

The Prentice Hall Service-Oriented Computing Series from Thomas Erl

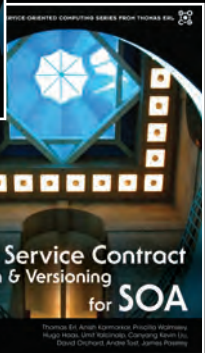


“Over the years Thomas’s books have provided a foundation for defining our SOA standards for over 200 services and [these books] contain the latest material and case studies which comprise the singular most important source of advice...”

— BOB HATHAWAY

Senior SOA Architect, SOA Object Systems Starwood Hotels

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SOA Governance: Governing Shared Services On-Premise and in the Cloud is the result of a multi-year project to collect proven industry practices for establishing IT governance controls specific to the adoption of SOA and service-orientation. Authored by world-renowned experts in the fields of SOA, IT governance, and cloud computing, this comprehensive book provides clear direction as to what does and does not constitute SOA governance, and then steps the reader through the most important industry governance practices, as they pertain to individual SOA project lifecycle stages.

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| 11. Governing Service Usage, Discovery, and Versioning Stages | H: Additional Resources |

"Accenture sees this book as a milestone that will support the rationale behind selling and delivering SOA governance projects around the world."

— DR. MATTHIAS ZIEGLER, Accenture
 — DR. JURE ZAKOTNIK, Accenture
 — THOMAS M. MICHELBACH, Accenture



SOA Design Patterns

by Thomas Erl
 (with additional contributors)
 Foreword by Grady Booch

9780136135166 | 864 PAGES | HARDCOVER

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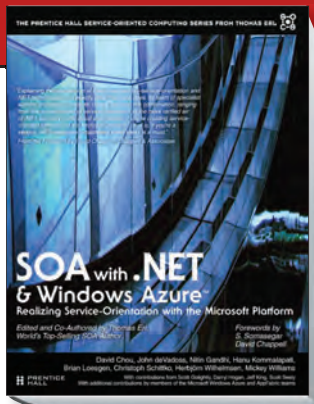
In cooperation with experts and practitioners throughout the SOA community, best-selling author Thomas Erl brings together the de facto catalog of design patterns for SOA and service-orientation. Over three years in development and subjected to numerous industry reviews, this full-color book with over 400 illustrations provides the most successful and proven design techniques to overcoming the most common and critical problems to achieving modern-day SOA. For more information, visit: soapatterns.com and soapatterns.org

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"SOA Design Patterns is an important contribution to the literature and practice of building and delivering quality software-intensive systems."

— GRADY BOOCH, IBM Fellow



9780131582316 | 912 PAGES | HARDCOVER

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SOA with .NET & Windows Azure

Realizing Service-Oriented Architecture with the Microsoft Platform

by David Chou, John deVadoss, Thomas Erl, Nitin Gandhi, Hanu Kommalapati, Brian Loesgen, Christoph Schittko, Herbjorn Wilhelmsen, and Mickey Williams
Forewords by S. Somasegar, David Chappell

This book is the Authoritative Guide to Building Service-Oriented Solutions with Microsoft .NET Technologies and the Windows Azure Cloud Computing Platform.

In **SOA with .NET and Windows Azure**, top Microsoft technology experts team up with Thomas Erl to explore service-oriented computing with Microsoft's latest .NET service technologies and Windows Azure innovations.

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SOA with REST

Realizing Service-Oriented Architecture with REST Technologies and Practices

by Raj Balasubramanian, Benjamin Carlyle, Thomas Erl, and Cesare Pautasso
Foreword by Stefan Tilkov

Historically, the most popular means of building services for SOA has been via the use of SOAP-based Web services. Because SOA as an architectural model and service-orientation as a design paradigm are technology and implementation-neutral, the opportunity exists for service-oriented solutions to be constructed with alternative distributed computing models, such as REST.

This book documents the convergence of REST and SOA by establishing how REST services can be realized in support of service-orientation. Salient topics are reinforced with comprehensive case studies using modern REST frameworks in combination with contemporary SOA models, patterns, practices, and concepts.

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| 6. REST-Inspired SOA Design Patterns | 12. Infrastructure Requirements for Service-Oriented REST Solutions |
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| 7. Service-Oriented Design Principles and REST Design | 13. Addressing Qualities of Service |
| 8. Designing the Service-Oriented REST Service | |

"This book illuminates the connection of the two domains in a manner that is concrete and practical, providing concise application to every day architectural challenges. Fantastic!"

— RYAN FRAZIER, Microsoft



9780136135173 | 848 PAGES | HARDCOVER

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For Web services to succeed as part of SOA, they require balanced, effective technical contracts that enable services to be evolved and repeatedly reused for years to come. Now, a team of industry experts presents the first end-to-end guide to designing and governing Web service contracts.

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 7. Fundamental WSDL Part I: Abstract Description Design
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 10. Fundamental WS-Policy: Expression, Assertion, and Attachment
 11. Fundamental Message Design: SOAP Envelope Structure and Header Block Processing
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 13. Advanced XML Schema Part II: Reusability, Derived Types, and Relational Design
 14. Advanced WSDL Part I: Modularization, Extensibility, MEPs, and Asynchrony
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 16. Advanced WS-Policy Part I: Policy Centralization and Nested, Parameterized, and Ignorable Assertions
 17. Advanced WS-Policy Part II: Custom Policy Assertion Design, Runtime Representation, and Compatibility
 18. Advanced Message Design Part I: WS-Addressing EPRs and MAP Headers
 19. Advanced Message Design Part II: WS-Addressing Messaging Rules and Design Techniques
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- PART IV: APPENDICES
- A. Case Study Conclusion
 - B. How Technology Standards are Developed
 - C. Alphabetical Pseudo Schema Reference
 - D. Namespaces and Prefixes Used in this Book
 - E. SOA Design Patterns Related to this Book

Web Service Contract Design & Versioning for SOA

by Thomas Erl,
Anish Karmarkar,
Priscilla Walmsley,
Hugo Haas, Umit Yalcinalp,
Canyang Kevin Liu,
David Orchard, Andre Tost,
and James Pasley
Foreword by David Chappell



SOA Principles of Service Design

by Thomas Erl

9780132344821 | 608 PAGES | HARDCOVER

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The key to succeeding with service-oriented architecture (SOA) is in comprehending the meaning and significance of its most fundamental building block: the service. It is through an understanding of service design that truly “service-oriented” solution logic can be created in support of achieving the strategic goals associated with SOA and service-oriented computing.

Formally endorsed by senior members of Intel, Microsoft, Oracle, IBM, BEA, Sun, Intel, HP, and SAP, this acclaimed book provides a thorough exploration of service engineering as it guides you through a comprehensive, insightful, and visually rich exploration of the service-orientation design paradigm, revealing exactly how services should and should not be designed for real-world SOA.

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1. Overview
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 4. Service-Oriented
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6. Service Contracts (Standardization and Design)
 7. Service Coupling (Intra-Service and Consumer Dependencies)
 8. Service Abstraction (Information Hiding and Meta Abstraction Types)
 9. Service Reusability (Commercial and Agnostic Design)
 10. Service Autonomy (Processing Boundaries and Control)
 11. Service Statelessness (State Deferral and Stateless Design)
 12. Service Discoverability (Interpretability and Communication)
 13. Service Composability (Composition Member Design and Complex Compositions)
- PART III: SUPPLEMENTAL
14. Service-Oriented and Object-Oriented: A Comparison of Principles and Concepts
 15. Supporting Practices
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 - C. Principles and Patterns Cross-Reference



Service-Oriented Architecture

Concepts, Technology, and Design

By Thomas Erl

9780131858589 | 792 PAGES |

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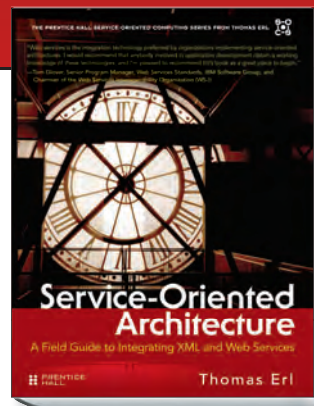
Widely regarded as the definitive “how-to” guide for SOA, this best-selling book presents a comprehensive end-to-end tutorial that provides step-by-step instructions for modeling and designing service-oriented solutions from the ground up.

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.

THIS BOOK'S IN-DEPTH 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
- The use of “In Plain English” sections, which describe complex concepts through non-technical analogies
- A study contrasting past architectures with SOA and reviewing current industry influences
- Project planning and the comparison of different SOA delivery strategies

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



Service-Oriented Architecture

A Field Guide to Integrating XML and Web Services

By Thomas Erl

9780131428980 | 560 PAGES

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This popular reference guide offers expert advice for incorporating XML and Web services technologies within service-oriented integration architectures.

A broad spectrum of immediate and long-term integration challenges are addressed, including various technical and design issues, transition architectures, and strategic migration planning.

- Includes hundreds of individual integration strategies and more than 60 best practices for both XML and Web services technologies
- Provides a clear roadmap for planning a long-term migration toward a standardized service-oriented enterprise
- Explores design issues related to a wide variety of service-oriented integration architectures that integrate XML and Web services into legacy and EAI environments
- Covers both established XML and Web services standards, as well as several increasingly important second-generation (WS-*) Web services specifications

SOA provides a powerful medium for integration, but brings with it new complexities and challenges. This book assists you with the planning, architecture, and implementation of service-oriented environments – efficiently and cost-effectively.

“Web services is the integration technology preferred by organizations implementing service-oriented architectures. I would recommend that anybody involved in application development obtain a working knowledge of these technologies, and I’m pleased to recommend Erl’s book as a great place to begin.”

– TOM GLOVER, Senior Program Manager, Web Services Standards, IBM Software Group, and Chairman of the Web Services Interoperability Organization (WS-I)

PRAISE FOR BOOKS IN THE SERIES

“An absolute pleasure to read...the best SOA book I’ve read... A book I would recommend to all of my colleagues; it provides much insight to the topics often overlooked by most books in this genre... the visuals were fantastic.”

— BRANDON BOHLING,
SOA Architecture and Strategy, Intel Corporation

“There are few references for SOA that give you the nuts and bolts and this one is at the top of the list. Well written and valuable as a reference book to any SOA practitioner.”

— DR. MOHAMAD AFSHAR, Director of Product Management,
Oracle Fusion Middleware, Oracle Corporation

“This book takes a very structured approach at defining the core design principles for SOA, thus allowing the reader to immediately applying them to a project...A ‘must read’ for any architect, designer or developer of service oriented solutions.”

— ANDRE TOST,
Senior Technical Staff Member, IBM Software Group

“Outstanding SOA literature uniquely focused on the fundamental services design with thorough and in-depth study on all practical aspects from design principles to methodologies.”

— ROBIN CHEN, PhD, Google, Inc.

“I recommend this book to any SOA practitioner who wishes to empower themselves in making service design real...gives readers the 360° view into service design...”

— STEPHEN G. BENNETT,
Americas SOA Practice Lead, BEA Systems

“This book does a great job laying out benefits, key ideas and design principles behind successfully adopting service-oriented computing. At the same time, the book openly addresses challenges, risks and trade-offs that are in the way of adopting SOA in the real-world today.”

— CHRISTOPH SCHITTKO,
Senior Architect, Microsoft

“I am very impressed. Comprehensive. Educative. This book helped me to step back and look at the SOA principles from broader perspective. I’d say this is a must-read book for SOA stakeholders.”

— RADOVAN JANECEK,
Director R&D, SOA Center, Hewlett-Packard

ABOUT THE SERIES

Service-oriented computing represents a new generation computing platform that encompasses service-oriented architecture (SOA), the service-orientation design paradigm, and an ever-growing vendor technology marketplace. The enormous benefit potential associated with this platform has sparked a movement that has positioned SOA and service-orientation as the next phase in the evolution of business automation.

The Prentice Hall Service-Oriented Computing Series from Thomas Erl aims to fulfill a critical and growing need within the IT industry for unbiased, practical, and comprehensive guidance and instruction in the areas of SOA, service-orientation, and the expanding technology landscape that is shaping the real-world service-oriented computing platform.

The titles in this series have been authored by top SOA experts from leading SOA organizations and are edited by Thomas Erl, the world’s top-selling SOA author (www.thomaserl.com).

If you are new to service-oriented computing or would like to learn more about the topics covered in these books, visit any of the following resource sites:

- www.soamag.com
- www.whatissoa.com
- www.soaglossary.com
- www.soaspecs.com
- www.soaprinciples.com
- www.soapatterns.com
- www.soapatterns.org

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The books in this series are part of the official curriculum for the SOA Certified Professional program. For more information, visit: www.soaschool.com.

To learn more about the new Cloud Certified Professional program, visit: www.cloudschool.com.

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Visit www.informit.com/onsoa to hear conversations, tips, and insights from leading SOA experts (including authors from this book series) covering a range of topical issues, including service-orientation, service design with REST, SOA design patterns, convergence of SOA and Web 2.0, and more.

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