management from George Mason University and is a Bachelor of Engineering in Electronics and Communication Engineering from Karnataka University. Ravi holds a CIO University Certificate from Federal CIO University, General Services Administration, United States. He has extensive experience in architecting and designing solutions using various Oracle Fusion and open source middleware products.

Ravi is an aspiring leader and entrepreneur. He has founded a successful IT professional consulting company. He has trained many associates in Fusion Middleware 11g to gain the skills for developing and designing solutions using Oracle SOA Suite and Service Bus. He actively contributes to the online community for open source and commercial middleware products, SOA, cloud, BPM, and infrastructure architecture technologies.

Ravi holds various IT certifications such as TOGAF, Java, ITIL, Oracle, and WebLogic. His interests include open source containers, Java, infrastructure architecture, troubleshooting methodologies, and software design. Ravi blogs at **www.ravisaraswathi.com**.

Jaswant Singh

Jaswant Singh brings over 16 years of experience as an Executive Information Technologist with multiple industry verticals. Jaswant presently assists Fortune 1000 CXOs in creating, implementing, and managing technology strategy and roadmaps to gain efficiencies over existing capabilities and build new capabilities economically. As a CTO, he has co-founded Suchna!, a web portal linking people worldwide.

Jaswant has expertise in Service Oriented Architecture (SOA), cloud computing, big data, middleware technologies, and web architectures. He is also an expert in Business Continuity & Disaster Recovery (BCDR), Data Center migration and consolidation, and web applications security. He is known for building

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Jaswant has been a recognized industry leader on emerging technologies at various professional trade conferences, companies, and educational institutes. He has been bestowed upon with various awards for outstanding performance, top talent, technological innovations, and technical publications. Jaswant blogs at **http://techblog.baghel.com**.

Jaswant received his CIO Certification from Federal CIO University, General Services Administration, United States. He received his M.S. degree in Technology Management from School of Management, George Mason University, and his M.S. degree in Mathematics with specialization in Operations Research and Statistics from Department of Mathematics, Indian Institute of Technology, Bombay. He served as the President of a cultural student body at the Indian Institute of Technology, Bombay.

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