



From Technologies to Solutions

SOA Patterns with **BizTalk Server 2009**

Implement SOA strategies for BizTalk Server solutions

Richard Seroter

[PACKT]
PUBLISHING

Soa Patterns With Biztalk Server 2009 Richard Seroter

Thomas Erl



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SOA Patterns with BizTalk Server 2009 Richard Seroter, 2009-04-24 Implement SOA strategies for Microsoft BizTalk Server solutions with this book and eBook [Applied Architecture Patterns on the Microsoft Platform](#) Richard Seroter, Ewan Fairweather, Rama Ramani, 2010-09-07 An in depth scenario driven approach to architecting systems using Microsoft technologies with this book and eBook *Pro BizTalk 2009* George Dunphy, Harold Campos, Stephen Kaufman, Peter Kelcey, Sergei Moukhnietski, David Peterson, 2009-10-13 A compendium of best practices and implementation wisdom Pro BizTalk 2009 is a revision of the highly successful and best selling Pro BizTalk 2006 The book has been fully updated to cover developments in BizTalk 2009 You ll find chapters on topics such as developing WCF compliant adapters using the WCF LOB adapter SDK connecting BizTalk to IBM mainframe line of business applications and data using the Host Integration Server adapter and riding the Enterprise Service Bus All other chapters in the book have been updated to reflect developments in BizTalk 2009 Pro BizTalk 2009 is based upon real feedback from BizTalk developers It is written by recognized experts George Dunphy and Sergei Moukhnietski backed by a team of top notch co authors The book is a labor of love in which the authors share their experiences and expertise to teach you the art of creating a BizTalk solution using the right tools from the BizTalk 2009 toolbox Fully updated to cover developments in BizTalk 2009 Focuses on the art of creating a BizTalk solution by helping readers choose the right tool from the BizTalk toolbox for the task at hand Based upon the real life experience of authors with many years of practice implementing BizTalk solutions for large enterprises **SOA Patterns with BizTalk Server 2013 and Microsoft Azure** Richard Seroter, Mark Brimble, Johann Cooper, Colin Dijkgraaf, Mahindra Morar, 2015-06-30 A service oriented architecture SOA is a vendor product or technology independent pattern that enables application components in a network to obtain services from other components You can take advantage of the Microsoft Integration Stack to implement your SOA strategy smoothly and cost effectively SOA Patterns with BizTalk Server 2013 and Microsoft Azure Second Edition provides an overview of Microsoft Integration technologies including BizTalk Server and demonstrates how you can leverage these technologies to implement a successful SOA Starting with an introduction to BizTalk Server and WCF you will learn about RESTful services JSON and Azure Service Bus and how to apply SOA principles to creating BizTalk solutions Moving on you will learn how to implement versioning in endpoints orchestrations and schemas Finally you will discover the usage of the ESB Toolkit and extend the connectivity of BizTalk Server applications to Microsoft Azure **Microsoft Biztalk 2010** Kent Weare, Richard Seroter, 2011-07-18 A practical guide to integrating Line of Business systems with BizTalk Server 2010 **SOA Patterns with BizTalk Server 2009** Richard Seroter, 2009 [Soa Patterns with BizTalk Server 2013 - Second Edition](#) Johann Cooper, Mark Brimble, Richard Seroter, 2015-06-30 If you are a developer who has been tasked with building service oriented BizTalk Server solutions this book is for you It will help you to envision an enterprise solution and implement the software blueprint *SOA and ESB Architecture with BizTalk* Robert V. Hogg, Ewan

Fairweather,2008-01-11 This Wrox Blox explores Service Oriented Architecture and the Enterprise Service Bus focusing on how it can be implemented using Microsoft BizTalk Server It explains the need for SOA Architecture in an enterprise business and looks at the key Business and IT Drivers in business how they can interact and where there are conflicts that SOA can help resolve Specifically the author discusses Microsoft ESB Guidance and how by using BizTalk 2006 ESB implementation can provide a solid platform for SOA development management across the IT and Business Space with the Governance and tools provided in the ESB Toolkit pointers to online resources including guides on installing and deploying ESB and how to avoid common SOA pitfalls The target audience for this Wrox Blox is IT Managers Business Managers Architects Developers and Business Analysts who want to find architectural guidance information on Service Oriented Architecture BizTalk and Enterprise Service Bus Table of Contents Business Drivers 1 Example of a Business Driver in a Financial Organization 2 IT Drivers 3 How Traditional Business and IT Interact 4 Quality of Service The ITs 4 Solving the Business and IT Communication Problem 5 Message Architecture Changes 5 Point to Point 6 Hub and Spoke 6 Message Bus 7 Introducing SOA 9 Foundation 11 SOA Core Services 11 Messaging 11 Application 11 Example of an SOA Application 11 SOA Integration 12 SOA Composite Application 12 BizTalk Overview 13 ESB Architecture 14 Microsoft ESB Guidance 15 Core ESB Features 16 On Ramps 17 Off Ramps 17 Itinerary Services 17 BizTalk Server 17 Web Services 18 Exception Management 18 Management Console 18 Implementing ESB in Your Organization 23 Governance 24 Succeeding with SOA 24 SOA Advantages 24 SOA Anti Patterns 25 Summary 25 Further Resources 26 About Robert Hogg 27 Usage Rights for Wiley Wrox Blox Any Wrox Blox you purchase from this site will come with certain restrictions that allow Wiley to protect the copyrights of its products After you purchase and download this title you Are entitled to three downloads Are entitled to make a backup copy of the file for your own use Are entitled to print the Wrox Blox for your own use Are entitled to make annotations and comments in the Wrox Blox file for your own use May not lend sell or give the Wrox Blox to another user May not place the Wrox Blox file on a network or any file sharing service for use by anyone other than yourself or allow anyone other than yourself to access it If you have any questions about these restrictions you may contact Customer Care at 877 762 2974 8 a m 5 p m EST Monday Friday If you have any issues related to Technical Support please contact us at 800 762 2974 United States only or 317 572 3994 International 8 a m 8 p m EST Monday Friday

SOA with .NET and Windows Azure Thomas Erl,David Chou,John deVadoss,Nitin Gandhi,Hanu Kommalapati,Brian Loesgen,Christoph Schittko,Herbjorn Wilhelmsen,M Williams,Scott Golightly,Darryl Hogan,Jeff King,Scott Seely,2010-05-27 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 The authors provide comprehensive documentation of on premise and cloud based modern service technology advancements within the Microsoft

platform and further show how these technologies have increased the potential for applying and realizing service orientation practices and goals Specifically the book delves into Microsoft enterprise technologies such as Windows Communication Foundation WCF Windows Azure Windows Workflow Foundation WF Windows Azure AppFabric BizTalk Server Windows Presentation Foundation WPF as well as industry service mediums including WS and REST and many related service industry standards and technologies The book steps through common SOA design patterns and service orientation principles along with numerous code level examples that further detail various technology architectures and implementations Topic Areas This book covers the following primary topics Microsoft Service Technologies Microsoft Enterprise Technologies On Premise Cloud Based Service Topics Industry Service Technologies Mediums Service Oriented Technology Architectural Models Service Orientation Design Paradigm Service Orientation Design Principles SOA Design Patterns About the Web Sites This book series is further supported by a series of resources sites including [www soabooks com](http://www.soabooks.com) [www soaspecs com](http://www.soaspecs.com) [www soamag com](http://www.soamag.com) [www serviceorientation com](http://www.serviceorientation.com) [www soapatterns org](http://www.soapatterns.org) [www soapprinciples com](http://www.soapprinciples.com) [www whatissoa com](http://www.whatissoa.com) *SOA Patterns* Arnon Rotem-Gal-Oz, 2012-09-11 Summary SOA Patterns provides architectural guidance through patterns and antipatterns It shows you how to build real SOA services that feature flexibility availability and scalability Through an extensive set of patterns this book identifies the major SOA pressure points and provides reusable techniques to address them Each pattern pairs the classic problem solution format with a unique technology map showing where specific solutions fit into the general pattern About the Technology The idea of service oriented architecture is an easy one to grasp and yet developers and enterprise architects often struggle with implementation issues Here are some of them How to get high availability and high performance How to know a service has failed How to create reports when data is scattered within multiple services How to make loose coupling looser How to solve authentication and authorization for service consumers How to integrate SOA and the UI About the Book SOA Patterns provides detailed technology neutral solutions to these challenges and many others using plain language You ll understand the design patterns that promote and enforce flexibility availability and scalability Each of the 26 patterns uses the classic problem solution format and a unique technology map to show where specific solutions fit into the general pattern The book is written for working developers and architects building services and service oriented solutions Knowledge of Java or C is helpful but not required Purchase of the print book comes with an offer of a free PDF ePub and Kindle eBook from Manning Also available is all code from the book Table of Contents PART 1 SOA PATTERNS Solving SOA pains with patterns Foundation structural patterns Patterns for performance scalability and availability Security and manageability patterns Message exchange patterns Service consumer patterns Service integration patterns PART 2 SOA IN THE REAL WORLD Service antipatterns Putting it all together a case study SOA vs the world SOA Design Patterns Thomas Erl, 2017 SOA Design Patterns is an important contribution to the literature and practice of building and delivering quality software intensive systems Grady Booch IBM Fellow With the continued explosion of services and the increased rate

of adoption of SOA through the market there is a critical need for comprehensive actionable guidance that provides the fastest possible time to results Microsoft is honored to contribute to the SOA Design Patterns book and to continue working with the community to realize the value of Real World SOA Steven Martin Senior Director Developer Platform Product Management Microsoft SOA Design Patterns provides the proper guidance with the right level of abstraction to be adapted to each organization's needs and Oracle is pleased to have contributed to the patterns contained in this book Dr Mohamad Afshar Director of Product Management Oracle Fusion Middleware Oracle Red Hat is pleased to be involved in the SOA Design Patterns book and contribute important SOA design patterns to the community that we and our customers have used within our own SOA platforms I am sure this will be a great resource for future SOA practitioners Pierre Fricke Director Product Line Management JBoss SOA Platform Red Hat A wealth of proven reusable SOA design patterns clearly explained and illustrated with examples An invaluable resource for all those involved in the design of service oriented solutions Phil Thomas Consulting IT Specialist IBM Software Group This obligatory almanac of SOA design patterns will become the foundation on which many organizations will build their successful SOA solutions It will allow organizations to build their own focused SOA design patterns catalog in an expedited fashion knowing that it contains the wealth and expertise of proven SOA best practices Stephen Bennett Director Technology Business Unit Oracle Corporation The technical differences between service orientation and object orientation are subtle enough to confuse even the most advanced developers Thomas Erl's book provides a great service by clearly articulating SOA design patterns and differentiating them from similar OO design patterns Anne Thomas Manes VP rather they form a network of forces and constraints that guide the practitioner to consider the task at hand in the context of its inter dependencies Second the pattern sequence diagrams and accompanying notes provide a useful framework for planning and executing the many activities that comprise an SOA engagement Ian Robinson Principal Technology Consultant ThoughtWorks Successful implementation of SOA principles requires a shift in focus from software system means or the way capabilities are developed to the desired end results or real world effects required to satisfy organizational business processes In SOA Design Patterns Thomas Erl provides service architects with a broad palette of reusable service patterns that describe service capabilities that can cut across many SOA applications Service architects taking advantage of these patterns will save a great deal of time describing and assembling services to deliver the real world effects they need to meet their organization's specific business objectives Chuck Georgo Public Safety and National Security Architect In IT we have increasingly come to see the value of having catalogs of good solution patterns in programming and systems design With this book Thomas Erl brings a comprehensive set of patterns to bear on the world of SOA These patterns enable easily communicated reusable and effective solutions allowing us to more rapidly design and build out the large complicated and interoperable enterprise SOAs into which our IT environments are evolving Al Gough Business Systems Solutions CTO CACI International Inc This book provides a comprehensive and pragmatic review of design

issues in service centric design development and evolution The Web site related to this book SOAPatterns org is a wonderful platform and gives the opportunity for the software community to maintain this catalogue Veronica Gacitua Decar Dublin City University Erl s SOA Design Patterns is for the IT decision maker determined to make smart architecture design choices smart investments and long term enterprise impact For those IT professionals committed to service orientation as a value added design and implementation option Patterns offers a credible repeatable approach to engineering an adaptable business enterprise This is a must read for all IT architect professionals Larry Gloss VP and General Manager Information Manufacturing LLC These SOA patterns define encompass and comprise a complete repertoire of best practices for developing a world class IT SOA portfolio for the enterprise and its organizational units through to service and schema analysis and design After many years as an architect on many SOA projects I strongly recommend this book be on the shelf of every analyst and technical member of any SOA effort right next to the SOA standards and guidelines it outlines and elucidates the need for Our SOA governance standards draw heavily from this work and others from this series Robert John Hathaway III Enterprise Software Architect SOA Object Systems A wise man once told me that wisdom isn t all about knowledge and intelligence it is just as much about asking questions Asking questions is the true mark of wisdom and during the writing of the SOA Design Patterns book Thomas Erl has shown his real qualities The community effort behind this book is huge meaning that Thomas has had access to the knowledge and experience of a large group of accomplished practitioners The result speaks for itself This book is packed with proven solutions to recurring problems and the documented pros and cons of each solution have been verified by persons with true experience This book could give SOA initiatives of any scale a real boost Herbj rn Wilhelmsen Architect and Senior Consultant Objectware This book is an absolute milestone in SOA literature For the first time we are provided with a practical guide on how the principle centric description of service orientation from a vendor agnostic viewpoint is actually made to work in a language based on patterns This book makes you talk SOA There are very few who understand SOA like Thomas Erl does he actually put s it all together Brian Lokhorst Solution Architect Dutch Tax Office Service oriented architecture is all about best practices we have learned since IT s existence This book takes all those best practices and bundles them into a nice pattern catalogue It provides a really excellent approach as patterns are not just documented but are provided with application scenarios through case studies which fills the gap between theory and practice Shakti Sharma Senior Enterprise Architect Sysco Corp An excellent and important book on solving problems in SOA with a solid structure Has the potential of being among the major influential books Peter Chang Lawrence Technical University SOA Design Patterns presents a vast amount of knowledge about how to successfully implement SOA within an organization The information is clear concise and most importantly legitimate Peter B Woodhull President and Principal Architect Modus21 SOA Design Patterns offers real insights into everyday problems that one will encounter when investing in services oriented architecture It provides a number of problem descriptions and offers

strategies for dealing with these problems SOA design patterns highlights more than just the technical problems and solutions Common organizational issues that can hinder progress towards achieving SOA migration are explained along with potential approaches for dealing with these real world challenges Once again Thomas Erl provides in depth coverage of SOA terminology and helps the reader better understand and appreciate the complexities of migrating to an SOA environment David Michalowicz Air and Space Operations Center Modernization Team Lead MITRE Corporation This is a long overdue serious comprehensive and well presented catalog of SOA design patterns This will be required reading and reference for all our SOA engineers and architects The best of the series so far The book works in two ways as a primer in SOA design and architecture it can easily be read front to back to get an overview of most of the key design issues you will encounter and as a reference catalog of design techniques that can be referred to again and again Wendell Ocasio Architecture Consultant DoD Military Health Systems Agilex Technologies Thomas has once again provided the SOA practitioner with a phenomenal collection of knowledge This is a reference that I will come back to time and time again as I move forward in SOA design efforts What I liked most about this book is its vendor agnostic approach to SOA design patterns This approach really presents the reader with an understanding of why or why not to implement a pattern group patterns or use compound patterns rather than giving them a marketing spiel on why one implementation of a pattern is better than another for example why one ESB is better than another I think as SOA adoption continues to advance the ability for architects to understand when and why to apply specific patterns will be a driving factor in the overall success and evolution of SOA Additionally I believe that this book provides the consumer with the understanding required to chose which vendor s SOA products are right for their specific needs Bryan Brew SOA Consultant Booz Allen Hamilton A must have for every SOA practitioner Richard Van Schelven Principal Engineer Ericsson This book is a long expected successor to the books on object oriented design patterns and integration patterns It is a great reference book that clearly and thoroughly describes design patterns for SOA A great read for architects who are facing the challenge of transforming their enterprise into a service oriented enterprise Linda Terlouw Solution Architect Ordina The maturation of Service Orientation has given the industry time to absorb the best practices of service development Thomas Erl has amassed this collective wisdom in SOA Design Patterns an absolutely indispensable addition to any Service Oriented bookshelf Kevin P Davis Ph D The problem with most texts on SOA is one of specificity Architects responsible for SOA implementation in most organizations have little time for abstract theories on the subject but are hungry for concrete details that they can relate to the real problems they face in their environment SOA Design Patterns is critical reading for anyone with service design responsibilities Not only does the text provide the normal pattern templates but each pattern is applied in detail against a background case study to provide exceptionally meaningful context to the information The graphic visualizations of the problems and pattern solutions are excellent supplementary companions to the explanatory text This book will greatly stretch the knowledge of the reader as

much for raising and addressing issues that may have never occurred to the reader as it does in treating those problems that are in more common occurrence. The real beauty of this book is in its plain English prose. Unlike so many technical reference books, one does not find themselves re-reading sections multiple times trying to discern the intent of the author. This is also not a reference that will sit gathering dust on a shelf after one or two perusings. Practitioners will find themselves returning over and over to utilize the knowledge in their projects. This is as close as you'll come to having a service design expert sitting over your shoulder.

James Kinneavy, Principal Software Architect, University of California: As the industry converges on SOA patterns, Erl provides an outstanding reference guide to composition and integration and yet another distinctive contribution to the SOA practice.

Steve Birkel, Chief IT Technical Architect, Intel Corp: With *SOA Design Patterns*, Thomas Erl adds an indispensable SOA reference volume to the technologists' library. Replete with to the point examples, it will be a helpful aid to any IT organization.

Ed Dodds, Strategist Systems Architect, Convergence: Again, Thomas Erl has written an indispensable guide to SOA. Building on his prior successes, his patterns go into even more detail. Therefore, this book is not only helpful to the SOA beginner but also provides new insight and ideas to professionals.

Philipp Offermann, Research Scientist, Technische Universität Berlin, Germany: *SOA Design Patterns* is an extraordinary contribution to SOA best practices. Once again, Thomas has created an indispensable resource for any person or organization interested in or actively engaged in the practice of Service Oriented Architecture.

Using case studies based on three very different business models, Thomas guides the reader through the process of selecting appropriate implementation patterns to ensure a flexible, well-performing and secure SOA ecosystem.

Victor Brown, Managing Partner and Principal Consultant, Cypress Management Group Corporation: 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. More than three years in development and subjected to numerous industry reviews, the 85 patterns in this full color book provide the most successful and proven design techniques to overcoming the most common and critical problems to achieving modern day SOA. Through numerous examples, individually documented pattern profiles and over 400 color illustrations, this book provides in-depth coverage of Patterns for the design, implementation and governance of service inventories, collections of services representing individual service portfolios that can be independently modeled, designed and evolved. Patterns specific to service level architecture which pertain to a wide range of design areas including contract design, security, legacy encapsulation, reliability, scalability and a variety of implementation and governance issues. Service composition patterns that address the many aspects associated with combining services into aggregate, distributed solutions including topics such as runtime messaging and message design, inter-service security controls and transformation. Compound patterns such as Enterprise Service Bus and Orchestration and recommended pattern application sequences that establish foundational processes. The book begins by establishing SOA types that are referenced throughout the patterns and then form the basis of a final chapter that discusses the architectural

impact of service oriented computing in general These chapters bookend the pattern catalog to provide a clear link between SOA design patterns the strategic goals of service oriented computing different SOA types and the service orientation design paradigm This book series is further supported by a series of resources sites including soabooks.com soaspecs.com soapatterns.org soamag.com and soaposters.com

The Top Books of the Year Soa Patterns With Biztalk Server 2009 Richard Seroter The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have enthralled audiences this year. Soa Patterns With Biztalk Server 2009 Richard Seroter : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Soa Patterns With Biztalk Server 2009 Richard Seroter : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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