

Enterprise Soa Service Oriented Architecture Best Practices

There has never been a Service-Oriented Architecture Guide like this. Service-Oriented Architecture 48 Success Secrets is not about the ins and outs of Service-Oriented Architecture. Instead, it answers the top 48 questions that we are asked and those we come across in our forums, consultancy and education programs. It tells you exactly how to deal with those questions, with tips that have never before been offered in print. Get the information you need--fast! This comprehensive guide offers a thorough view of key knowledge and detailed insight. This Guide introduces everything you want to know to be successful with Service-Oriented Architecture. A quick look inside of the subjects covered: Service Counts in SOA Enterprise Architecture, What is SOA?, Updates on Data Virtualization, Knowledge Services, Boost your Business to the Next Level with Enterprise Services Architecture, WHEN IS SOA CONSULTING NEEDED?, SOA Architecture, Accelerator, Enterprise Future SOA, What Is Service-Oriented Architecture, Is Open Source Boosting the Popularity of Java SOA?, Developerworks SOA and Web Services, The SAP SOA Platform, Describing the ESB SOA relationship, How can Cloud Computing and SOA be leveraged together?, System Development Lifecycle, Web services soa, Why Did Microsoft Jump to the Microsoft CRM 3.0 Version and Skip Version 2.0?, What is ISO 20000?, TOGAF SOA: Another Breakthrough to Move Forward, SOA BPM Redefined, Will there be Cd rom versions of ITIL v3 available?, An Introduction to SOA Tutorial Basics, What is BPM SOA BAM BPEL web services, What We

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May Mean By SOA Application, SOA - Linking Business Resources for Better Provision of Services, Big Issues facing tech-savvy businesses SOA Security (and Governance), Can Children Learn Enough About SOA to Take an SOA Exam?, DNS SOA, Classifications of Information, Assets and Configurations, SOA Governance, Service-Oriented Architecture (SOA in general), Service oriented architecture, Service Oriented Architecture Certification, SOA and Web service, The Finance IT Contract Management Governance, What's the difference between Enterprise Architecture and SOA?, Why Enterprises Need SOA Integration, SOA Software, Farmers Insurance and Service Oriented Architecture, Farmers Insurance Service Oriented Architecture, Making SOA Testing More Efficient and Convenient, The Numerous Advantages of Enterprise Service Architecture, MS CRM May Be Better Known As the Microsoft Dynamics CRM, SOA MODELS, The Real-World SOA Microsoft Approach, SOA and ITIL, and much more...

Information Technology professionals can use this book to move beyond the excitement of web services and service oriented architecture (SOA) and begin the process of finding actionable ideas to innovate and create business value. In Enterprise SOA: Designing IT for Business Innovation, SAP's blueprint for putting SOA to work is analyzed from top to bottom. In addition to design, development, and architecture, vital contextual issues such as governance, security, change management, and culture are also explored. This comprehensive perspective reduces risk as IT departments implement ESA, a sound, flexible architecture for adapting business processes in response to changing market conditions. This book answers the following questions: What forces created the need for Enterprise Services Architecture? How does ESA enable business process innovation? How is model-driven development used at all

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levels of design, configuration, and deployment? How do all the layers of technology that support ESA work together? How will composite applications extend business process automation? How does ESA create new models for IT governance? How can companies manage disruptive change? How can enterprise services be discovered and designed? How will the process of adapting applications be simplified? Based on extensive research with experts from the German software company SAP, this definitive book is ideal for architects, developers, and other IT professionals who want to understand the technology and business relevance of ESA in a detailed way--especially those who want to move on the technology now, rather than in the next year or two.

Companies have long sought to integrate existing Information Systems (IS) in order to support existing and potentially new business processes spread throughout their "territories" and possibly to collaborating organizations. A variety of designs can be used to this end, ranging from rigid point-to-point electronic data interchange (EDI) interactions to "Web auctions". By updating older technologies, such as "Internet-enabling" EDI-based systems, companies can make their IT systems available to internal or external customers; but the resulting systems have not proven to be flexible enough to meet business demands. A more flexible, standardized architecture is required to better support the connection of various applications and the sharing of data. Service-Oriented Architecture (SOA) is one such architecture. It unifies ("orchestrates") business processes by structuring large applications as an ad-hoc collection of smaller modules called "Services". These applications can be used by different groups of people both inside and outside the company, and new applications built from a mix of services (located in a global repository) exhibit greater agility and uniformity. Thus, SOA is a

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design framework for realizing rapid and low-cost system development and improving total system quality. SOA uses the Web Services standards and technologies and is rapidly becoming a standard approach for enterprise information systems integration. SOA adoption by enterprises has been identified as one of the highest business priorities by a recent Gartner study (Gartner 2007) and enterprises increasingly recognize the requirement for an increased “Service-orientation” and relevant comprehensive frameworks, which will not only help them position themselves and evaluate their SOA initiatives, but also guide them in achieving higher levels of SOA maturity. This in turn, will help enterprises acquire (and retain) competitive advantage over other players in the market who are not (using SOA and thus they are not) so flexibly adjusting themselves to address new business requirements. This book proposes a new SOA Maturity Model (MM) using a Delphi-variant technique and this constitutes one of its distinguishing features because none of the relevant existing works utilized Delphi. Moreover, the fact that the proposed SOA MM supports inter-enterprise setups makes it even more distinct. The newly proposed SOA MM is then used to help the participating organizations position themselves in respect to SOA (current status), guide them to achieve higher levels of SOA maturity, and anticipate their SOA maturity in five years’ time. Furthermore, the “local” or “global” nature of the proposed SOA MM is investigated. This is checked firstly against selected expert panel participants and secondly against local business practitioners. 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

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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. Special Features: · SOA is an upcoming and hot topic nowadays. Besides the corporate work, SOA is being introduced as an elective paper in major universities. · First book that focuses on architecture, design and development of enterprise and cloud applications based on SOA. · Caters to the needs of students who need to understand the concepts of SOA and cloud computing; architects, designers and developers who build SOA-based enterprise and cloud applications and CXOs and Project managers who make decisions on undertaking SOA projects involving enterprise and cloud applications. · Provides insights on concepts of SOA and cloud computing that can be put to immediate use for creating transformational impact. · Includes detailed description (and code) to enable architects, designers and developers to build SOA applications on Java and .NET platforms. · Offers a comprehensive and structured set of reference models and techniques for custom-built enterprise and cloud applications that can be readily applied by system integration companies and end-user organizations to address customer needs. · Presents both concepts and technology detail in addressing the IT challenges faced by organizations on their business transformation journey with SOA and cloud computing. About The Book: This book is targeted at practitioners who wish to get insights into developing SOA solutions. Software architects, designers, developers, project managers and consultants can benefit significantly from this book. At the same time, beginners

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can also get an understanding of the concepts and how SOA based solutions are developed in practice today. Strawman architecture for Enterprise-wide SOA and reference architectures for SOA based applications can serve to be very convenient starting points for anyone wanting to recommend or develop SOA solution. Designers can follow the methodologies outlined for service design in this book and come up with services model for their applications. The best practices identified through executing a number of SOA projects, provide the much needed guidance to project teams. New to the second edition: Keeping in mind the feedback received and the changes taking place in technology and in IT industry, the following enhancements are included. 1) Introduce Software Engineering as Chapter 1 - One of the points given as feedback for the first edition is that there are several practicing developers, testers and project/program managers who are interested in SOA but do not have the necessary background or experience in Software Engineering. Accordingly, Software Engineering Principles has been added as the first chapter. 2) Cloud Computing - Since the launch of the book, Cloud computing and services based on the Cloud (internet cloud) have emerged as major trends related to deploying and leveraging of services. Therefore, separate chapters on Cloud Computing Concepts, Cloud Computing Platforms and SOA with Cloud Services have been included.

Cloud Enterprise Architecture examines enterprise architecture (EA) in the context of the surging popularity of Cloud computing. It explains the different kinds of desired transformations the architectural blocks of EA undergo in light of this strategically significant convergence. Chapters cover each of the contributing architectures of EA—business, information, application, integration, security, and technology—illustrating the current and impending implications of the

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Cloud on each. Discussing the implications of the Cloud paradigm on EA, the book details the perceptible and positive changes that will affect EA design, governance, strategy, management, and sustenance. The author ties these topics together with chapters on Cloud integration and composition architecture. He also examines the Enterprise Cloud, Federated Clouds, and the vision to establish the InterCloud. Laying out a comprehensive strategy for planning and executing Cloud-inspired transformations, the book: Explains how the Cloud changes and affects enterprise architecture design, governance, strategy, management, and sustenance Presents helpful information on next-generation Cloud computing Describes additional architectural types such as enterprise-scale integration, security, management, and governance architectures This book is an ideal resource for enterprise architects, Cloud evangelists and enthusiasts, and Cloud application and service architects. Cloud center administrators, Cloud business executives, managers, and analysts will also find the book helpful and inspirational while formulating appropriate mechanisms and schemes for sound modernization and migration of traditional applications to Cloud infrastructures and platforms. 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.

A must-have guide for all companies undertaking service-oriented architecture (SOA) and IT

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governance Service-Oriented Architecture Governance for the Services Driven Enterprise expertly covers the business, organizational, process, compliance, security, and technology facets of SOA and IT governance. This book provides a comprehensive enterprise view of governance from a strategic and tactical perspective, as well as modeling and planning tools to help evolve a company's ongoing governance requirements. Written by Eric Marks and the industry's leading SOA authorities, this essential book provides a refreshing business-driven perspective to SOA and IT governance.

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 how 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.

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Learn to apply the significant promise of SOA to overcome the formidable challenges of distributed enterprise development.

Web Oriented Architecture (WOA) is a style of software architecture that extends service-oriented architecture (SOA) to web based applications, and is sometimes considered to be a light-weight version of SOA. WOA is also aimed at maximizing the browser and server interactions by use of technologies such as REST and POX. This book is your ultimate resource for Web-Oriented Architecture. Here you will find the most up-to-date information, analysis, background and everything you need to know. In easy to read chapters, with extensive references and links to get you to know all there is to know about Web-Oriented Architecture right away, covering: Web-oriented architecture, Adaptive Services Grid, Application fabrication, B2B Gateway, Barracuda Networks, Boomerang Software Framework, Business Process Network, Canonical Protocol Pattern, Canonical Schema pattern, Communications-enabled application, Composite application, DataNucleus, Denodo, Differentiated service, Digital Nervous System, Domain Inventory Pattern, Enterprise Inventory, Enterprise service bus, Enterprise Service Layer, Entity Abstraction Pattern, Event-driven architecture, Event-Driven Messaging, Event-driven SOA, Experticity, Freightgate, FuseSource Corp., Intel SOA Products Division, JackBe, Logic Centralization Pattern, Loose coupling,

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Machine-to-Machine, Midas Kapiti, Multitenancy, Mushroom Networks, MVaaS, Net-Centric Enterprise Services, Network-Centric Service-Oriented Enterprise (NCSOE), OASIS SOA Reference Model, Open Knowledge Initiative, Open Mashup Alliance, Open Service Interface Definitions, Opti-Time Company, Oslo (Microsoft), Postini, Reliable messaging, S-RAMP, SAP Enterprise Architecture Framework, Semantic service-oriented architecture, SEMCI, Service (systems architecture), Service Abstraction, Service Autonomy Principle, Service Capability Interaction Manager, Service Component Architecture, Service Composability Principle, Service Data Objects, Service Discoverability Principle, Service discovery, Service layer, Service Layers Pattern, Service Loose Coupling, Service Normalization Pattern, Service Oriented Architecture Fundamentals, Service Refactoring, Service Reusability Principle, Service Statelessness Principle, Service-orientation, Service-Orientation Design Principles, Service-oriented architecture, Service-oriented architecture implementation framework, Service-Oriented Architecture Types, Service-Oriented Development of Applications, Service-oriented device architecture, Service-oriented infrastructure, Service-oriented modeling, Service-oriented programming, Service-oriented transformation, Services computing, Shared services, SOA environment, SOA Governance, SOA Security, SOALIB, SoaML,

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Nsite Software (Platform as a Service), Software as a service, Standardized Service Contract, TOA Technologies, Utility Abstraction Pattern, Web Service Choreography, Apache ActiveMQ, Apache Camel, Apache Qpid, Apache ServiceMix, Apache Synapse, Apache Tuscany, Apatar, Application Response Measurement, Boot image control, Comparison of business integration software, Canonical Model, Corticon, Data element, E-Biz Integrator, Enterprise application integration, Enterprise content management, Enterprise Integration Patterns, Enterprise messaging system, EntireX, Fuse ESB, Fuse Message Broker, GNU Enterprise, Governance Interoperability Framework, Guarana DSL, Hoox, IgniteXML, IGrafx, Information silo, Integrated software, Integration Objects, ISIS Papyrus, JBoss Enterprise SOA Platform, Jitterbit Integration Server, Message-oriented middleware, Metaserver, Microsoft Enterprise Library, Openadaptor, OpenBRR, OpenGate...and much more This book explains in-depth the real drivers and workings of Web-Oriented Architecture. It reduces the risk of your technology, time and resources investment decisions by enabling you to compare your understanding of Web-Oriented Architecture with the objectivity of experienced professionals.

Praise for Service-Oriented Architecture "This book provides a superb overview of the SOA topic. Marks and Bell provide practical guidance across the entire

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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,

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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

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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

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

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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

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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 Guide to 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

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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.

Feeling overwhelmed by the buzz about SOA—service oriented architecture? Take heart! Service Oriented Architecture For Dummies, 2nd Edition makes it easy to understand, plan, and implement the latest SOA solutions for your business. Whether you're the IT person responsible for developing SOA or the executive who's trying to get a handle on the concept, Service Oriented Architecture For Dummies, 2nd Edition will help you understand what SOA is,

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why it's important, and how you can make the most of it. You'll find out about the business and financial aspects of SOA, how to decide if you need it, and what it can mean to your bottom line. Discover how to: Identify the main components of SOA and how they work to create business processes Create reusable, flexible systems and avoid common pitfalls Deconstruct business processes and applications to identify their components, then put them together in new ways Construct SOA business applications for maximum adaptability Confirm quality in a situation that's difficult to test, and assure the quality and consistency of your data Develop a governance strategy for SOA based on your company's philosophy and culture Work with XML and understand how it's used in SOA Maximize the benefits of unified communications Understand software ecosystems, rich interfaces, and the development lifecycle Packed with real-life case studies illustrating how SOA has been applied in a variety of industries, Service Oriented Architecture For Dummies, 2nd Edition demystifies one of today's hottest business tools.

A sneak peek at up-and-coming trends in IT, a multidimensional vision for achieving business agility through agile architectures The Agile Architecture Revolution places IT trends into the context of Enterprise Architecture, reinventing Enterprise Architecture to support continuous business transformation. It focuses on the challenges of large organizations, while placing

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such organizations into the broader business ecosystem that includes small and midsize organizations as well as startups. Organizes the important trends that are facing technology in businesses and public sector organizations today and over the next several years Presents the five broad organizing principles called Supertrends: location independence, global cubicle, democratization of technology, deep interoperability, and complex systems engineering Provides a new perspective on service-oriented architecture in conjunction with architectural approaches to cloud computing and mobile technologies that explain how organizations can achieve better business visibility through IT and enterprise architecture Laying out a multidimensional vision for achieving agile architectures, this book discusses the crisis points that promise sudden, transformative change, unraveling how organizations' spending on IT will continue to undergo radical change over the next ten years.

Large IT organizations increasingly face the challenge of integrating various web services, applications, and other technologies into a single network. The solution to finding a meaningful large-scale architecture that is capable of spanning a global enterprise appears to have been met in ESB, or Enterprise Service Bus. Rather than conform to the hub-and-spoke architecture of traditional enterprise application integration products, ESB provides a highly distributed approach to integration, with unique capabilities that allow individual departments or business units to build out their integration projects in incremental, digestible chunks, maintaining their own local control and autonomy, while still being able to connect together each integration project into a larger, more global integration fabric, or grid. Enterprise Service Bus offers a thorough introduction and overview for systems architects, system integrators, technical project leads, and CTO/CIO level managers who need to understand, assess, and evaluate this new

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approach. Written by Dave Chappell, one of the best known and authoritative voices in the field of enterprise middleware and standards-based integration, the book drills down into the technical details of the major components of ESB, showing how it can utilize an event-driven SOA to bring a variety of enterprise applications and services built on J2EE, .NET, C/C++, and other legacy environments into the reach of the everyday IT professional. With Enterprise Service Bus, readers become well versed in the problems faced by IT organizations today, gaining an understanding of how current technology deficiencies impact business issues. Through the study of real-world use cases and integration patterns drawn from several industries using ESB--including Telcos, financial services, retail, B2B exchanges, energy, manufacturing, and more--the book clearly and coherently outlines the benefits of moving toward this integration strategy. The book also compares ESB to other integration architectures, contrasting their inherent strengths and limitations. If you are charged with understanding, assessing, or implementing an integration architecture, Enterprise Service Bus will provide the straightforward information you need to draw your conclusions about this important disruptive technology.

The first and only book that provides a patterns catalogue for Service Oriented Architecture. 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

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(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.

Enterprise SOA Service-oriented Architecture Best Practices Prentice Hall Professional 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.

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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

Successfully implement your own enterprise integration architecture using the Trivadis Integration Architecture Blueprint with this book and eBook.

Provides information on how to model and design service-oriented SOA platforms.

Service-oriented architecture (SOA) is a flexible set of design principles used during the phases of systems development and integration in computing. A system based on a SOA will package functionality as a suite of interoperable services that can be used within multiple, separate systems from several business domains. SOA also generally provides a way for consumers of services, such as web-based applications, to be aware of available SOA-based services. For example, several disparate departments within a company may develop and deploy SOA services in different implementation languages; their respective clients will benefit from a well understood, well defined interface to access them. XML is commonly used for interfacing with SOA services, though this is not required. This book is your ultimate resource for Service-oriented architecture (SOA). Here you will find the most up-to-date information, analysis, background and everything you need to know. In easy to read chapters, with extensive

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references and links to get you to know all there is to know about Service-oriented architecture (SOA) right away, covering: Service-oriented architecture, Apache ActiveMQ, Apache Camel, Apache Qpid, Apache ServiceMix, Apache Synapse, Apache Tuscany, Apatar, Application Response Measurement, Boot image control, Comparison of business integration software, Canonical Model, Communications-enabled application, Corticon, Data element, DataNucleus, E-Biz Integrator, Enterprise application integration, Enterprise content management, Enterprise Integration Patterns, Enterprise messaging system, Enterprise service bus, EntireX, Event-driven architecture, Event-driven SOA, FuseSource Corp., Fuse ESB, Fuse Message Broker, GNU Enterprise, Governance Interoperability Framework, Guarana DSL, Hoox, IgniteXML, IGrafX, Information silo, Integrated software, Integration Objects, ISIS Papyrus, JBoss Enterprise SOA Platform, Jitterbit Integration Server, Loose coupling, Message-oriented middleware, Metaserver, Microsoft Enterprise Library, Openadaptor, OpenBRR, OpenGate, Oracle Enterprise Service Bus, Oracle SOA Suite, Orchestration (computing), Pervasive business intelligence, Petals ESB, Sarvega, Search-based application, SEEBURGER, Semantic service-oriented architecture, Semantic translation, SEMCI, Service Component Architecture, Service Oriented Architecture Fundamentals, Service-oriented architecture

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implementation framework, SOALIB, Talend, ThoughtWorks, Total cost of ownership, Tryton, Universal integration platform, Verastream Host Integrator, Virtuoso Universal Server, Web-oriented architecture, WebORB Integration Server, While You Were Out (Cloud application), WS-CAF, Adaptive Services Grid, Application fabrication, B2B Gateway, Barracuda Networks, Boomerang Software Framework, Business Process Network, Canonical Protocol Pattern, Canonical Schema pattern, Composite application, Denodo, Differentiated service, Digital Nervous System, Domain Inventory Pattern, Enterprise Inventory, Enterprise Service Layer, Entity Abstraction Pattern, Event-Driven Messaging, Experticity, Freightgate, Intel SOA Products Division, JackBe, Logic Centralization Pattern, Machine-to-Machine, Midas Kapiti, Multitenancy, Mushroom Networks, MVaaS, Net-Centric Enterprise Services, Network-Centric Service-Oriented Enterprise (NC SOE), OASIS SOA Reference Model, Open Knowledge Initiative, Open Mashup Alliance, Open Service Interface Definitions, Opti-Time Company, Oslo (Microsoft), Postini, Reliable messaging, S-RAMP, SAP Enterprise Architecture Framework, Service (systems architecture), Service Abstraction, Service Autonomy Principle...and much more This book explains in-depth the real drivers and workings of Service-oriented architecture (SOA). It reduces the risk of your technology, time and resources investment decisions by

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enabling you to compare your understanding of Service-oriented architecture (SOA) with the objectivity of experienced professionals.

Discover how to ease interoperability and integration issues with case-study driven guide to SOA and EDA • • Combines both the theory of Event Driven Architecture (EDA) with a practical look at getting an EDA up and running in the real world. • Provides case studies that illustrate ways to identify the ideal use of an EDA, or a partial EDA. • Instills good sense of when to use an EDA approach and when not to. An Event-Driven Architecture is one that has the ability to detect events and react to them. As Manas Deb put in VisualStudio Magazine, An EDA is an 'application or system architecture that reacts intelligently to changes or nonchanges in conditions.' A simple example of an event-driven system is the thermostat which turns the heat on or off based on its programmed reaction to an event (the change in temperature). EDA is not a new idea, but has been very difficult to build and implement. it is now receiving renewed and intense interest as a result of the advent of open standards And The breakthroughs in system interoperability from SOAs. This book establishes the SOA-Event Driven Architecture (EDA) connection and lays out the specific ways in which SOA powers the EDA. While simple in context, The realities of bending SOAP Web Services into a functioning EDA are challenging and complex. The authors, all

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experts in this field, explain the theories and then puts the reader on track for finding the right use of EDA in their organization and then getting it started. Diploma Thesis from the year 2006 in the subject Computer Science - Commercial Information Technology, grade: 1,3, University of Bamberg, 92 entries in the bibliography, language: English, abstract: In today's companies changes happen very fast. On the one hand more and more new technologies are arising, on the other hand business processes have to change because of mergers and acquisitions, new regularities, changing customer requirements and so forth. As business processes are supported by information technology, information technology has to cope with both types of changes. From a business perspective on-demand adaptation of information technology to business is required. Service-oriented architecture (SOA) is currently discussed as an opportunity to better adapt to those changes.

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

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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.

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There has never been a Service Oriented Architecture Guide like this. Service Oriented Architecture 68 Success Secrets is not about the ins and outs of Service Oriented Architecture. Instead, it answers the top 68 questions that we are asked and those we come across in our forums, consultancy and education programs. It tells you exactly how to deal with those questions, with tips that have never before been offered in print. Get the information you need--fast! This comprehensive guide offers a thorough view of key knowledge and detailed insight. This Guide introduces everything you want to know to be successful with Service Oriented Architecture. A quick look inside of the subjects covered: Service oriented architecture, SOA and DNS Together, SOA Watch, How to Get the SOA Exam Results, SOA Developer: What You Need To Put In Your Resume, SOA Software, Using ITIL as a Framework, Why Creating A Dummy SOA Is Important, Service Oriented Architecture Webcast, Enterprise Service Bus Integration, What is ISO 20000?, Progressive Insurance and Service Oriented Architecture, Service Oriented Architecture SOA Microsoft, Oracle SOA: Delivering Flexibility, SOA And Compatibility, Read about SOA on a White Paper, The Services of SOA, Defining SOA, Soa advantages challenges, Governance in SOA, Visualize with an SOA Diagram, Business Intelligence Platform: Enabling Companies to Make Sound Business Decisions, Service Counts in SOA

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Enterprise Architecture, Important aspects of SOA architecture (for the cloud), Get the Latest SOA News, Service Oriented Architecture - (SOA in general), (SOA) Service Oriented Architecture: Understanding The True Definition, The Best SOA Strategy, Service Oriented Architecture Vulnerability Threat Attack, Interoperability of the Website Branches, SOA Security (and Governance), Improve Your Business With IBM SOA, SOA Conference: Mark the Dates!, DETAILS DEFINE SOA WEB MAIL, Improve Your Productivity Through SOA Software, SOA infrastructure (for the Cloud) vs. traditional IT architecture, Sap SOA, Farmers Insurance Service Oriented Architecture, Web services soa, Service Oriented Architecture Vulnerability Threat, Service oriented architecture vulnerability attack, UNDERSTANDING .NET SOA, How To Be An SOA Associate, An Introduction to SOA Tutorial Basics, SOA Security In Action, Enterprise SOA, The Job Description Of SOA Architect, Service Oriented Architecture: Creating a Virtual Global Village, SOA Testing Needed to Retain Performance and Reliability Standards, SOA Walkthrough, How can Cloud Computing and SOA be leveraged together?, What Does an SOA Actuary Really Do?, Info (Data) -Centric SOA - How it differs from task-oriented (process) SOA, and much more...

Market_Desc: · Students, Software Engineers, Designers, Architects, Business

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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

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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.

While business functions such as manufacturing, operations, and marketing often utilize various software applications, they tend to operate without the ability to interact with each other and exchange data. This provides a challenge to gain an enterprise-wide view of a business and to assist real-time decision making.

Service-Driven Approaches to Architecture and Enterprise Integration addresses the issues of integrating assorted software applications and systems by using a service driven approach. Supporting the dynamics of business needs, this book highlights the tools, techniques, and governance aspects of design, and implements cost-effective enterprise integration solutions. It is a valuable source of information for software architects, SOA practitioners, and software engineers as well as researchers and students in pursuit of extensible and agile software design.

This book will provide answers to the most common questions that face

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enterprise leaders concerning service oriented architecture development lifecycle initiatives. It is a guide for service-oriented projects. The tentative chapters are: (1) Introduction to Service Modeling; (2) Service Polymorphism; (3) Service Typing and Service Structure Model; (4) Service Development Lifecycle Model; (5) Service Conceptualization; (6) Service Discovery and Analysis; (7) Business Service Architecture; (8) Service Design and Realization; (9) Service Architecture Conceptualization; (10) Service Architecture Modeling.

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

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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-

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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

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complemented by resources on the developerWorks Web site on ibm.com. Icons throughout the book alert the reader to these valuable resources.

The Expert, Practical Guide to Succeeding with SOA in the Enterprise In Executing SOA, four experienced SOA implementers share realistic, proven, “from-the-trenches” guidance for successfully delivering on even the largest and most complex SOA initiative. This book follows up where the authors’ best-selling Service-Oriented Architecture Compass left off, showing how to overcome key obstacles to successful SOA implementation and identifying best practices for all facets of execution—technical, organizational, and human. Among the issues it addresses: introducing a services discipline that supports collaboration and information process sharing; integrating services with preexisting technology assets and strategies; choosing the right roles for new tools; shifting culture, governance, and architecture; and bringing greater agility to the entire organizational lifecycle, not just isolated projects. Executing SOA is an indispensable resource for every enterprise architect, technical manager, and IT leader tasked with driving value from SOA in complex environments. Coverage includes

- Implementing SOA governance that reflects the organization’s strategic and business focus
- Running SOA projects successfully: practical guidelines and proven methodologies around service modeling and design
- Leveraging reusable assets: making the most of your SOA repository
- Enabling the architect to choose the correct tools and products containing the features required to execute on the SOA method for service design and implementation
- Defining information services to get the right information to the right people at the right time
- Integrating SOA with Web 2.0 and other innovative products and solutions
- Providing highly usable human interfaces in SOA environments

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Build a high-value dynamic enterprise by leveraging SOA and Business Process Management together! • • A pragmatic, step-by-step tutorial: achieve breakthrough business flexibility by integrating enterprise architecture with modularized dynamic business processes. • Directly addresses BPM, one of the world's fastest-growing software markets • By Marc Fiammante, IBM's worldwide chief architect for SOA engagements: draws on his unsurpassed experience driving value from SOA and BPM Thousands of enterprises have adopted SOA based on its promise to help them respond more rapidly to changing business requirements by composing new solutions from existing business services. To deliver on this promise, however, companies need to integrate a solid Business Process Management (BPM) plan into their SOA initiatives. Dynamic SOA and BPM offers a pragmatic, efficient approach for doing so. Top IBM SOA architect Marc Fiammante walks readers step-by-step through integrating BPM and SOA, and using them together to build a more flexible, dynamic enterprise. Throughout, he emphasizes hands-on solutions based on his unsurpassed expertise supporting dozens of enterprise SOA implementations. Coverage includes: • • Moving from simplified integration to dynamic processes. • Streamlining enterprise architecture to support BPM. • Implementing dynamic enterprise information and business processes. • Tooling for design and development in a dynamic enterprise. • Managing and monitoring a dynamic environment, and much more Practical from start to finish, Dynamic SOA and BPM squarely addresses two of the most critical challenges today's IT organizations face: implementing BPM as effectively as possible, and driving more value from their SOA investments.

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

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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.

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.

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

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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.

Let's Design On-Demand Business Model ?DESCRIPTION Service-Oriented Architecture (SOA) is an architectural approach that can be shared and reused. The book proposes a service-based architecture approach to design an adaptive business model for small enterprises. It presents an ad-hoc model which is based on five layered SOA architecture that can integrate all activities comprising Supply Chain Management (SCM), Customer Relationship Management (CRM), Technical and Enterprise applications tools, and hence, it best suits the SME requirements. This book covers the challenges that SMEs face to compete with large enterprises. It also compares the proposed model with traditional ERP systems and other similar approaches. It is found that the SOA model is efficient, cost-effective, and competent with similar existing solutions. There is always a need to know the scope and size of the work involved while developing a service or deriving any application from service-based

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model; this book will help in determining the cost and effort for such projects. KEY FEATURES

- Guide to investigate series of processes/activities (value chain activities) required in Small and Medium size Enterprises (SME).
- Guide for organizations to identify which SOA infrastructure will be needed to build service-based applications for themselves.
- Guide for organizations to test the SOA model in order to meet the changing on-demand business requirements and ensure high level of security and governance.
- Guide to handle interoperability between different vendor infrastructures.

WHAT WILL YOU LEARN The book will cover the detailed study of service-oriented model from the inception of the idea to its final implementation. You will be able to understand the basics components of service-oriented architecture. You will learn how to develop SOA based model and will realize that most of the interoperability problems visible at the conceptual level could be overcome. The successful simulation of integration among business value chain activities by using the service-oriented methodology can be served as guidelines for researchers, system designers, and system stakeholders to obtain integrated and accuracy output information.

WHO THIS BOOK IS FOR Anyone who is interested to gain knowledge about the architecture of service-based model and would like to pursue research in this domain.

TABLE OF CONTENTS

1. Service-Oriented Architecture – an Introduction
2. Review of Service-Oriented Systems
3. Research Methodologies
4. Design and Implementation of an SOA Model – A Case Study
5. Study of the inhibiting and success factors in SOA design and implementation
6. Testing of Service-Based Model

Aggressively being adopted by organizations in all markets, service-oriented architecture (SOA) is a framework enabling business process improvement for gaining competitive

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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 is also benefits those new to business process management, enterprise architecture, and information systems and need to understand SOA, its business drivers, and its methodology.

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