

Web Services Service Oriented Architectures And Cloud Computing Second Edition The Savvy Managers Guide The Savvy Managers Guides

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.

Web services allow new and improved ways for enterprise applications to communicate and integrate with each other over the Web and, as such, are having a profound effect on both the worlds of business and of software development. The new edition of this bestselling book offers a comprehensive and up to date treatment of web services and Service Oriented Architecture (SOA), giving you all you need to know to gain a solid foundation in this area. Building upon the clear,

accessible approach of the first edition, it provides a complete introduction to the concepts, principles, technology and standards of web services. The book also provides an in depth examination of good design and development practises for SOA applications in organisations. Key features A spiral approach to instruction helps readers build on and reinforce basic knowledge as the topics become more advanced. Numerous examples which demonstrate the practical application of the theory are included. Self-test questions, hints, tips and discussion topics feature throughout the book to support self-directed learning. New to this edition Two new chapters have been added on SOA modelling and Cloud Computing technology. A comprehensive real-life case study containing numerous practical examples has been integrated and referenced throughout the entire book to give readers 'hands-on' insight into applying theory to practice, and enhance understanding of the key concepts. Business Process Modelling Notation (BPMN), which is rapidly becoming an industry standard, is used throughout the book. Discussion of software engineering issues related to implementing sound SOA applications is included. Description of new standards, such as BPEL v2.0 is discussed. A Companion Website (www.pearsoned.co.uk/papazoglou) offers detailed coding solutions available to download.

A guide to Web services covers such topics as service orientation, UDDI, transactions, security, BPEL, and WS-MetadataExchange.

Web browsing would not be what it is today without the use of Service-Oriented Architecture (SOA). Although much has been written about SOA methodology, this emerging platform is continuously under development. Exploring Enterprise Service Bus in the Service-Oriented Architecture Paradigm is a detailed reference source that examines current aspects and research methodologies that enable enterprise service bus to unify and connect services efficiently on a common platform. Featuring relevant topics such as SOA reference architecture, grid computing applications, complex event computing, and java business integration, this is an ideal resource for all practitioners, academicians, graduate students, and researchers interested in the discoveries on the relationship that Service-Oriented architecture and enterprise service bus share. 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 strateg

Aggressively being adopted by organizations in all markets, service-oriented architecture (SOA) is a framework enabling business process improvement for gaining competitive advantage. Service-Oriented Architecture: SOA Strategy, Methodology, and Technology guides you through the challenges of deploying SOA. It demonstrates conclusively that strategy and methodology are the keys to implementing SOA and provides the methodology needed for SOA success. The book examines the role of both non-agile and agile project management techniques for deploying SOA. Its methodology applies frameworks of governance, communications, product realization, project management, architecture, data management, service management, human resource management and post implementation processes. Filled with case studies, the book shows the methodology in action. This reference benefits business managers,

business analysts, and technology project managers who are serious about adopting SOA as a long-term strategy. It also benefits those new to business process management, enterprise architecture, and information systems and need to understand SOA, its business drivers, and its methodology.

Web services are leading to the use of more packaged software either as an internal service or an external service available over the Internet. These services, which will be connected together to create the information technology systems of the future, will require less custom software in our organizations and more creativity in the connections between the services. This book begins with a high-level example of how an average person in an organization might interact with a service-oriented architecture. As the book progresses, more technical detail is added in a "peeling of the onion" approach. The leadership opportunities within these developing service-oriented architectures are also explained. At the end of the book there is a compendium or "pocket library" for software technology related to service-oriented architectures. Only web services book to cover both data management and software engineering perspectives, excellent resource for ALL members of IT teams ; Jargon free, highly illustrated, with introduction that anyone can read that then leads into increasing technical detail ; Provides a set of leadership principles and suggested application for

using this technology.

This book presents emerging trends in the evolution of service-oriented and enterprise architectures. New architectures and methods of both business and IT are integrating services to support mobility systems, Internet of Things, Ubiquitous Computing, collaborative and adaptive business processes, Big Data, and Cloud ecosystems. They inspire current and future digital strategies and create new opportunities for the digital transformation of next digital products and services. Services Oriented Architectures (SOA) and Enterprise Architectures (EA) have emerged as a useful framework for developing interoperable, large-scale systems, typically implementing various standards, like Web Services, REST, and Microservices. Managing the adaptation and evolution of such systems presents a great challenge. Service-Oriented Architecture enables flexibility through loose coupling, both between the services themselves and between the IT organizations that manage them. Enterprises evolve continuously by transforming and extending their services, processes and information systems. Enterprise Architectures provide a holistic blueprint to help define the structure and operation of an organization with the goal of determining how an organization can most effectively achieve its objectives. The book proposes several approaches to address the challenges of the service-oriented

evolution of digital enterprise and software architectures.

Reap the benefits of increased ROI by integrating Service-Oriented Design principles and XML Web services into your IT infrastructure.

Expert Solutions and State-of-the-Art Code

Examples SOA Using Java™ Web Services is a hands-on guide to implementing Web services and Service Oriented Architecture (SOA) with today's Java EE 5 and Java SE 6 platforms. Author Mark Hansen presents in explicit detail the information that enterprise developers and architects need to succeed, from best-practice design techniques to state-of-the-art code samples. Hansen covers creating, deploying, and invoking Web services that can be composed into loosely coupled SOA applications. He begins by reviewing the "big picture," including the challenges of Java-based SOA development and the limitations of traditional approaches. Next, he systematically introduces the latest Java Web Services (JWS) APIs and walks through creating Web services that integrate into a comprehensive SOA solution. Finally, he shows how application frameworks based on JWS can streamline the entire SOA development process and introduces one such framework: SOA-J. The book Introduces practical techniques for managing the complexity of Web services and SOA, including best-practice design examples Offers hard-won insights

into building effective SOA applications with Java Web Services Illuminates recent major JWS improvements—including two full chapters on JAX-WS 2.0 Thoroughly explains SOA integration using WSDL, SOAP, Java/XML mapping, and JAXB 2.0 data binding Walks step by step through packaging and deploying Web services components on Java EE 5 with JSR-181 (WS-Metadata 2.0) and JSR-109 Includes specific code solutions for many development issues, from publishing REST endpoints to consuming SOAP services with WSDL Presents a complete case study using the JWS APIs, together with an Ajax front end, to build a SOA application integrating Amazon, Yahoo Shopping, and eBay Contains hundreds of code samples—all tested with the GlassFish Java EE 5 reference implementation—that are downloadable from the companion Web site, <http://soabook.com>. Foreword Preface Acknowledgments About the Author Chapter 1: Service-Oriented Architecture with Java Web Services Chapter 2: An Overview of Java Web Services Chapter 3: Basic SOA Using REST Chapter 4: The Role of WSDL, SOAP, and Java/XML Mapping in SOA Chapter 5: The JAXB 2.0 Data Binding Chapter 6: JAX-WS—Client-Side Development Chapter 7: JAX-WS 2.0—Server-Side Development Chapter 8: Packaging and Deployment of SOA Components (JSR-181 and JSR-109) Chapter 9: SOAShopper: Integrating eBay, Amazon,

and Yahoo! Shopping Chapter 10: Ajax and Java Web Services Chapter 11: WSDL-Centric Java Web Services with SOA-J Appendix A: Java, XML, and Web Services Standards Used in This Book

Appendix B: Software Configuration Guide Appendix C: Namespace Prefixes Glossary References Index

Where most SOA books focus on integration and architecture basics, Lomow and Newcomer

fearlessly dive into these more advanced, yet critical, topics, and provide a depth of treatment unavailable anywhere else."--Jason Bloomberg, Senior Analyst, ZapThink LLC

"This book provides a wealth of content on Web Services and SOA not found elsewhere. Although the book is technical in nature, it is surprisingly easy to read and digest. Managers who would like to keep up with the most effective technical strategies will find this book required reading."--Hari Mailvaganam, University of British Columbia, Vancouver

"I have been teaching companies and lecturing on SOA and XML Web Services for years and sort of felt at home with these technologies. I didn't think anyone else could teach me anything more significant about either of them. This book surprised me. If a person teaching SOA and Web Services can learn something from this book, you can too. This book is a must-read for all architects, senior developers, and concerned CTOs."--Sayed Y.

Although integrating security into the design of

applications has proven to deliver resilient products, there are few books available that provide guidance on how to incorporate security into the design of an application. Filling this need, *Security for Service Oriented Architectures* examines both application and security architectures and illustrates the relationship between the two. Supplying authoritative guidance on how to design distributed and resilient applications, the book provides an overview of the various standards that service oriented and distributed applications leverage, including SOAP, HTML 5, SAML, XML Encryption, XML Signature, WS-Security, and WS-SecureConversation. It examines emerging issues of privacy and discusses how to design applications within a secure context to facilitate the understanding of these technologies you need to make intelligent decisions regarding their design. This complete guide to security for web services and SOA considers the malicious user story of the abuses and attacks against applications as examples of how design flaws and oversights have subverted the goals of providing resilient business functionality. It reviews recent research on access control for simple and conversation-based web services, advanced digital identity management techniques, and access control for web-based workflows. Filled with illustrative examples and analyses of critical issues, this book provides both security and software architects with a bridge

between software and service-oriented architectures and security architectures, with the goal of providing a means to develop software architectures that leverage security architectures. It is also a reliable source of reference on Web services standards. Coverage includes the four types of architectures, implementing and securing SOA, Web 2.0, other SOA platforms, auditing SOAs, and defending and detecting attacks.

The Top-Selling, De Facto Guide to SOA--Now Updated with New Content and Coverage of Microservices! For more than a decade, Thomas Erl's best-selling Service-Oriented Architecture: Concepts, Technology, and Design has been the definitive end-to-end tutorial on SOA, service-orientation, and service technologies. Now, Erl has thoroughly updated the industry's de facto guide to SOA to reflect new practices, technologies, and strategies that have emerged through hard-won experience and creative innovation. This Second Edition officially introduces microservices and micro task abstraction as part of service-oriented architecture and its associated service layers. Updated case study examples and illustrations further explain and position the microservice model alongside and in relation to more traditional types of services. Coverage includes:

- Easy-to-understand, plain English explanations of SOA and service-orientation fundamentals (as compiled from series

titles) • Microservices, micro task abstraction, and containerization • Service delivery lifecycle and associated phases • Analysis and conceptualization of services and microservices • Service API design with REST services, web services, and microservices • Modern service API and contract versioning techniques for web services and REST services • Up-to-date appendices with service-orientation principles, REST constraints, and SOA patterns (including three new patterns) Service-Oriented Architecture: Analysis and Design for Services and Microservices, Second Edition, will be indispensable to application architects, enterprise architects, software developers, and any IT professionals interested in learning about or responsible for designing or implementing modern-day, service-oriented solutions. Chapter 1: Introduction Chapter 2: Case Study Backgrounds Part I: Fundamentals Chapter 3: Understanding Service-Orientation Chapter 4: Understanding SOA Chapter 5: Understanding Layers with Services and Microservices Part II: Service-Oriented Analysis and Design Chapter 6: Analysis and Modeling with Web Services and Microservices Chapter 7: Analysis and Modeling with REST Services and Microservices Chapter 8: Service API and Contract Design with Web Services Chapter 9: Service API and Contract Design with REST Services and Microservices Chapter 10: Service API and Contract Versioning

with Web Services and REST Services Part III:

Appendices Appendix A: Service-Oriented

Principles Reference Appendix B: REST Constraints

Reference Appendix C: SOA Design Patterns

Reference Appendix D: The Annotated SOA

Manifesto

This comprehensive text explains the principles and practice of Web services and relates all concepts to practical examples and emerging standards. Its discussions include: Ontologies Semantic web technologies Peer-to-peer service discovery Service selection Web structure and link analysis Distributed transactions Process modelling Consistency management. The application of these technologies is clearly explained within the context of planning, negotiation, contracts, compliance, privacy, and network policies. The presentation of the intellectual underpinnings of Web services draws from several key disciplines such as databases, distributed computing, artificial intelligence, and multi-agent systems for techniques and formalisms. Ideas from these disciplines are united in the context of Web services and service-based applications. Featuring an accompanying website and teacher's manual that includes a complete set of transparencies for lectures, copies of open-source software for exercises and working implementations, and resources to conduct course projects, this book makes an excellent graduate textbook. It will also

prove an invaluable reference and training tool for practitioners.

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. Companies worldwide are rapidly adopting Service-Oriented Architecture (SOA), a design methodology used to connect systems as services, and Business Process Management (BPM), the art of orchestrating these services. Media organizations from news organizations to music and media download services to movie studios are adapting to SOA-style architectures, but have run into roadblocks unique to the media and entertainment industry. These challenges include incorporating real-time data, moving large amounts of data at one time, non-linearity and flexibility for workflow, and unique metrics and data gathering. The Service-Oriented Media Enterprise details the challenges and presents solutions for media technology professionals. By addressing both the IT and media

aspects, it helps individuals improve current enterprise technologies and operations.

"This book's main objective is to present some of the key approaches, research lines, and challenges that exist in the field of security in SOA systems"--Provided by publisher.

"This book offers a selection of chapters that cover three important aspects related to the use of non-functional properties in SOA: requirements specification with respect to non-functional properties, modeling non-functional properties and implementation of non-functional properties"--Provided by publisher.

Web Services, Service-Oriented Architectures, and Cloud Computing is a jargon-free, highly illustrated explanation of how to leverage the rapidly multiplying services available on the Internet. The future of business will depend on software agents, mobile devices, public and private clouds, big data, and other highly connected technology. IT professionals will need to evaluate and combine online services into service-oriented architectures (SOA), often depending on Web services and cloud computing. This can mean a fundamental shift away from custom software and towards a more nimble use of semantic vocabularies, middle-tier systems, adapters and other standardizing aspects. This book is a guide for the savvy manager who wants to capitalize on this technological revolution. It begins

with a high-level example of how an average person might interact with a service-oriented architecture, and progresses to more detail, discussing technical forces driving adoption and how to manage technology, culture and personnel issues that can arise during adoption. An extensive reference section provides quick access to commonly used terms and concepts. Broad, non-technical explanation of a technical topic for managers at all levels Only web services book to cover data management and software engineering perspectives; excellent resource for all members of IT teams Provides a set of leadership principles and suggested applications for using this technology "Every developer working with the Web needs to read this book." -- David Heinemeier Hansson, creator of the Rails framework "RESTful Web Services finally provides a practical roadmap for constructing services that embrace the Web, instead of trying to route around it." -- Adam Trachtenberg, PHP author and EBay Web Services Evangelist You've built web sites that can be used by humans. But can you also build web sites that are usable by machines? That's where the future lies, and that's what RESTful Web Services shows you how to do. The World Wide Web is the most popular distributed application in history, and Web services and mashups have turned it into a powerful distributed computing platform. But today's web service

technologies have lost sight of the simplicity that made the Web successful. They don't work like the Web, and they're missing out on its advantages. This book puts the "Web" back into web services. It shows how you can connect to the programmable web with the technologies you already use every day. The key is REST, the architectural style that drives the Web. This book: Emphasizes the power of basic Web technologies -- the HTTP application protocol, the URI naming standard, and the XML markup language Introduces the Resource-Oriented Architecture (ROA), a common-sense set of rules for designing RESTful web services Shows how a RESTful design is simpler, more versatile, and more scalable than a design based on Remote Procedure Calls (RPC) Includes real-world examples of RESTful web services, like Amazon's Simple Storage Service and the Atom Publishing Protocol Discusses web service clients for popular programming languages Shows how to implement RESTful services in three popular frameworks -- Ruby on Rails, Restlet (for Java), and Django (for Python) Focuses on practical issues: how to design and implement RESTful web services and clients This is the first book that applies the REST design philosophy to real web services. It sets down the best practices you need to make your design a success, and the techniques you need to turn your design into working code. You can harness the

power of the Web for programmable applications: you just have to work with the Web instead of against it. This book shows you how.

"This book presents a closer look at the partnership between service oriented architecture and cloud computing environments while analyzing potential solutions to challenges related to the migration of legacy applications"--Provided by publisher.

This book will draw you into the service-oriented architecture (SOA) mindset and immerse you in updated code and reference material specifically architected for Visual Studio 2005 and Web Services Enhancements (WSE) 3.0. The book provides a head start on building SOA applications using the author's clear conceptual discussions, practical examples, and accurate treatment of difficult material that doesn't simply "gloss over" the hard stuff. This book will show you how to shift your development paradigm to create Web services that process sophisticated XML messages within a secure, service-oriented, loosely-coupled architecture.

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.

This book is an overview of how to implement SOA using Java with the help of real-world examples. It briefly introduces the theory behind SOA and all the case studies are described from scratch. This book is for Java programmers or architects who are interested in implementing SOA concepts in their applications. Readers should be familiar with Java Enterprise concepts.

Mobile Web services offer new possibilities and extraordinary rewards for the mobile telecommunications market. Service-oriented architectures (SOAs) implemented with Web services are fundamentally changing business processes supported by distributed computing. These technologies bring forward the promise of services available at any time, in any place, and on any platform. Through mobile Web services, operators can offer new value-added services for their users, explore new business opportunities and increase revenue and customer retention. This expands the commercial opportunities for developers to promote their applications and enables solutions that work seamlessly

across computer and mobile environments. Mobile Web Services is a comprehensive, up-to-date and practical guide to adapting mobile Web services-based applications. The expert author team from Nokia explain in depth the software architecture and application development interfaces needed to develop solutions for these technologies. Mobile Web Services: Architecture and Implementation: Provides a complete and authoritative text on implementing mobile Web services. Describes the mobile Service-Oriented Architecture (SOA) concept. Covers the discovery, description and security of Web services. Explains how to use Simple Object Access Protocol (SOAP) in Web service messaging. Discusses the challenges and possibilities of mobile Web services, and gives case studies to illustrate the application of the technology. Presents the Nokia Mobile Web Services platform. Offers material on developing mobile Web service clients using C++ and Java. This text is essential reading for wireless Web architects, mobile application developers and programmers, software developers, technical officers and consultants, as well as advanced students in Computer Science and Electrical Engineering. Praise for Service-Oriented Architecture Compass "A comprehensive roadmap to Service-Oriented Architecture (SOA). SOA is, in reality, a business architecture to be used by those enterprises intending to prosper in the 21st century. Decision makers who desire that their business become flexible can jumpstart that process by adopting the best practices and rules of thumb described in SOA Compass." -Bob Laird, MCI IT

Chief Architect "The book Service-Oriented Architecture Compass shows very clearly by means of real projects how agile business processes can be implemented using Service-Oriented Architectures. The entire development cycle from planning through implementation is presented very close to practice and the critical success factors are presented very convincingly." -Professor Dr. Thomas Obermeier, Vice Dean of FHDW Bergisch Gladbach, Germany "This book is a major improvement in the field. It gives a clear view and all the key points on how to really face a SOA deployment in today's organizations." -Mario Moreno, IT Architect Leader, Generali France "Service-Oriented Architecture enables organizations to be agile and flexible enough to adopt new business strategies and produce new services to overcome the challenges created by business dynamism today. CIOs have to consider SOA as a foundation of their Enterprise Applications Architecture primarily because it demonstrates that IT aligns to business processes and also because it positions IT as a service enabler and maximizes previous investments on business applications. To understand and profit from SOA, this book provides CIOs with the necessary concepts and knowledge needed to understand and adapt it into their IT organizations." -Sabri Hamed Al-Azazi, CIO of Dubai Holding, Sabri "I am extremely impressed by the depth and scale of this book! The title is perfect-when you know where you want to go, you need a compass to guide you there! After good IT strategy leads you to SOA, this book is the perfect vehicle that will drive you from dream to reality. We in DSK Bank will use it as our

SOA bible in the ongoing project." -Miro Vichev, CIO, DSK Bank, Bulgaria, member of OTP Group "Service-Oriented Architecture offers a pathway to networking of intra- and inter-corporate business systems. The standards have the potential to create far more flexible and resilient business information systems than have been possible in the past. This book is a must-read for those who care about the future of business IT."

-Elizabeth Hackenson, CIO, MCI "Service-Oriented Architecture is key to help customers become on demand businesses-a business that can quickly respond to competitive threats and be first to take advantage of marketplace opportunities. SOA Compass is a must-read for those individuals looking to bridge the gap between IT and business in order to help their enterprises become more flexible and responsive." -Michael Liebow, Vice

President, Web Services and Service-Oriented Architecture, IBM Business Consulting Services "This book is a welcome addition to SOA literature. It articulates the business case and provides practical proven real-world advice, guidance, tips, and techniques for organizations to make the evolution from simple point-to-point web services to true SOA by addressing such topics as planning, organization, analysis and design, security, and systems management." -Denis O'Sullivan, Fireman's Fund Enterprise Architect Maximize the

business value and flexibility of your SOA deployment In this book, IBM Enterprise Integration Team experts present a start-to-finish guide to planning, implementing, and managing Service-Oriented Architecture. Drawing on their extensive experience helping enterprise

customers migrate to SOA, the authors share hard-earned lessons and best practices for architects, project managers, and software development leaders alike. Well-written and practical, *Service-Oriented Architecture Compass* offers the perfect blend of principles and "how-to" guidance for transitioning your infrastructure to SOA. The authors clearly explain what SOA is, the opportunities it offers, and how it differs from earlier approaches. Using detailed examples from IBM consulting engagements, they show how to deploy SOA solutions that tightly integrate with your processes and operations, delivering maximum flexibility and value. With detailed coverage of topics ranging from policy-based management to workflow implementation, no other SOA book offers comparable value to workingIT professionals. Coverage includes SOA from both a business and technical standpoint-and how to make the business case Planning your SOA project: best practices and pitfalls to avoid SOA analysis and design for superior flexibility and value Securing and managing your SOA environment Using SOA to simplify enterprise application integration Implementing business processes and workflow in SOA environments Case studies in SOA deployment After you've deployed: delivering better collaboration, greater scalability, and more sophisticated applications The IBM Press developerWorks® Series is a unique undertaking in which print books and the Web are mutually supportive. The publications in this series are complemented by resources on the developerWorks Web site on ibm.com. Icons throughout the book alert the reader to these valuable resources.

SOA is the most important initiative facing IT today and is difficult to grasp; this book demystifies the complex topic of SOA and makes it accessible to all those people who hear the term but aren't really sure what it means. This team of well-respected authors explains that SOA is a collection of applications that enables resources to be available to other participants in a network using any service-based technology. Examines how SOA enables faster and cheaper application development and how it offers reusable code that can be used across various applications. Covers what SOA is, why it matters, how it can impact businesses, and how to take steps to implement SOA in a corporate environment. Endorsed by all major vendors (Microsoft, Oracle, IBM, and SAP), SOA has quickly become the industry standard for building next-generation software; this practical guide shows readers how to achieve the many benefits of SOA. Begins with a look at the architectural principles needed to create successful applications and then goes on to examine the process for designing services and SOA implementations. Each stage of the design process has an accompanying chapter that walks readers through the details and provides helpful tips, techniques, and examples. The author team of SOA practitioners also provides two unique, comprehensive, end-to-end case studies illustrating the architectural and design techniques presented in the book. Service-Oriented Architecture (SOA) is at the heart of a revolutionary computing platform that is being adopted world-wide and has earned the support of every major software provider. In *Service-Oriented Architecture:*

Concepts, Technology, and Design, Thomas Erl presents the first end-to-end tutorial that provides step-by-step instructions for modeling and designing service-oriented solutions from the ground up. Erl uses more than 125 case study examples and over 300 diagrams to illuminate the most important facets of building SOA platforms: goals, obstacles, concepts, technologies, standards, delivery strategies, and processes for analysis and design. His book's broad coverage includes Detailed step-by-step processes for service-oriented analysis and service-oriented design An in-depth exploration of service-orientation as a distinct design paradigm, including a comparison to object-orientation A comprehensive study of SOA support in .NET and J2EE development and runtime platforms Descriptions of over a dozen key Web services technologies and WS-* specifications, including explanations of how they interrelate and how they are positioned within SOA The use of "In Plain English" sections, which describe complex concepts through non-technical analogies Guidelines for service-oriented business modeling and the creation of specialized service abstraction layers A study contrasting past architectures with SOA and reviewing current industry influences Project planning and the comparison of different SOA delivery strategies The goal of this book is to help you attain a solid understanding of what constitutes contemporary SOA along with step-by-step guidance for realizing its successful implementation.

*Describes an agile process that works on large projects

*Ideal for hurried developers who want to develop

software in teams *Incorporates real-life C#/.NET web project; can compare this with cases in book

This book, presented in three volumes, examines environmental disciplines in relation to major players in contemporary science: Big Data, artificial intelligence and cloud computing. Today, there is a real sense of urgency regarding the evolution of computer technology, the ever-increasing volume of data, threats to our climate and the sustainable development of our planet. As such, we need to reduce technology just as much as we need to bridge the global socio-economic gap between the North and South; between universal free access to data (open data) and free software (open source). In this book, we pay particular attention to certain environmental subjects, in order to enrich our understanding of cloud computing. These subjects are: erosion; urban air pollution and atmospheric pollution in Southeast Asia; melting permafrost (causing the accelerated release of soil organic carbon in the atmosphere); alert systems of environmental hazards (such as forest fires, prospective modeling of socio-spatial practices and land use); and web fountains of geographical data. Finally, this book asks the question: in order to find a pattern in the data, how do we move from a traditional computing model-based world to pure mathematical research? After thorough examination of this topic, we conclude that this goal is both transdisciplinary and achievable.

Provides information and examples on using Windows Communication Foundation to build service-oriented applications.

Sams has assembled a team of experts in web services to provide you with a detailed reference guide on XML, SOAP, USDL and UDDI. Building Web Services with Java is in its second edition and it includes the newest standards for managing security, transactions, reliability and interoperability in web service applications. Go beyond the explanations of standards and find out how and why these tools were designed as they are and focus on practical examples of each concept. Download your source code from the publisher's website and work with a running example of a full enterprise solution. Learn from the best in Building Web Services with Java. Learn to apply the significant promise of SOA to overcome the formidable challenges of distributed enterprise development.

Discover how Web services can improve cost-savings and make your organization more competitive. You'll get summaries of developing standards, current vendor positions (Microsoft, Novell, IBM, Oracle, Sun), and industry examples of Web services solutions and benefits. Order your copy today!

Web services are leading to the use of more packaged software either as an internal service or an external service available over the Internet. These services, which will be connected together to create the information technology systems of the future, will require less custom software in our organizations and more creativity in the connections between the services. This book begins with a high-level example of how an average person in an organization might interact with a service-oriented architecture. As the book progresses,

more technical detail is added in a "peeling of the onion" approach. The leadership opportunities within these developing service-oriented architectures are also explained. At the end of the book there is a compendium or "pocket library" for software technology related to service-oriented architectures. · Only web services book to cover both data management and software engineering perspectives, excellent resource for ALL members of IT teams · Jargon free, highly illustrated, with introduction that anyone can read that then leads into increasing technical detail · Provides a set of leadership principles and suggested application for using this technology.

Web services technologies are advancing fast and being extensively deployed in many different application environments. Web services based on the extensible Markup Language (XML), the Simple Object Access Protocol (SOAP), and related standards, and deployed in Service-Oriented Architectures (SOAs) are the key to Web-based interoperability for applications within and across organizations. Furthermore, they are making it possible to deploy applications that can be directly used by people, and thus making the Web a rich and powerful social interaction medium. The term Web 2.0 has been coined to embrace all those new collaborative applications and to indicate a new, "social" approach to generating and distributing Web content, characterized by open communication, decentralization of authority, and freedom to share and reuse. For Web services technologies to hold their promise, it is crucial that security of services and their interactions with users be

assured. Confidentiality, integrity, availability, and digital identity management are all required. People need to be assured that their interactions with services over the Web are kept confidential and the privacy of their personal information is preserved. People need to be sure that information they use for looking up and selecting services is correct and its integrity is assured. People want services to be available when needed. They also require interactions to be convenient and personalized, in addition to being private. Addressing these requirements, especially when dealing with open distributed applications, is a formidable challenge.

Written by industry thought leaders, *Java Web Services Architecture* is a no-nonsense guide to web services technologies including SOAP, WSDL, UDDI and the JAX APIs. This book is useful for systems architects and provides many of the practical considerations for implementing web services including authorization, encryption, transactions and the future of Web Services. Covers all the standards, the JAX APIs, transactions, security, and more.

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