Service-Oriented Architecture (SOA): Concepts, Technology, and Design

By Thomas Erl

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The first start-to-finish, step-by-step guide to modeling and designing SOA. Using Service-Oriented Architecture (SOA), enterprises can deliver high-value business services more rapidly and effectively, and gain unprecedented flexibility and value from existing IT infrastructure. SOA has earned the support of virtually every major software provider, and some 75% of enterprises surveyed are now investing in SOA technology and expertise. In Service-Oriented Architecture: Concepts, Technology, and Design, the author of 2004's best-selling SOA book presents the first end-to-end-tutorial for modeling and designing successful service-oriented architectures from the ground up. Writing in plain English, Thomas Erl provides step-by-step process descriptions for analyzing and designing any service or service-oriented business process definition.

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Editorial Review

Review
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From the Back Cover

"Service Oriented Architecture is a hot, but often misunderstood topic in IT today. Thomas articulately describes the concepts, specifications, and standards behind service orientation and Web Services. For enterprises adopting SOA, there is detailed advice for service-oriented analysis, planning, and design. This book is a must read!"
—Alex Lynch, Principal Consultant, Microsoft Enterprise Services

"One primary objective of applying SOA in design is to provide business value to the solutions we build. Understanding the right approach to analyzing, designing, and developing service-oriented solutions is critical. Thomas has done a great job of demystifying SOA in practical terms with his book."
—Rick Weaver, IBM Senior Consulting Certified SW I/T Specialist

"A pragmatic guide to SOA principles, strategy, and best practices that distills the hype into a general framework for approaching SOA adoption in complex enterprise environments."
—Sameer Tyagi, Senior Staff Engineer, Sun Microsystems

"A very timely and much needed contribution to a rapidly emerging field. Through clarifying the principles and nuances of this space, the author provides a comprehensive treatment of critical key aspects of SOA from analysis and planning to standards ranging from WS-specifications to BPEL. I'll be recommending this book to both clients and peers who are planning on embracing SOA principles."
—Ravi Palepu, Senior Field Architect, Rogue Wave Software

"Finally, an SOA book based on real implementation experience in production environments. Too many SOA books get lost in the technical details of Web Services standards, or simply repeat vendor hype. This book covers the really hard parts: the complex process of planning, designing and implementing service-oriented architectures that meet organizational goals. It is an essential companion to any software developer, architect, or project manager implementing—or thinking about implementing—a service-oriented architecture."
—Priscilla Walmsley, Managing Director of Datypic

"Thomas Erl's *Service-Oriented Architecture: Concepts, Technology, and Design* is as good an introduction to service-oriented architectures as one could wish for. In a single volume, it covers the entire topic, from theory to real-world use to technical details. The examples are superb and the writing is wonderfully clear."
—Ronald Bourret, Author, "XML and Databases"

"Finally an SOA book which gets to the point with real world answers and examples. Erl guides you on a real world SOA journey. From architecture design to industry standards, this book is well written and can be easily referenced for everyday use. When embarking on your own service orientated adventures, this is the book you want in your bag."
—Clark Sell, Vice President, CSell Incorporated

"Organizations struggling to evolve existing service-oriented solutions beyond simple Web Services now have an expert resource available. Leading the way to the true service-oriented enterprise, Thomas Erl demystifies the complexities of the open WS-I standards with detailed practical discussions and case studies. Erl's depth and clarity makes this work a superb complement to his Field Guide."
—Kevin P. Davis, PhD., Software Architect

"This book is an excellent guide for architects, developers, and managers who are already working with or are considering developing Web Services or Service-Oriented Architecture solutions. The book is divided into four sections. In the first section the fundamental technologies of XML, Web Services and Service-Oriented Architectures are described in detail with attention given to emerging standards. The book is well written and very thorough in its coverage of the subject. I recommend this book highly to anyone interested in enterprise level service architectures."
—Adam Hocek, President and CTO, Broadstrokes, Inc.

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The foremost "how-to" guide to SOA
Service-Oriented Architecture (SOA) is at the heart of a revolutionary computing platform that is being adopted world-wide and has earned the support of every major software provider. In *Service-Oriented Architecture: Concepts, Technology, and Design*, Thomas Erl presents the first end-to-end tutorial that provides step-by-step instructions for modeling and designing service-oriented solutions from the ground up.

Erl uses more than 125 case study examples and over 300 diagrams to illuminate the most important facets of building SOA platforms: goals, obstacles, concepts, technologies, standards, delivery strategies, and processes for analysis and design.
His book's broad coverage includes

- Detailed step-by-step processes for service-oriented analysis and service-oriented design
- An in-depth exploration of service-orientation as a distinct design paradigm, including a comparison to object-orientation
- A comprehensive study of SOA support in .NET and J2EE development and runtime platforms
- Descriptions of over a dozen key Web services technologies and WS-* specifications, including explanations of how they interrelate and how they are positioned within SOA
- The use of "In Plain English" sections, which describe complex concepts through non-technical analogies
- Guidelines for service-oriented business modeling and the creation of specialized service abstraction layers
- A study contrasting past architectures with SOA and reviewing current industry influences
- Project planning and the comparison of different SOA delivery strategies

The goal of this book is to help you attain a solid understanding of what constitutes contemporary SOA along with step-by-step guidance for realizing its successful implementation.

About the Web Sites

Erl's Service-Oriented Architecture books are supported by two Web sites. http:// **www.soabooks.com**

provides a variety of content resources and http:// **www.soaspecs.com** supplies a descriptive portal to referenced specifications.

About the Author

Thomas Erl is a best-selling IT author and founder of CloudSchool.com™ andSOASchool.com ®. Thomas has been the world's top-selling service technology author for over five years and is the series editor of the Prentice Hall Service Technology Series from Thomas Erl (www.servicetechbooks.com), as well as the editor of the Service Technology Magazine (www.servicetechmag.com). With over 175,000 copies in print world-wide, his eight published books have become international bestsellers and have been formally endorsed by senior members of major IT organizations, such as IBM, Microsoft, Oracle, Intel, Accenture, IEEE, HL7, MITRE, SAP, CISCO, HP, and others.

Four of his books, Cloud Computing: Concepts, Technology & Architecture, SOA Design Patterns, SOA Principles of Service Design, and SOA Governance, were authored in collaboration with the IT community and have contributed to the definition of cloud computing technology mechanisms, the service-oriented architectural model and service-orientation as a distinct paradigm. Thomas is currently working with over 20 authors on several new books dedicated to specialized topic areas such as cloud computing, Big Data, modern service technologies, and service-orientation.

As CEO of Arcitura Education Inc. and in cooperation with CloudSchool.com™ andSOASchool.com ®, Thomas has led the development of curricula for the internationally recognized SOA Certified Professional (SOACP) and Cloud Certified Professional (CCP) accreditation programs, which have established a series of formal, vendor-neutral industry certifications.

Thomas is the founding member of the SOA Manifesto Working Group and author of the Annotated SOA Manifesto (www.soa-manifesto.com). He is a member of the Cloud Education & Credential Committee, SOA Education Committee, and he further oversees theSOAPatterns.org and CloudPatterns.org initiatives, which are dedicated to the on-going development of master pattern catalogs for service-oriented computing and cloud computing.

Thomas has toured over 20 countries as a speaker and instructor for public and private events, and regularly participates in international conferences, including SOA, Cloud + Service Technology Symposium and Gartner events. Over 100 articles and interviews by Thomas have been published in numerous publications, including the Wall Street Journal and CIO Magazine.

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