Enterprise Architectures and Integration Using SOA

Concepts, Methodology and a Toolset

Enterprise Business Processes	**Business Architecture**
Enterprise Applications	**Application Architecture**
Enterprise Platform Services	
Enterprise Network Services	**Technology Architecture**

Service Oriented Architecture (SOA)

Integrated Architecture

Amjad Umar, Ph.D.

Enterprise Architectures And Integration Using Soa Paperback By Umar Amjad

Dirk Krafzig

Enterprise Architectures And Integration Using Soa Paperback By Umar Amjad:

Enterprise Architectures and Integration Using SOA Amjad Umar,2010-01 Mobile computing and wireless communications are transforming the way we live conduct business and communicate with each other Instead of concentrating on one aspect of this broad field this comprehensive book covers the management as well as technical aspects of wireless networks the applications that are being built on top of them the platforms used to build these applications and the security architecture and management issues This book is subdivided into three parts The first part concentrates on business and applications and consists of four chapters that cover topics such as mobile business mobile commerce wireless Internet Mobile IP and mobile computing platforms such as WAP I Mode Brew J2ME and Voice XML The second part examines wireless networks with a practical analysis of 802 11 LANs Bluetooth UWB wireless sensor networks cellular networks wireless local loops satellites deep space communications and FSO The last part gives a synthesis by discussing wireless security architectures integration management and support issues Numerous case studies and examples are included to illustrate the key points This classroom tested book is highly suitable for wireless communications courses in IT IS programs Complete instructor manuals are available See the author site www amajdumar com for more details *SOA Source Book* The Open Group,2020-06-11 Software services are established as a programming concept but their impact on the overall architecture of enterprise IT and business operations is not well understood This has led to problems in deploying SOA and some disillusionment The SOA Source Book adds to this a collection of reference material for SOA It is an invaluable resource for enterprise architects working with SOA The SOA Source Book will help enterprise architects to use SOA effectively It explains What SOA is How to evaluate SOA features in business terms How to model SOA How to use The Open Group Architecture Framework TOGAF for SOA SOA governance This book explains how TOGAF can help to make an Enterprise Architecture Enterprise Architecture is an approach that can help management to understand this growing complexity **Enterprise Service Oriented Architectures** James McGovern,Oliver Sims,Ashish Jain,Mark Little,2006-07-10 Conventional wisdom of the software stack approach to building applications may no longer be relevant Enterprises are pursuing new ways of organizing systems and processes to become service oriented and event driven Leveraging existing infrastructural investments is a critical aspect to the success of companies both large and small Enterprises have to adapt their systems to support frequent technological changes mergers and acquisitions Furthermore in a growing global market these systems are being called upon to be used by external business partners Technology is often difficult costly and complex and without modern approaches can prevent the enterprise from becoming agile Enterprise Service Oriented Architectures helps readers solve this challenge in making different applications communicate in a loosely coupled manner This classic handbook leverages the experiences of thought leaders functioning in multiple industry verticals and provides a wealth of knowledge for creating the agile enterprise In this book you will learn How to balance the delivery

of immediate business value while creating long term strategic capability Fundamental principles of a service oriented architecture find bind and execute The four aspects of SOA Production Consumption Management and Provisioning How to recognize critical success factors to implementing enterprise SOAs Architectural importance of service registries interfaces and contracts Why improper service decomposition can hurt you later rather than sooner How application design and integration practices change as architects seek to implement the agile enterprise About the Authors James McGovern is an enterprise architect for The Hartford He is an industry thought leader and co author of the bestselling book A Practical Guideto Enterprise Architecture Oliver Sims is a recognized leader in the architecture design and implementation of service oriented and component based enterprise systems He was a founding member of the OMG Architecture Board He was co author of the groundbreaking book Business Component Factory Ashish Jain is a Principal Architect with Ping Identity Corporation a leading provider of solutions for identity federation Prior to joining Ping Identity he worked with BEA Systems where his role was to assist BEA customers in designing and implementing their e business strategies using solutions based on J2EE He holds several industry certifications from SUN and BEA and is also a board member for the Denver BEA User group Mark Little is Director of Standards and SOA Manager for JBoss Inc Prior to this he was Chief Architect for Arjuna Technologies Ltd and a Distinguished Engineer at Hewlett Packard As well as being an active member of the OMG JCP OASIS and W3C he is an author on many SOA and Web Services standards He also led the development of the world s first standards compliant Web Services Transaction product **Integrating SOA and Web Services** N. Sudha Bhuvaneswari,S. Sujatha,2011-06-30 This book highlights how to integrate and realize Service Oriented Architecture with web services which is one of the emerging technologies in IT It also focuses on the latest technologies such as Metadata Management Security issues Quality of Service and its commercialization A chapter is also devoted to the study of Emerging standards and development tools for Enterprise Application Integration Most enterprises have made extensive investments in system resources over the course of many years Such enterprises have an enormous amount of data stored in legacy enterprise information systems EIS so it is not practical to discard existing systems It is more cost effective to evolve and enhance EIS This could be done with the help of SOA realizing with web services which is an emerging field in Information technology SOA is usually realized through web services Web services specifications may add to the confusion of how to best to utilize SOA to solve business problems In order for a smooth transition to SOA using an architectural style that helps in realizing web services through SOA The book concentrates on this architecture realization and integration of SOA with web services It consists of 12 chapters and is recommended for all postgraduate Computer Science Students Enterprise Soa Dirk Krafzig,2004 By delivering SAP s next generation applications based on a Services Oriented Architecture SAP is at the forefront of making Web services work for the enterprise The Enterprise Services Architecture enables unprecedented flexibility in business process deployment allowing companies to execute and innovate end to end processes across

departments and companies with minimum disruption to other systems and existing IT investments This strategy comes to life with SAP NetWeaver which is the technological foundation of the Enterprise Services Architecture It provides easy integration of people information and systems in heterogeneous IT environments and provides a future proof application platform Enterprise SOA provides readers with the architectural blueprints and SOA driven project management strategies that are required to successfully adopt SOA on an enterprise level Dr Peter Graf SVP Product Marketing SAP The SOA principles outlined in this book enable enterprises to leverage robust and proven middleware platforms including CORBA to build flexible and business oriented service architectures The authors also clearly describe the right strategies for using Model Driven Architecture MDA to manage SOA Service Repositories in a platform independent way enabling enterprises to better address the problem of heterogeneity at many levels The Object Management Group was created just to address this central problem of integration in the face of constantly changing heterogeneity and platform churn so I strongly recommend this book for the bookshelf of every enterprise architect and developer Richard Mark Soley Ph D chairman and chief executive officer Object Management Group Inc Enterprise SOA provides strategies that help large enterprises to increase the agility of their IT systems one of the most pressing issues of contemporary IT Covering both a business and architectural view these strategies aim to promote the implementation of an IT infrastructure that can serve as a base for the development of truly flexible business processes This book covers its subject with great profoundness based on real world evidence It is in the interest of everybody involved with software architecture particularly for anybody who intends to establish a Service Oriented Architecture to read this book Dr Helge He director Business Process Management IDS Scheer AG The SOA principles described in this book are the foundation on whi   Event-Driven Architecture Hugh Taylor,Angela Yochem,Les Phillips,Frank Martinez,2009-02-17 Improving Business Agility with EDA Going beyond SOA enterprises can gain even greater agility by implementing event driven architectures EDAs that automatically detect and react to significant business events However EDA planning and deployment is complex and even experienced SOA architects and developers need expert guidance In Event Driven Architecture four leading IT innovators present both the theory of EDA and practical step by step guidance to implementing it successfully The authors first establish a thorough and workable definition of EDA and explore how EDA can help solve many of today s most difficult business and IT challenges You ll learn how EDAs work what they can do today and what they might be able to do as they mature You ll learn how to determine whether an EDA approach makes sense in your environment and how to overcome the difficult interoperability and integration issues associated with successful deployment Finally the authors present chapter length case studies demonstrating how both full and partial EDA implementations can deliver exceptional business value Coverage includes How SOA and Web services can power event driven architectures The role of SOA infrastructure governance and security in EDA environments EDA core components event consumers and producers message backbones Web service transport and more EDA patterns including simple event

processing event stream processing and complex event processing Designing flexible stateless events that can respond to unpredictable customers suppliers and business partners Addressing technical and business challenges such as project management and communication EDA at work real world applications across multiple verticals Hugh Taylor is a social software evangelist for IBM Lotus Software He coauthored Understanding Enterprise SOA and has written extensively on Web services and SOA He holds an MBA from Harvard Business School Angela Yochem is an executive in a multinational technology company and is a recognized thought leader in architecture and large scale technology management Les Phillips VP enterprise architecture at SunTrust Banks Inc is responsible for defining the strategic and business IT foundation for many areas of the enterprise Frank Martinez EVP product strategy at SOA Software is a recognized expert on distributed enterprise application and infrastructure platforms He has served as senior operating executive for several venture backed firms and helped build Intershop Communications into a multibillion dollar public company   *Achieving Service-Oriented Architecture* Rick Sweeney,2010-04-20 A complete comprehensive methodology and framework for adopting and managing a successful service oriented architecture environment Achieving Service Oriented Architecture helps to set up an SOA Architecture Practice defining the policies procedures and standards that apply not just to IT developers but to the entire corporation as it relates to business applications Why a new architectural approach is necessary for your business to achieve all the value SOA has to offer Focuses on setting up an enterprise architecture practice for service oriented architecture Discusses the implementation and governance processes for SOA Defines and describes an overall architectural framework for managing SOA assets at an enterprise architecture level Shows how to set up and run an SOA Enterprise Architecture Practice using the methodology and framework presented Defining how an Architecture Practice can transform itself and your corporation to maximize the benefits of the SOA approach Achieving Service Oriented Architecture provides a pragmatic enterprise architecture approach and framework for implementing and managing service oriented architecture from a business organization and business practices perspective Note CD ROM DVD and other supplementary materials are not included as part of eBook file   **Open Source SOA** Jeff Davis,2009-04-30 You can build a world class SOA infrastructure entirely using popular andmature open source applications Unfortunately the technical documentationfor most open source projects focuses on a specific product the big SOA picture You re left to your own devices to figure out how to cobble together a fullsolution from the various bits In other words unless you already know howMule and Tuscany work with jBPM you re stuck Open Source SOA shows readers how to build an entire SOA application usingopen source technologies It shows readers how to apply key ideas like EnterpriseService Bus ESB design and Business Process Management BPM and learnthe tools and techniques to implement them effectively To pull everything together the author describes real life case studies from hisown work to tie together all the principles and practices These hard to find casestudies are pure gold for the reader as most developers keep these trade secretsto themselves 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   *Cloud Computing and SOA Convergence in Your Enterprise* David S. Linthicum,2009-09-29 Massive disruptive change is coming to IT as software as a service SaaS SOA mashups Web 2 0 and cloud computing truly come of age Now one of the world s leading IT innovators explains what it all means coherently thoroughly and authoritatively Writing for IT executives architects and developers alike world renowned expert David S Linthicum explains why the days of managing IT organizations as private fortresses will rapidly disappear as IT inevitably becomes a global community He demonstrates how to run IT when critical elements of customer product and business data and processes extend far beyond the firewall and how to use all that information to deliver real time answers about everything from an individual customer s credit to the location of a specific cargo container Cloud Computing and SOA Convergence in Your Enterprise offers a clear eyed assessment of the challenges associated with this new world and offers a step by step program for getting there with maximum return on investment and minimum risk Using multiple examples Linthicum Reviews the powerful cost value and risk related drivers behind the move to cloud computing and explains why the shift will accelerate Explains the technical underpinnings supporting technologies and best practice methods you ll need to make the transition Helps you objectively assess the promise of cloud computing and SOA for your organization quantify value and make the business case Walks you through evaluating your existing IT infrastructure and finding your most cost effective safest path to the cloud Shows how to choose the right candidate data services and processes for your cloud computing initiatives Guides you through building disruptive infrastructure and next generation process platforms Helps you bring effective high value governance to the clouds If you re ready to begin driving real competitive advantage from cloud computing this book is the start to finish roadmap you need to make it happen

   SOA-Based Enterprise Integration: A Step-by-Step Guide to Services-based Application Waseem Roshen,2009-05-21 Foreword by Ray Harishankar IBM Fellow There are many books on the market on the topic of SOA and SOA s business and technology value This book focuses on one of the key technical values of SOA and does an excellent job of describing SOA based application integration by clarifying the relationship and patterns of SOA with other integration technologies in a distributed computing environment Sandra Carter IBM Vice President for SOA BPM and WebSphere Marketing Services Oriented Architectures present many challenges today in the integration of existing systems and new systems along with many times old legacy mainframe applications This book successfully addresses many of the complexities we see in the integration of SOA and mainframe legacy applications presenting options and approaches to integrate the applications with the rest of the enterprise The author takes a clearly defined pattern based approach discussing the advantages tools and methods Readers will benefit from the insights in this book whether they play the architect role or a developer role on a SOA project Sue Miller Sylvia IBM Fellow and Application Development Service Area Leader   **Service-oriented Architecture** Guido Schmutz,Daniel Liebhart,Peter Welkenbach,2010 A theoretical guide this book provides detailed and structured

explanations and visualizations of the Trividas Integration Architecture Blueprint showing you the strategy to implement your own integration projects It draws on real world integrations at an architectural level and explores both product neutral and specific integration scenarios If you are an IT architect or manager who is responsible for any aspect of operating integration solutions and you want to learn how to implement integration architectures in practice with the help of the Trivadis Integration Architecture Blueprint then this book is for you A comprehensive understanding of SOA is required though previous knowledge of the Trivadis Blueprint is not necessary Less experienced specialists who have not yet dealt with integration will benefit greatly from this book by first gaining knowledge of concepts and terminology used in the context of integration architecture while those already familiar with such expertise can move straight to discovering the base technologies associated with implementing solutions based on the Blueprint and getting to grips with the Blueprint s structure itself If you want to assess the solutions from different vendors and ultimately achieve comprehensive SOA integration results using the Trivadis Integration Architecture Blueprint then this book is ideal for you   Service-oriented Architecture for Enterprise Applications Shankar Kambhampaty,2008 Market_Desc Students Software Engineers Designers Architects Business Analysts and Consultants Project Program Managers and IT Consultants CXOs Special Features First book that focuses on architecture design and development of Enterprise applications based on Service Oriented Architecture Caters to the needs of students who need to understand the concepts of SOA architects designers and developers who build SOA based enterprise applications and CXOs and Project managers who make decisions on undertaking SOA projects Includes detailed description and code to enable architects designers and developers to build SOA applications on Java and NET platforms SOA is one of key areas on which IT services product and end user companies will be building substantial capability atleast until 2011 This book enables project teams in these companies to use it as a text book for their training programs on SOA About The Book Service Oriented Architecture is a book that emphasizes on architecture design and development of enterprise applications based on SOA The book provides detailed information on many dimensions of SOA reuse agility and integration that can be put to immediate use for creating transformational impact It also offers a comprehensive and structured set of techniques for custom built service oriented enterprise applications that can be readily applied by system integration companies and end user organizations to address customer needs The book equips you with both concepts and technology detail in addressing the IT challenges faced by organizations on their business transformation journey with SOA This is the most sought after book by students who need to have an understanding of the concepts of SOA architects designers and developers who build SOA based enterprise applications and CXOs and Project managers who make decisions on undertaking SOA projects   *Service-Oriented Architecture* Eric A. Marks,Michael Bell,2008-11-03 Praise for Service Oriented Architecture This book provides a superb overview of the SOA topic Marks and Bell provide practical guidance across the entire SOA life cycle from business imperatives and motivations to the post deployment business and

technical metrics to consider With this book Marks and Bell demonstrate a unique ability to take the complex dynamics of SOA and through an eloquent set of metaphors models and principles provide an understandable and insightful how to manual for both technical and business executives This will become a required handbook for any organization implementing SOA Dan Bertrand Enterprise Technology Officer EDS Fellow EDS Corporation A fundamental breakthrough in the business and technology perspectives of SOA this book belongs in every software developer architect and IT executive library Marks and Bell demonstrate a creative and practical approach to building complex service oriented systems I especially liked the hands on perspective brought to multiple aspects of SOA A must have guide in the technology turbulence of the future Ariel Aloni Chief Technology Officer SunGard Data Management Solutions This outstanding text gets straight to the heart of the matter cutting through the hyperbole and discussing how to drive real business value through SOA It will certainly impact my behavior our governance models and subsequently the successful business outcomes we derive as we continue to embrace SOA A must read for battle scarred SOA veterans and fledgling architects alike Christopher Crowhurst Vice President and Chief Architect Thomson Learning Too often SOA has been perceived as all about the technology standards technology stacks operational monitoring and the like In this book Marks and Bell expand beyond the technology to provide a refreshing business driven perspective to SOA connecting the dots between business requirements architecture and development and operations and overlaying these perspectives with tried and true governance techniques to keep SOA initiatives on track A must read for those leading the charge to adopt SOA within their enterprise Brent Carlson Chief Technology Officer LogicLibrary and coauthor of San Francisco Design Patterns Blueprints for Business Software Marks and Bell have captured a wealth of practical experience and lessons learned in what has become the hottest topic in software development In this book they explain in detail what works and what does not from procedural issues to technical challenges This book is an invaluable reference for organizations seeking the benefits of SOAs Dr Jeffrey S Poulin System Architect Lockheed Martin and author of Measuring Software Reuse Principles Practices and Economic Models One of the last things companies often consider when implementing a business solution such as SOA is the impact on people Marks and Bell provide an in depth look at what has to change from a process standpoint to make any SOA implementation a success A great read for those considering to embark on an enterprise SOA and looking for the right mix of people process and products Alan Himler Vice President of Product Management and Marketing LogicLibrary SOA is a complex topic and a complex organizational goal Service Oriented Architecture A Planning and Implementation Guide for Business and Technology shows you how to plan implement and achieve SOA value through its prescriptive approach joining the business and strategic perspective to the technical and architectural perspective Applicable to all industries technology platforms and operating environments this innovative book provides you with the essential strategies to drive greater value from your SOA and realize your business goals   SOA Principles of Service Design (paperback) Thomas Erl,2016-12-06 This book could be described as an

encyclopedia of service design Erl leaves nothing to chance Indispensable Steve Birkel Chief IT Technical Architect Intel Corp 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 This book is a milestone in SOA literature For the first time we are provided with a practical guide on defining service characteristics and service design principles for SOA from a vendor agnostic viewpoint It s a great reference for SOA discovery adoptions and implementation projects Canyang Kevin Liu Principal Enterprise Architect SAP Americas Inc I liked this book It contains extremely important material for those who need to design services Farzin Yashar IBM SOA Advanced Technologies 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 It moves away from ivory tower views of service orientation but still lays out a strong vision for SOA and outlines the changes necessary to realize the full potential Christoph Schittko Senior Architect Microsoft 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 and gives SOA practitioners the depth and understanding needed into the principles of SOA to assist in the design of a mature and successful SOA program Stephen G Bennett Americas SOA Practice Lead BEA Systems SOA projects are most successful when they are based on a solid technical foundation Well accepted and established design principles are part of this foundation 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 Each principle is formally introduced and explained and examples are given for how to apply it to a real design problem A must read for any architect designer or developer of service oriented solutions Andre Tost Senior Technical Staff Member IBM Software Group 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 A thorough examination of the considerations of service design Both seasoned SOA practitioners and those endeavoring to realize services can benefit from reading this book Bill Draven Enterprise Architect Intel Corporation There are very few who understand SOA like Thomas Erl does The principle centric description of service orientation from Thomas canonizes the underpinnings of this important paradigm shift in creating agile and reusable software capabilities The principles so eloquently explained leave little room for any ambiguity attached to the greater purpose of SOA Most organizations today are creating services in a bottoms up approach realizing composition and reuse organically The time is ripe for a book like this that prepares architects for a principle centric approach to SOA Hanu Kommalapati Architect Microsoft Corporation 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 This book provides

a systematic approach for SOA adoption essential for both IT management and professionals Robin Chen PhD Google Inc Thomas Erl s books are always densely filled with information that s well structured This book is especially insightful for Enterprise Architects because it provide s great context and practical examples Part 1 of the book alone is worth getting the book for Markus Zirn Senior Director Product Management Oracle Fusion Middleware Oracle Corporation A very clear discussion of the subject matter Provides a good structure that facilitates understanding and readily highlights key points Kareem Yusuf Director of SOA Strategy and Planning IBM Software Group 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 it covers a wide range of issues in enough detail to be a valuable asset to anyone considering designing or using SOA based technologies Mark Little Director of Standards Red Hat This book communicates complex concepts in a clear and concise manner Examples and illustrations are used very effectively Darryl Hogan Senior Architect Microsoft A work of genius Offers the most comprehensive and thorough explanation on the principles of service design and what it means to be service oriented Erl s treatment of the complex world of service oriented architecture is pragmatic inclusive of real world situations and offers readers ways to communicate these ideas through illustrations and well formulated processes David Michalowicz MITRE Corporation This is the book for the large organization trying to rationalize its IT assets and establish an agile platform for the future By highlighting risk and rewards Thomas Erl brings clarity to how Service Orientation can be applied to ensure a responsive IT organization This book finally brings software engineering principles to address the real world development challenges being faced To effectively serve the business let alone embrace SOA everyone involved should be familiar with the concepts investigated here Thomas Erl thoroughly clarifies the nuances and defines the practice of service design We expect that this will become a classic text in software engineering corporate training and colleges Cory Isaacson President Rogue Wave Software and Ravi Palepu SOA Author and Speaker Thomas Erl does a great job an easy read Michael H Sor Booz Allen Hamilton a must read for SOA Architects to develop a firm foundation and understanding of the principles and trade offs that make up a good SOA service After reading this book it finally clicked as to why a properly designed SOA system is different and better than a system based on previous enterprise architectures Fred Ingham Platinum Solutions Inc Lays a tremendous foundation for business and technical workers to come to common terms and expectations incredibly enlightening to see the details associated with achieving the SOA vision Wayne P Ariola Vice President of Strategy Parasoft Erl does and excellent job of addressing the breadth of his audience to present to those new to SOA and weaved in enough detail to assist those who are already actively involved in SOA development R Perry Smith Application Program Manager EDS OnStar It is easy to miss the big picture of what SOA means for the design of larger scale systems amidst the details of WS technologies Erl helps provide a broader perspective surveying the landscape from a design standpoint Jim Clune Chief Architect Parasoft Lays a firm foundation for

the underlying principles of good service design Cuts through the hype and provides a cogent resource for improving architectural judgment on SOA projects Jim Murphy Vice President of Product Management Mindreef Inc The first book to concisely gradually and comprehensively explain how to apply SOA principles into enterprise level software design It is an excellent book Robin G Qiu Ph D Division of Engineering and Information Science Pennsylvania State University I really think that this is a very useful book that a lot of people really need out there in the industry Dr Arnaud Simon Principal Software Engineer Red Hat indispensable companion to designing and implementing a service oriented architecture It condenses all information necessary to design services and is the most relevant source I know if in the field This book is not only helpful but fundamental to successfully designing an SOA Phillipp Offermann Research Analyst University of Berlin Service Oriented Architecture is an important topic in IT today Its vast scope could span an organization s enterprise Designing it properly is a major undertaking This book provides timely expert and comprehensive discussions on the principles of service design Thomas has a keen sense in identifying the subtle points of various subjects and explains them in an easy to understand way The book is a valuable resource for IT professionals working in SOA Peter H Chang PhD Associate Professor of Information Systems Lawrence Technological University The Definitive Guide to Service Engineering 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 Bestselling SOA author Thomas Erl 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 This book s in depth coverage includes Over 240 full color illustrations A concise introduction to SOA and service oriented computing concepts and benefits A thorough exploration of the service orientation design paradigm as represented by eight specific design principles A comparison of service oriented and object oriented concepts and principles and a clear definition of what qualifies as service oriented logic Detailed coverage of four different forms of service related design granularity An exhaustive examination of service contracts with an emphasis on standardization abstraction and the utilization of WS Policy XML Schema and WSDL definitions A comprehensive study of positive and negative service related coupling types with an emphasis on the requirements to attaining a suitable level of loose coupling An inside look into how commercial design approaches are incorporated to achieve truly agnostic and reusable service logic Techniques for maximizing service reliability scalability and performance by instilling high levels of autonomy and emphasizing stateless design Approaches for positioning services as highly discoverable and interpretable enterprise resources Unprecedented coverage of how to design services for participation in complex compositions The definition of concrete links between each design principle and the strategic goals and benefits of SOA and service oriented computing Numerous cross references to key design patterns documented separately in SOA

Design Patterns www prenhallprofessional com www soabooks com Preface xxv Chapter 1 Introduction 1 Chapter 2 Case Study Background 19 Part I Fundamentals Chapter 3 Service Oriented Computing and SOA 25 Chapter 4 Service Orientation 67 Chapter 5 Understanding Design Principles 103 Part II Design Principles Chapter 6 Service Contracts Standardization and Design 125 Chapter 7 Service Coupling Intra Service and Consumer Dependencies 163 Chapter 8 Service Abstraction Information Hiding and Meta Abstraction Types 211 Chapter 9 Service Reusability Commercial and Agnostic Design 253 Chapter 10 Service Autonomy Processing Boundaries and Control 293 Chapter 11 Service Statelessness State Management Deferral and Stateless Design 325 Chapter 12 Service Discoverability Interpretability and Communication 361 Chapter 13 Service Composability Composition Member Design and Complex Compositions 387 Part III Supplemental Chapter 14 Service Orientation and Object Orientation A Comparison of Principles and Concepts 445 Chapter 15 Supporting Practices 477 Chapter 16 Mapping Service Orientation Principles to Strategic Goals 497 Appendices Appendix A Case Study Conclusion 513 Appendix B Process Descriptions 517 Appendix C Principles and Patterns Cross Reference 529 Additional Resources 533 About the Author 535 About the Photos 537 Index 539   *SOA with REST Principles, Patterns and Constraints for Building Enterprise Solutions with REST (paperback)* Thomas Erl,Benjamin Carlyle,Cesare Pautasso,Raj Balasubramanian,2017-03 This book illuminates the connection of the two domains SOA and REST in a manner that is concrete and practical providing concise application to everyday architectural challenges Fantastic Ryan Frazier Technology Strategist Microsoft a tour de force that elegantly applies REST principles to the industry standard SOA framework described in prior titles in this series This book is a must read for anyone developing REST services Dave Slotnick Enterprise Architect Rackspace Hosting This book undoubtedly will help SOA to reap the benefits from the main value propositions of Web architecture Dr Erik Wilde Architect EMC Corporation REST is so much more than just another type of interface implementation SOA with REST shows how the ecosystem of service compositions changes as new opportunities arise for service composition architecture designs A comprehensive guide and a must read for any serious IT architect considering REST style services for application architectures Roger Stoffers Solution Architect Hewlett Packard Service orientation and REST both are architectural styles that are cornerstones of modern applications and cloud computing Both aim to deliver scalable interoperable solutions but their different roots don t always make them a natural fit SOA with REST explains how the two styles can work together in enterprise environments It discusses a design process for a services portfolio that meets the goals of SOA and at the same time designs services that comply with the established REST constraints It also shows pragmatic approaches to meet enterprise grade requirements with the REST programming style but relaxes constraints where necessary Christoph Schittko Director of Cloud Strategy Microsoft An excellent repertoire of service oriented patterns that will prove handy when solving problems in the real world The REST perspectives and principles will provide complete coverage of modern day Web 2 0 style approaches Highly recommended Sid Sanyal IT Architect Zurich Financial Services An

inspirational book that provides deep insight into the design and development of next generation service oriented systems based on the use of REST This book clarifies the convergence of SOA and REST with no nonsense content that addresses common questions and issues head on An essential instrument of modern service implementation and a powerful body of knowledge for software designers architects and consultants Pethuru Raj Ph D Enterprise Architecture EA Consultant Wipro Consulting Services REST and SOA are two of the most misunderstood terms in the software industry over the past decade Yet the REST architectural style coupled with modern RESTful framework implementations provides a scalable and reliable approach to SOA This book covers all you need to know about how to take the principles of REST and apply them in small and large SOA developments If you are familiar with REST and thinking about SOA then you need this book If you have not considered REST in your SOA work then this book is for you too Covering concepts of both REST and SOA as well as design patterns and when to use them the book is a wonderful companion and a good tool for architects and engineers Dr Mark Little CTO JBoss Red Hat Unlike many other texts on the subject SOA with REST is a well rounded easy to read narrative including real world case studies that appeal to both developers and analysts This makes it an indispensable source for any SOA practitioner or any professional who is planning to initiate an SOA project Theodore T Morrison Certified SOA Analyst CSM Geocent LLC SOA and REST are two very important architectural styles for distributed computing SOA is successfully adopted by most enterprises and the REST style is getting more attention from both researcher and industry users The book SOA with REST introduces a new architectural style that is ingeniously combining both SOA and REST styles and clearly reveals how SOA and REST can work together to generate successful enterprise SOA strategies with REST along with guidance for making architecture design decisions This book is a bible of best practices for designing and implementing SOA architecture with REST It is a must have reference book for both IT practitioners and researchers Longji Tang FedEx IT Senior Technical Advisor Ph D in CSSE The Definitive Guide to Building Web Centric SOA with REST The World Wide Web is based on the most successful technology architecture in history It has changed how we view access and exchange information and with the advent of REST it has also provided us with compelling ways to build and improve automation solutions REST provides a great deal of guidance to ensure that an architecture and its automation logic are technically sound though it is still your responsibility to build services that actually add value to your business SOA with REST is the first comprehensive tutorial and reference for designing and building RESTful services as part of service oriented solutions and in conjunction with service oriented architecture SOA This book demonstrates that REST is not only a suitable medium for building truly service oriented solutions but also that the service oriented architectural model is a necessary foundation for REST technology architectures to realize their full business potential The authors provide thorough mapping of REST constraints and architectural goals with service orientation principles and SOA characteristics Using real world examples they show how to leverage REST s simplicity flexibility and low overhead without compromising the power or manageability

of service oriented solutions and architectures This book will be valuable to IT architects developers and any practitioner seeking to use SOA and REST together Topic Areas Distributed solution design with HTTP and REST REST based service composition architectures REST service modeling and a service oriented analysis process for REST service candidates Technical service contract notation for REST services based on a uniform contract Designing REST service contracts with service orientation Understanding REST constraints in relation to service orientation principles Using hypermedia and dynamic binding within SOA and service compositions Creating complex HTTP based methods for enterprise solutions Advanced design techniques including composition deepening runtime logic deferral and dynamic binding with common properties Cross service transactions and event driven messaging with REST Addressing enterprise solution concerns in relation to REST based state management Applying SOA design patterns to REST based solutions Distinguishing REST and SOA service concepts and terminology Designing REST architectures with SOA Versioning REST services and uniform contracts Fundamental REST SOA and service orientation concepts and terminology REST constraints REST architectural goals and properties Seven new REST inspired design patterns Defining common goals of REST and SOA **Service Oriented Architecture Field Guide for Executives** Kyle Gabhart,Bibhas Bhattacharya,2008-06-06 Service Oriented Architecture Field Guide for Executives is a fundamental breakthrough in the business and technology perspectives of service oriented architecture SOA A valuable resource to help you understand and realize the benefits of SOA in today s companies this guide will show you how to plan implement and achieve SOA value Use a prescriptive approach to help you clearly understand SOA and to determine its applications for your business Applicable to all industries technology platforms and operating environments this innovative book will provide you with essential strategies Next Generation SOA Thomas Erl,Clive Gee,Jürgen Kress,Hajo Normann,Pethuru Raj Chelliah,Berthold Maier,Leo Shuster,Bernd Trops,Clemens Utschig-Utschig,Torsten Winterberg,Philip Wik,2015 800x600 The Concise Introduction to Modern SOA High Value Approaches Innovative Technologies Proven Use Cases After a decade of innovation in technology and practice SOA is now a mainstream computing discipline capable of transforming IT enterprises and optimizing business automation In Next Generation SOA top selling SOA author Thomas Erl and a team of experts present a plain English tour of SOA service orientation and the key service technologies being used to build sophisticated contemporary service oriented solutions The starting point for today s IT professionals this concise guide distills the increasingly growing and diverse field of service oriented architecture and the real world practice of building powerful service driven systems Accessible and jargon free this book intentionally avoids technical details to provide easy to understand introductory coverage of the following topics Services service orientation and service oriented computing what they are and how they have evolved How SOA and service orientation change businesses and transform IT culture priorities and technology decisions How services are defined and composed to solve a wide spectrum of business problems Deep implications of the service orientation paradigm illuminated

through an annotation of the classic SOA Manifesto Traditional and contemporary service technologies and architectures How clouds and virtualization support the scalability and reliability of services based solutions SOA based industry models from enterprise service to global trader A detailed case study how real enterprises bring together contemporary SOA practices models and technologies Next Generation SOA will be indispensable to wide audiences of business decision makers and technologists including architects developers managers executives strategists consultants and researchers Normal 0 false false false EN US X NONE X NONE MicrosoftInternetExplorer4 **Enterprise Soa Adoption Strategies** Steve Jones,2006 Major changes in technology have not been driven by the technologies themselves but by the change in thinking that they enabled OO design changed software by changing thoughts away from procedures and onto real world things This book argues that for SOA to succeed we must move our thoughts away from the implementation technologies and towards the what of the business Using a straight forward pictorially driven methodology the book explains who to discover what the business services really are and how to construct an overall business service architecture The book covers defining the Business Service Architecture how to classify services for business value and delivery understanding the role of IT in supporting the architecture how project and portfolio management needs to change how to use a Service Architecture to identify KPIs and how and when to use Business Process in a service architecture Implementing Soa Using Java"!Ee B. V. Kumar,1900 This is the eBook version of the printed book If the print book includes a CD ROM this content is not included within the eBook version The Practitioner s Guide to Implementing SOA with Java EE Technologies This book brings together all the practical insight you need to successfully architect enterprise solutions and implement them using SOA and Java EE technologies Writing for senior IT developers strategists and enterprise architects the authors cover everything from concepts to implementation requirements to tools The authors first review the Java EE platform s essential **Succeeding with SOA** Paul C. Brown,2007-04-24 Getting a Desired Business Return on Your Service Oriented Architecture SOA Investment Today business processes and information systems are so tightly intertwined that they must be designed together as parts of a total architecture to realize enterprise goals In Succeeding with SOA Paul Brown shows how service oriented architectures SOAs provide the best structure for such integration clean well defined interfaces between collaborating entities But even SOAs need to be correctly understood and implemented to avoid common failures Drawing on decades of experience Dr Brown explains what business managers and IT architects absolutely need to know including critical success factors to undertake this essential work Coverage includes Setting clear and reasonable expectations for SOA s benefits Understanding why conventional project management techniques don t scale to today s enterprise wide projects Defining a living roadmap for developing services based on business priorities Establishing coherent leadership that brings together business executives IT leaders and the SOA architecture group Using Total Architecture Synthesis TAS to rapidly develop business processes and information systems together Understanding the central role of architecture and making sure the

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