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Service Oriented Architecture (SOA) For Dummies SOA Source Book Service-Oriented Architecture Service-Oriented Architecture Service Oriented Architecture Field Guide for Executives Enterprise Architecture A to Z Implementing SOA. Understanding Service-Oriented Architecture Service-oriented Architecture Implementing SOA Service Oriented Architecture For Dummies Service-Oriented Architecture Succeeding with SOA CICS and SOA: Architecture and Integration Choices Executing SOA Enterprise SOA Achieving Service-Oriented Architecture The Impact of Service Oriented Architecture Adoption on Organizations 100 SOA Questions: Asked and Answered Service --Oriented Architecture Service Oriented Architecture (SOA) For Dummies Sustainable IT Architecture Applied SOA SOA Design Patterns Service-oriented Architecture for Enterprise Applications Service Oriented Architecture - SOA - Handbook 100 SOA Questions Service-Driven Approaches to Architecture and Enterprise Integration Service-Oriented Architecture Governance for the Services Driven Enterprise SOA Principles of Service Design (paperback) Enterprise SOA Service-Oriented Architecture (SOA) Compass: Business Value, Planning, and Enterprise Roadmap SOA in Practice Event-Driven Architecture Process-Driven SOA Service Orientated Architecture Demystified Emerging Trends in the Evolution of Service-Oriented and Enterprise Architectures SOA and Web Services Interface Design The Agile Architecture Revolution Service Oriented Architecture Soa Analys

Service Oriented Architecture (SOA) For Dummies 2009-02-18 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 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

SOA Source Book 2009-04-04 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

Service-Oriented Architecture 2016-12-23 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 services and microservices chapter 7 analysis and modeling with rest services and microservices chapter 8 service api and contract design with services chapter 9 service api and contract design with rest services and microservices chapter 10 service api and contract versioning with services and rest services part iii appendices appendix a service orientation principles reference appendix b rest constraints reference appendix c soa design patterns reference appendix d the annotated soa manifesto

Service-Oriented Architecture 2007-11-19 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 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

Service Oriented Architecture Field Guide for Executives 2008-06-30 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

Enterprise Architecture A to Z 2008-06-19 enterprise architecture a to z examines cost saving trends in architecture planning administration and management the text begins by evaluating the role of enterprise architecture planning and service oriented architecture soa modeling it provides an extensive review of the most widely deployed architecture framework models including the open group architecture and zachman architectural frameworks as well as formal architecture standards the first part of the text focuses on the upper layers of the architecture framework while the second part focuses on the technology architecture additional coverage discusses ethernet wan internet communication technologies broadband and chargeback models

Implementing SOA. 2008 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 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 Ê table of contents 1 service oriented architecture Ð an introduction 2 review of service oriented systemsÊ 3 research methodologiesÊ 4 design and implementation of an soa model Ð a case studyÊ 5 study of the inhibiting and success factors in soa design and implementationÊ 6 testing of service based model

Understanding Service-Oriented Architecture 2020-01-14 service oriented architecture is no longer an exclusive discipline practiced only by expensive consultants with this book s help readers can plan architect and implement their own service oriented environments efficiently and cost effectively this book comes with a variety of resources including a complete glossary examples articles and current industry information

Service-oriented Architecture 2005 putting service oriented architecture soa into practice this book is a must have for enterprise architects implementing soa through practical examples it explains the relationship between business requirements business process design and service architecture by tying the soa implementation directly to business value it reveals the key to ongoing success and funding maja tibbling lead enterprise architect con way inc while there are other books on architecture and the implementation of esb soa and related technologies this new book uniquely captures the knowledge and experience of the real world it shows how you can transform requirements and vision into solid repeatable and value added architectures i heartily recommend it mark wencek svp consulting services alliances ultimo software solutions inc in his first book succeeding with soa paul brown explained that if enterprise goals are to be met business processes and information systems must be designed together as parts of a total architecture in this second book implementing soa he guides you through the entire process of designing and developing a successful total architecture at both project and enterprise levels drawing on his own extensive experience he provides best practices for creating services and leveraging them to create robust and flexible soa solutions coverage includes evolving the enterprise architecture towards an soa while continuing to deliver business value on a project by project basis understanding the fundamentals of soa and distributed systems the dominant architectural issues and the design patterns for addressing them understanding the distinct roles of project and enterprise architects and how they must collaborate to create an soa understanding the need for a comprehensive total architecture approach that encompasses business processes people systems data and infrastructure understanding the strategies and tradeoffs for implementing robust secure high performance and high availability solutions understanding how to incorporate business process management bpm and business process monitoring into the enterprise architecture whether you re defining an enterprise architecture or delivering individual soa projects this book will give you the practical advice you need to get the job done

Implementing SOA 2008-04-09 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

Service Oriented Architecture For Dummies 2007-02-05 praise for service oriented architecture this book provides a superb overview of the soa topic marks and bell provide practical guidance across the entire soa life cycle from business imperatives and motivations to the post deployment business and technical metrics to consider with this book marks and bell demonstrate a unique ability to take the complex dynamics of soa and through an eloquent set of metaphors models and principles provide an understandable and insightful how to manual for both technical and business executives this will become a required handbook for any organization implementing soa dan bertrand enterprise technology officer eds fellow eds corporation a fundamental breakthrough in the business and technology perspectives of soa this book belongs in every software developer architect and it executive library marks and bell demonstrate a creative and practical approach to building complex service oriented systems i especially liked the hands on perspective brought to multiple aspects of soa a must have guide in the technology turbulence of the future ariel aloni chief technology officer sungard data management solutions this outstanding text gets straight to the heart of the matter cutting through the hyperbole and discussing how to drive real business value through soa it will certainly impact my behavior our governance models and subsequently the successful business outcomes we derive as we continue to embrace soa a must read for battle scarred soa veterans and fledgling architects alike christopher crowhurst vice president and chief architect thomson learning too often soa has been perceived as all about the technology standards technology stacks operational monitoring and the like in this book marks and bell expand beyond the technology to provide a refreshing business driven perspective to soa connecting the dots between business requirements architecture and development and operations and overlaying these perspectives with tried and true governance techniques to keep soa initiatives on track a must read for those leading the charge to adopt soa within their enterprise brent carlson chief technology officer logiclibrary and coauthor of san francisco design patterns blueprints for business software marks and bell have captured a wealth of practical experience and lessons learned in what has become the hottest topic in software development in this book they explain in detail what works and what does not from procedural issues to technical challenges this book is an invaluable reference for organizations seeking the benefits of soas dr jeffrey s poulin system architect lockheed martin and author of measuring software reuse principles practices and economic models one of the last things companies often consider when implementing a business solution such as soa is the impact on people marks and bell provide an in depth look at what has to change from a process standpoint to make any soa implementation a success a great read for those considering to embark on an enterprise soa and looking for the right mix of people process and products alan himler vice president of product management and marketing logiclibrary soa is a complex topic and a complex organizational goal service oriented architecture a planning and implementation guide for business and technology shows you how to plan implement and achieve soa value through its prescriptive approach joining the business and strategic perspective to the technical and architectural perspective applicable to all industries technology platforms and operating environments this innovative book provides you with the essential strategies to drive greater value from your soa and realize your business goals

Service-Oriented Architecture 2008-11-03 getting a desired business return on your service oriented architecture soa investment today business processes and information systems are so tightly intertwined that they must be designed together as parts of a total architecture to realize enterprise goals in succeeding with soa paul brown shows how service oriented architectures soas provide the best structure for such integration clean well defined interfaces between collaborating entities but even soas need to be correctly understood and implemented to avoid common failures drawing on decades of experience dr brown explains what business managers and it architects absolutely need to know including critical success factors to undertake this essential work coverage includes setting clear and reasonable expectations for soa s benefits understanding why conventional project management techniques don't scale to today's enterprise wide projects defining a living roadmap for developing services based on business priorities establishing coherent leadership that brings together business executives it leaders and the soa architecture group using total architecture synthesis tas to rapidly develop business processes and information systems together understanding the central role of architecture and making sure the right architectural decisions get made whether you're a business or technical leader this book will help you plan organize and execute soa initiatives that meet or exceed their goals now and for years to come

Succeeding with SOA 2007-04-24 the service oriented architecture soa style of integration involves breaking an application down into common repeatable services that can be used by other applications both internal and external in an organization independent of the computing platforms on which the business and its partners rely in recent years cics has added a variety of support for soa and now provides near seamless connectivity with other it environments this ibm redbooks publication helps it architects to select plan and design solutions that integrate cics applications as service providers and requesters first we provide an introduction to cics service enablement and introduce the architectural choices and technologies on which a cics soa solution can be based we continue with an in depth analysis of how to meet functional and non

functional requirements in the areas of application interface security transactional scope high availability and scalability finally we document three integration scenarios to illustrate how these technologies have been used by customers to build robust cics integration solutions

CICS and SOA: Architecture and Integration Choices 2012-03-26 executing soa is an indispensable resource for every enterprise architect technical manager and it leader tasked with driving value from soa in complex environments book jacket

Executing SOA 2008 learn to apply the significant promise of soa to overcome the formidable challenges of distributed enterprise development

Enterprise SOA 2005 a complete comprehensive methodology and framework for adopting and managing a successful service oriented architecture environment achieving service oriented architecture helps to set up an soa architecture practice defining the policies procedures and standards that apply not just to it developers but to the entire corporation as it relates to business applications why a new architectural approach is necessary for your business to achieve all the value soa has to offer focuses on setting up an enterprise architecture practice for service oriented architecture discusses the implementation and governance processes for soa defines and describes an overall architectural framework for managing soa assets at an enterprise architecture level shows how to set up and run an soa enterprise architecture practice using the methodology and framework presented defining how an architecture practice can transform itself and your corporation to maximize the benefits of the soa approach achieving service oriented architecture provides a pragmatic enterprise architecture approach and framework for implementing and managing service oriented architecture from a business organization and business practices perspective note cd rom dvd and other supplementary materials are not included as part of ebook file

Achieving Service-Oriented Architecture 2010-04-20 this book describes service oriented architecture soa and the significant factors which affect its adoption such as governance strategy complexity return on investment roi business and it alignment culture and communication costs and security the study on which this book is based involved a quantitative analysis to investigate the influential factors for adopting soa paving the way to further research in the field

The Impact of Service Oriented Architecture Adoption on Organizations 2019-02-22 100 soa questions brings together authoritative answers to the most crucial questions business technical and architectural decision makers ask about soa it draws on the immense experience of two soa experts who ve participated in more than 100 soa projects in the roles of architect designer consultant technical manager and strategist organized to reflect the open group s open services integration maturity model osimm this book provides fast convenient access to information about all facets of soa planning implementation management and utilization this book will be an invaluable resource for all executives architects and practitioners who have just started their soa journey or are well underway in depth answers to questions about soa topics such as soa concepts and planning business strategy organization and support governance methods and techniques applications architecture information management infrastructure the future of soa 100 soa questions answers the most critical questions executives and practitioners have about soa kerrie holley and dr ali arsanjani draw on their unsurpassed experience from hundreds of soa projects conducted worldwide why should business stakeholders care about soa what is the return on investment roi of soa adoption what is flexibility and how does soa deliver on this promise should service development be centralized in service centers how should services be identified or specified to maximize reuse how do soa methods reduce the lifetime costs for applications how can organizational barriers to soa success be removed what changes with application development when soa is introduced how does architecture change as a result of soa adoption what is a canonical message model how does the soa infrastructure support events what are context aware services

100 SOA Questions: Asked and Answered 2010 service oriented architecture is a comprehensive textbook for teaching and learning soa concepts assuming no prior knowledge of programming languages on the part of the reader this book contains a rich collection of step by step procedures to help one master the services features student friendly written in a clear concise and lucid manner a sincere attempt has been made to introduce the basic concepts of services each chapter is organized into small sections that address key topics emphasis on in depth coverage and good style in programming aims to motivate the unmotivated abundance of programming examples with sample output explains the philosophy behind the creation of the concepts and its various features covers both elementary as well as advanced concepts helps to understand concepts by providing diagrams and program listings wherever necessary logical flow of concepts starting from preliminary topics to the advanced topics programs for each concept to illustrate its significance and scope complete explanation of each program with emphasis on the core segment

Service --Oriented Architecture 2015 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 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 is 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 is 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

Service Oriented Architecture (SOA) For Dummies 2009-01-20 this book focuses on service oriented architecture soa the basis of sustainable and more agile it systems that are able to adapt themselves to new trends and manage processes involving a third party the discussion is based on the public praxeme method and features a number of examples taken from large soa projects which were used to rewrite the information systems of an insurance company as such decision makers creators of it systems programmers and computer scientists as well as those who will use these new developments will find this a useful resource

Sustainable IT Architecture 2013-03-01 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

Applied SOA 2012-07-02 in cooperation with experts and practitioners throughout the soa community best selling author thomas erl brings together the de facto catalog of design patterns for soa and service orientation more than three years in development and subjected to numerous industry reviews the 85 patterns in this full color book provide the most successful and proven design techniques to overcoming the most common and critical problems to achieving modern day soa through numerous examples individually documented pattern profiles and over 400 color illustrations this book provides in depth coverage of patterns for the design implementation and governance of service inventories collections of services representing individual service portfolios that can be independently modeled designed and evolved patterns specific to service level architecture which pertain to a wide range of design areas including contract design security legacy encapsulation reliability scalability and a variety of implementation and governance issues service composition patterns that address the many aspects associated with combining services into aggregate distributed solutions including topics such as runtime messaging and message design inter service security controls and transformation compound patterns such as enterprise service bus and orchestration and recommended pattern application sequences that establish foundational processes the book begins by establishing soa types that are referenced throughout the patterns and then form the basis of a final chapter that discusses the architectural impact of service oriented computing in general these chapters bookend the pattern catalog to provide a clear link between soa design patterns the strategic goals of service oriented computing different soa types and the service orientation design paradigm this book series is further supported by a series of resources sites including soabooks.com soaspecs.com soapatterns.org soamag.com and soaposters.com

SOA Design Patterns 2008-12-31 market desc students software engineers designers architects business analysts and consultants project program managers and it consultants cxos special features first book that focuses on architecture design and development of enterprise applications based on service oriented architecture caters to the needs of students who need to understand the concepts of soa architects designers and developers who build soa based enterprise applications and cxos and project managers who make decisions on undertaking soa projects includes detailed description and code to enable architects designers and developers to build soa applications on java and net platforms soa is one of key areas on which it services product and end user companies will be building substantial capability atleast until 2011 this book enables project teams in these companies to use it as a text book for their training programs on soa about the book service oriented architecture is a book that emphasizes on architecture design and development of enterprise applications based on soa the book provides detailed information on many dimensions of soa reuse agility and integration that can be put to immediate use for creating transformational impact it also offers a comprehensive and structured set of techniques for custom built service oriented enterprise applications that can be readily applied by system integration companies and end user organizations to address customer needs the book equips you with both concepts and technology detail in addressing the it challenges faced by organizations on their business transformation journey with soa this is the most sought after book by students who need to have an understanding of the concepts of soa architects designers and developers who build soa based enterprise applications and cxos and project managers who make decisions on undertaking soa projects

Service-oriented Architecture for Enterprise Applications 2008 soa handbook navigating enterprise connectivity serves as an indispensable guide for enterprises seeking to embrace service oriented architecture soa principles for enhanced connectivity and agility this comprehensive handbook distills complex concepts into accessible insights offering a roadmap for implementing and optimizing soa strategies the book begins by

demystifying the fundamentals of soa providing readers with a clear understanding of its principles and benefits from there it delves into practical strategies for designing implementing and managing soa based systems through real world examples and case studies readers gain valuable insights into the successful application of soa across diverse industries and organizational contexts one of the key strengths of soa handbook lies in its emphasis on practical guidance it offers step by step instructions for designing service oriented architectures selecting appropriate technologies and orchestrating services for maximum efficiency moreover the handbook addresses common challenges and pitfalls encountered during soa implementation equipping readers with strategies for overcoming these obstacles in addition to its focus on implementation soa handbook underscores the importance of governance and maintenance in sustaining a robust soa ecosystem it provides frameworks for establishing governance structures ensuring service interoperability and managing service lifecycles effectively by emphasizing the importance of continuous improvement and adaptation the handbook empowers enterprises to evolve their soa strategies in response to changing business requirements and technological advancements furthermore soa handbook explores emerging trends and future directions in the realm of soa offering insights into topics such as microservices architecture cloud integration and api management by staying abreast of these developments readers are better equipped to future proof their soa initiatives and capitalize on emerging opportunities in summary soa handbook navigating enterprise connectivity is an invaluable resource for enterprises embarking on their soa journey or seeking to optimize existing soa implementations with its practical guidance real world examples and forward looking perspective this handbook equips readers with the knowledge and tools needed to harness the full potential of soa for driving innovation and competitiveness in the digital age

Service Oriented Architecture - SOA - Handbook 2010 100 soa questions brings together authoritative answers to the most crucial questions business technical and architectural decision makers ask about soa it draws on the immense experience of two soa experts who ve participated in more than 100 soa projects in the roles of architect designer consultant technical manager and strategist organized to reflect the open group s open services integration maturity model osimm this book provides fast convenient access to information about all facets of soa planning implementation management and utilization this book will be an invaluable resource for all executives architects and practitioners who have just started their soa journey or are well underway in depth answers to questions about soa topics such as soa concepts and planning business strategy organization and support governance methods and techniques applications architecture information management infrastructure the future of soa 100 soa questions answers the most critical questions executives and practitioners have about soa kerrie holley and dr ali arsanjani draw on their unsurpassed experience from hundreds of soa projects conducted worldwide why should business stakeholders care about soa what is the return on investment roi of soa adoption what is flexibility and how does soa deliver on this promise should service development be centralized in service centers how should services be identified or specified to maximize reuse how do soa methods reduce the lifetime costs for applications how can organizational barriers to soa success be removed what changes with application development when soa is introduced how does architecture change as a result of soa adoption what is a canonical message model how does the soa infrastructure support events what are context aware services

100 SOA Questions 2013-06-30 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

Service-Driven Approaches to Architecture and Enterprise Integration 2008-09-25 a must have guide for all companies undertaking service oriented architecture soa and its governance service oriented architecture governance for the services driven enterprise expertly covers the business organizational process compliance security and technology facets of soa and its 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 its governance

Service-Oriented Architecture Governance for the Services Driven Enterprise 2016-12-06 this book could be described as an encyclopedia of service design erl leaves nothing to chance indispensable steve birkel chief technical architect intel corp an absolute pleasure to read the best soa book i ve read a book i would recommend to all of my colleagues it provides much insight to the topics often overlooked by most books in this genre the visuals were fantastic brandon bohling soa architecture and strategy intel corporation this book is a milestone in soa literature for the first time we are provided with a practical guide on defining service characteristics and service design principles for soa from a vendor agnostic viewpoint it s a great reference for soa discovery adoptions and implementation projects canyang kevin liu principal enterprise architect sap americas inc i liked this book it contains extremely important material for those who need to design services farzin yashar ibm soa advanced technologies this book does a great job laying out benefits

key ideas and design principles behind successfully adopting service oriented computing at the same time the book openly addresses challenges risks and trade offs that are in the way of adopting soa in the real world today it moves away from ivory tower views of service orientation but still lays out a strong vision for soa and outlines the changes necessary to realize the full potential christoph schittko senior architect microsoft i recommend this book to any soa practitioner who wishes to empower themselves in making service design real gives readers the 360 view into service design and gives soa practitioners the depth and understanding needed into the principles of soa to assist in the design of a mature and successful soa program stephen g bennett americas soa practice lead bea systems soa projects are most successful when they are based on a solid technical foundation well accepted and established design principles are part of this foundation this book takes a very structured approach at defining the core design principles for soa thus allowing the reader to immediately applying them to a project each principle is formally introduced and explained and examples are given for how to apply it to a real design problem a must read for any architect designer or developer of service oriented solutions andre tost senior technical staff member ibm software group there are few references for soa that give you the nuts and bolts and this one is at the top of the list well written and valuable as a reference book to any soa practitioner dr mohamad afshar director of product management oracle fusion middleware oracle corporation a thorough examination of the considerations of service design both seasoned soa practitioners and those endeavoring to realize services can benefit from reading this book bill draven enterprise architect intel corporation there are very few who understand soa like thomas erl does the principle centric description of service orientation from thomas canonizes the underpinnings of this important paradigm shift in creating agile and reusable software capabilities the principles so eloquently explained leave little room for any ambiguity attached to the greater purpose of soa most organizations today are creating services in a bottoms up approach realizing composition and reuse organically the time is ripe for a book like this that prepares architects for a principle centric approach to soa hanu kommalapati architect microsoft corporation outstanding soa literature uniquely focused on the fundamental services design with thorough and in depth study on all practical aspects from design principles to methodologies this book provides a systematic approach for soa adoption essential for both it management and professionals robin chen phd google inc thomas erl s books are always densely filled with information that s well structured this book is especially insightful for enterprise architects because it provide s great context and practical examples part 1 of the book alone is worth getting the book for markus zirn senior director product management oracle fusion middleware oracle corporation a very clear discussion of the subject matter provides a good structure that facilitates understanding and readily highlights key points kareem yusuf director of soa strategy and planning ibm software group i am very impressed comprehensive educative this book helped me to step back and look at the soa principles from broader perspective i d say this is a must read book for soa stakeholders radovan janecek director r d soa center hewlett packard very valuable guidance for understanding and applying soa service design principles with concrete examples a must read for the practitioner of soa service design umit yalcinalp phd standards architect sap this book really does an excellent job of explaining the principles underpinning the value of soa erl goes to great length to explain and give examples of each of the 8 principles that will significantly increase the readers ability to drive an soa service design that benefits both business and it robert laird it architect ibm eai soa advanced technologies group this book strikes a healthy balance between theory and practice it is a perfect complement to the soa series by the author prakash narayan sun microsystems if you are going to be designing developing or implementing soa this is a must have book jason aj comfort sr booz allen hamilton an excellent book for anyone who wants to understand service orientation and the principles involved in designing services a clear concise and articulate exploration of the eight design principles involved in analyzing designing implementing and maintaining services anish karmarkar oracle corporation very well written succinct and easy to understand raj balasubramanian ibm software group acomprehensive exploration of the issues of service design which has the potential to become the definitive work in this area james pasley chief technology officer cape clear software an excellent addition to any soa library it covers a wide range of issues in enough detail to be a valuable asset to anyone considering designing or using soa based technologies mark little director of standards red hat this book communicates complex concepts in a clear and concise manner examples and illustrations are used very effectively darryl hogan senior architect microsoft a work of genius offers the most comprehensive and thorough explanation on the principles of service design and what it means to be service oriented erl s treatment of the complex world of service oriented architecture is pragmatic inclusive of real world situations and offers readers ways to communicate these ideas through illustrations and well formulated processes david michalowicz mitre corporation this is the book for the large organization trying to rationalize its it assets and establish an agile platform for the future by highlighting risk and rewards thomas erl brings clarity to how service orientation can be applied to ensure a responsive it organization this book finally brings software engineering principles to address the real world development challenges being faced to effectively serve the business let alone embrace soa everyone involved should be familiar with the concepts investigated here thomas erl thoroughly clarifies the nuances and defines the practice of service design we expect that this will become a classic text in software engineering corporate training and colleges cory isaacson president rogue wave software and ravi palepu soa author and speaker thomas erl does a great job an easy read michael h sor booz allen hamilton a must read for soa architects to develop a firm foundation and understanding of the principles and trade offs that make up a good soa service after reading this book it finally clicked as to why a properly designed soa system is different and better than a system based on previous enterprise architectures fred ingham platinum solutions inc

lays a tremendous foundation for business and technical workers to come to common terms and expectations incredibly enlightening to see the details associated with achieving the soa vision wayne p ariola vice president of strategy parasoft erl does an excellent job of addressing the breadth of his audience to present to those new to soa and weaved in enough detail to assist those who are already actively involved in soa development r perry smith application program manager eds onstar it is easy to miss the big picture of what soa means for the design of larger scale systems amidst the details of ws technologies erl helps provide a broader perspective surveying the landscape from a design standpoint jim clune chief architect parasoft lays a firm foundation for the underlying principles of good service design cuts through the hype and provides a cogent resource for improving architectural judgment on soa projects jim murphy vice president of product management mindreef inc the first book to concisely gradually and comprehensively explain how to apply soa principles into enterprise level software design it is an excellent book robin g qiu ph d division of engineering and information science pennsylvania state university i really think that this is a very useful book that a lot of people really need out there in the industry dr arnaud simon principal software engineer red hat indispensable companion to designing and implementing a service oriented architecture it condenses all information necessary to design services and is the most relevant source i know if in the field this book is not only helpful but fundamental to successfully designing an soa phillip offermann research analyst university of berlin service oriented architecture is an important topic in it today its vast scope could span an organization s enterprise designing it properly is a major undertaking this book provides timely expert and comprehensive discussions on the principles of service design thomas has a keen sense in identifying the subtle points of various subjects and explains them in an easy to understand way the book is a valuable resource for it professionals working in soa peter h chang phd associate professor of information systems lawrence technological university the definitive guide to service engineering the key to succeeding with service oriented architecture soa is in comprehending the meaning and significance of its most fundamental building block the service it is through an understanding of service design that truly service oriented solution logic can be created in support of achieving the strategic goals associated with soa and service oriented computing bestselling soa author thomas erl guides you through a comprehensive insightful and visually rich exploration of the service orientation design paradigm revealing exactly how services should and should not be designed for real world soa this book s in depth coverage includes over 240 full color illustrations a concise introduction to soa and service oriented computing concepts and benefits a thorough exploration of the service orientation design paradigm as represented by eight specific design principles a comparison of service oriented and object oriented concepts and principles and a clear definition of what qualifies as service oriented logic detailed coverage of four different forms of service related design granularity an exhaustive examination of service contracts with an emphasis on standardization abstraction and the utilization of ws policy xml schema and wsdl definitions a comprehensive study of positive and negative service related coupling types with an emphasis on the requirements to attaining a suitable level of loose coupling an inside look into how commercial design approaches are incorporated to achieve truly agnostic and reusable service logic techniques for maximizing service reliability scalability and performance by instilling high levels of autonomy and emphasizing stateless design approaches for positioning services as highly discoverable and interpretable enterprise resources unprecedented coverage of how to design services for participation in complex compositions the definition of concrete links between each design principle and the strategic goals and benefits of soa and service oriented computing numerous cross references to key design patterns documented separately in soa design patterns prenhallprofessional.com soabooks.com soasystems.com preface xxv chapter 1 introduction 1 chapter 2 case study background 19 part i fundamentals chapter 3 service oriented computing and soa 25 chapter 4 service orientation 67 chapter 5 understanding design principles 103 part ii design principles chapter 6 service contracts standardization and design 125 chapter 7 service coupling intra service and consumer dependencies 163 chapter 8 service abstraction information hiding and meta abstraction types 211 chapter 9 service reusability commercial and agnostic design 253 chapter 10 service autonomy processing boundaries and control 293 chapter 11 service statelessness state management deferral and stateless design 325 chapter 12 service discoverability interpretability and communication 361 chapter 13 service composability composition member design and complex compositions 387 part iii supplemental chapter 14 service orientation and object orientation a comparison of principles and concepts 445 chapter 15 supporting practices 477 chapter 16 mapping service orientation principles to strategic goals 497 appendices appendix a case study conclusion 513 appendix b process descriptions 517 appendix c principles and patterns cross reference 529 additional resources 533 about the author 535 about the photos 537 index 539

SOA Principles of Service Design (paperback) 2006-04-28 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 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

Enterprise SOA 2009 this book demonstrates service oriented architecture soa as a concrete discipline rather than a hopeful collection of cloud charts built upon the author s firsthand experience rolling out a soa at a major corporation soa in practice explains how soa can simplify the creation and maintenance of large scale applications whether your project involves a large set of services based components or connects legacy applications to modern business processes this book clarifies how and whether soa fits your needs soa has been a vision for years this book brings it down to earth by describing the real world problems of implementing and running a soa in practice after defining soa s many facets examining typical use patterns and exploring how loose coupling helps build stronger applications soa in practice presents a framework to help you determine when to take advantage of soa in this book you will focus squarely on real deployment and technology not just standards maps examine business problems to determine which ones fit a soa approach before plastering a soa solution on top of them find clear paths for building solutions without getting trapped in the mire of changing web services details gain the experience of a systems analyst intimately involved with soa the principles and experiences described in this book played an important role in making soa at t mobile a success story with more than 10 million service calls per day dr steffen roehn member of the executive committee t mobile international cio nicolai josuttis has produced something that is rare in the over hyped world of soa a thoughtful work with deep insights based on hands on experiences this book is a significant milestone in promoting practical disciplines for all soa practitioners john schmidt chairman integration consortium the book belongs in the hands of every cio it director and it planning manager dr richard mark soley chairman and ceo object management group executive director soa consortium

Service-Oriented Architecture (SOA) Compass: Business Value, Planning, and Enterprise Roadmap 2007-08-24 improving business agility with eda going beyond soa enterprises can gain even greater agility by implementing event driven architectures edas that automatically detect and react to significant business events however eda planning and deployment is complex and even experienced soa architects and developers need expert guidance in event driven architecture four leading it innovators present both the theory of eda and practical step by step guidance to implementing it successfully the authors first establish a thorough and workable definition of eda and explore how eda can help solve many of today s most difficult business and it challenges you ll learn how edas work what they can do today and what they might be able to do as they mature you ll learn how to determine whether an eda approach makes sense in your environment and how to overcome the difficult interoperability and integration issues associated with successful deployment finally the authors present chapter length case studies demonstrating how both full and partial eda implementations can deliver exceptional business value coverage includes how soa and services can power event driven architectures the role of soa infrastructure governance and security in eda environments eda core components event consumers and producers message backbones service transport and more eda patterns including simple event processing event stream processing and complex event processing designing flexible stateless events that can respond to unpredictable customers suppliers and business partners addressing technical and business challenges such as project management and communication eda at work real world applications across multiple verticals hugh taylor is a social software evangelist for ibm lotus software he coauthored understanding enterprise soa and has written extensively on services and soa he holds an mba from harvard business school angela yochem is an executive in a multinational technology company and is a recognized thought leader in architecture and large scale technology management les phillips vp enterprise architecture at suntrust banks inc is responsible for defining the strategic and business it foundation for many areas of the enterprise frank martinez evp product strategy at soa software is a recognized expert on distributed enterprise application and infrastructure platforms he has served as senior operating executive for several venture backed firms and helped build intershop communications into a multibillion dollar public company

SOA in Practice 2009-02-17 process driven soa patterns for aligning business and it supplies detailed guidance on how to design and build software architectures that follow the principles of business it alignment it illustrates the design process using proven patterns that address complex business technical scenarios where integrated concepts of service oriented architect

Event-Driven Architecture 2016-04-19 is your organization ready to adopt a service oriented approach to information technology have you ever wondered if service oriented architecture soa deployments in other organizations have been successful how did they approach the deployment the authors of this definitive book on soa debunk the myths and demonstrate through examples from different vertical industries how a crawl walk run approach to deployment of soa in an it environment can lead to a successful return on investment one popular argument states that soa is not a technology per se but that it stands alone and can be implemented using a wide range of technologies the authors believe that this definition while attractive and elegant doesn t necessarily pass pragmatic muster service oriented architecture demystified describes both the technical and organizational impacts of adopting soa and the pursuant challenges the authors demonstrate through real life deployments why and how different industry sectors are adopting soa the

challenges they face the advantages they have realized and how they have or have not addressed the issues emerging from their adoption of soa this book strikes a careful balance between describing soa as an enabler of business processes and presenting soa as a blueprint for the design of software systems in general throughout the book the authors attempt to cater to both technical and organizational viewpoints and show how both are very different in terms of why soa is useful the it software architect sees soa as a business process enabler and the cto sees soa as a technology trend with powerful paradigms for software development and software integration soa can be characterized in terms of different vertical markets for each such market achieving soa means something different and involves different transformational shifts the vertical markets covered include healthcare government manufacturing finance and telecommunications soa considerations are quite different across these vertical markets and in some cases the required organizational shifts and technology shifts are highly divergent and context dependent whether you are a cto cio it manager or it architect this book provides you with the means to analyze the readiness of your internal it organization and with technologies to adopt a service oriented approach to it

Process-Driven SOA 2007-08-30 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 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

Service Orientated Architecture Demystified 2016-09-23 in soa and services interface design data architecture guru james bean teaches you how to design web service interfaces that are capable of being extended to accommodate ever changing business needs and promote incorporation simplicity the book first provides an overview of critical soa principles thereby offering a basic conceptual summary it then provides explicit tactical and real world techniques for ensuring compliance with these principles using a focused tutorial based approach the book provides working syntactical examples described by services standards such as xml xml schemas wsdl and soap that can be used to directly implement interface design procedures thus allowing you immediately generate value from your efforts in summary soa and services interface design provides the basic theory but also design techniques and very specific implementable encoded interface examples that can be immediately employed in your work making it an invaluable practical guide to any practitioner in today s exploding based service market provides chapters on topics of introductory wsdl syntax and xml schema syntax taking the reader through fundamental concepts and into deeper techniques and allowing them to quickly climb the learning curve provides working syntactical examples described by services standards such as xml xml schemas wsdl and soap that can be used to directly implement interface design procedures real world examples generated using the altova xml spy tooling reinforce applicability allowing you to immediately generate value from their efforts

Emerging Trends in the Evolution of Service-Oriented and Enterprise Architectures 2009-09-25 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 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

SOA and Web Services Interface Design 2013-01-23 service oriented architecture soa analyses and commentaries is a collection of 9 analyses commentaries from several software and infrastructure specialists each takes a different view of soa and how it may be used and applied this volume is intended for those who want to expand their thinking on soa or wish to obtain a broad feeling about what can be done with soa why and how

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