



Understanding SCA

(Service Component Architecture)

Jim Marino
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Understanding Sca Service Component Architecture

Michael Rowley

Paul C. Brown



Understanding Sca Service Component Architecture Michael Rowley:

Understanding SCA (Service Component Architecture) Jim Marino, Michael Rowley, 2009-06-29 Use SCA to Simplify the Development and Delivery of Service Based Applications Service Component Architecture SCA is a new programming model that enables developers to build distributed applications more efficiently and effectively than previous technologies In Understanding SCA Service Component Architecture two leading experts offer the first complete and independent guide to SCA Drawing on extensive experience both developing the SCA standards and implementing large scale SCA applications Jim Marino and Michael Rowley provide an insider s perspective for developers and technical managers tasked with architecting and implementing enterprise systems Rather than simply providing a technology overview the authors draw on their practical experiences with SCA explaining The full history behind SCA How SCA fits with other enterprise technologies such as JEE NET Web Services and BPEL All the major SCA concepts including composition policy wires and bindings Best practices for designing SCA applications Using SCA with Web Services Message Oriented Middleware BPEL JPA and Servlets Understanding SCA Service Component Architecture provides the background necessary to make informed decisions about when and how to best use SCA to build enterprise applications *TIBCO Architecture Fundamentals* Paul C. Brown, 2011-05-09 TIBCO Architecture Fundamentals is a must read for anybody involved with the architecture and design of distributed systems system integration issues or service based application design Bert Hooymann Chief Architect Europe for Mphasis an HP Company I would like all the folks on my team to read this to ensure we are all on the same page with the deliverables that are expected from architecture teams involved in global projects and the role that the TIBCO tools play in implementing these solutions Joseph G Meyer Director of Architecture Services and R D Citi TIBCO s product suite comprises a diverse range of components Each component is specialized for a particular functionality ranging from basic messaging through services service orchestration the management of complex business processes managing master data across multiple systems and the interpretation of massive streams of events complex event processing The architecture series from TIBCO Press comprises a coordinated set of books for software architects and developers showing how to combine TIBCO components to design and build real world solutions TIBCO Architecture Fundamentals is the core book for understanding and using the TIBCO product suite It focuses on the TIBCO ActiveMatrix product suite and a handful of the other most commonly used components including the TIBCO Enterprise Message Service™ and TIBCO BusinessEvents™ The book provides a sound basis for applying TIBCO products to solve the most common integration and SOA challenges faced by architects and developers In addition it lays the foundation for the more advanced books to be added to the architecture series Designed to make the material as accessible as possible the book starts with concrete problems architects and developers face every day showing how to solve these problems with combinations of TIBCO and selected third party products In the context of specific design scenarios it also discusses key concepts and decision trade offs To accomplish its

practical aims the book Provides useful techniques for discussing and documenting architectures Presents reference architectures design patterns for solving common SOA and system integration problems Describes each problem and solution from both business process and technical perspectives Supplies an overview of the typical solution roles played by different TIBCO products The book largely avoids the code level detail already available in the product manuals concentrating instead on blueprints for solving whole classes of problems

INFORMATION SYSTEMS MANAGEMENT IN BUSINESS AND DEVELOPMENT ORGANIZATIONS MISRA, HAREKRISHNA, 2013-06-03 Management Information Systems MIS has fast emerged as a multi disciplinary area having strategic interfaces to achieve organizational objectives This comprehensive book discusses the underlying principles of business and development organizations identifies their core areas and prescribes approaches to develop MIS Divided into five parts Part I Understanding Organizations for MIS deals with organizational issues and focuses on the rationale behind creating organizations especially business and development organizations to understand their distinguishing features Part II Systems Approach to Organizations covers conceptualization identification design and development of Information System IS for the organization in order to have better systems in place to support organizational goals Part III Understanding MIS discusses the relevance of MIS in organizations and the forms it can take to meet the strategic needs of the respective organizations Part IV Understanding Information Technologies describes possible approaches to plan identify and deploy ICT in the acquiring organizations and provides insight into the barriers that creep in during identification and deployment of IS and ICT keeping in view the organizational objectives Part V Planning and Implementation of MIS concludes with a discussion on preparation of MIS plan and issues related to its implementation The book is intended for the postgraduate students of management specializing in rural management and IT Key Features Describes life cycle approach and systems approach to organizations Contains a large number of case studies Provides real life examples to put the concepts in the right perspective

Modeling and Simulating Software Architectures Ralf H. Reussner, Steffen Becker, Jens Happe, Robert Heinrich, Anne Koziolk, 2016-10-21 A new quantitative architecture simulation approach to software design that circumvents costly testing cycles by modeling quality of service in early design states Too often software designers lack an understanding of the effect of design decisions on such quality attributes as performance and reliability This necessitates costly trial and error testing cycles delaying or complicating rollout This book presents a new quantitative architecture simulation approach to software design which allows software engineers to model quality of service in early design stages It presents the first simulator for software architectures Palladio and shows students and professionals how to model reusable parametrized components and configured deployed systems in order to analyze service attributes The text details the key concepts of Palladio s domain specific modeling language for software architecture quality and presents the corresponding development stage It describes how quality information can be used to calibrate architecture models from which detailed simulation models are automatically derived for quality predictions

Readers will learn how to approach systematically questions about scalability hardware resources and efficiency The text features a running example to illustrate tasks and methods as well as three case studies from industry Each chapter ends with exercises suggestions for further reading and takeaways that summarize the key points of the chapter The simulator can be downloaded from a companion website which offers additional material The book can be used in graduate courses on software architecture quality engineering or performance engineering It will also be an essential resource for software architects and software engineers and for practitioners who want to apply Palladio in industrial settings

Applied SOA Michael Rosen,Boris Lublinsky,Kevin T. Smith,Marc J. Balcer,2012-07-02 Endorsed by all major vendors Microsoft Oracle IBM and SAP SOA has quickly become the industry standard for building next generation software this practical guide shows readers how to achieve the many benefits of SOA Begins with a look at the architectural principles needed to create successful applications and then goes on to examine the process for designing services and SOA implementations Each stage of the design process has an accompanying chapter that walks readers through the details and provides helpful tips techniques and examples The author team of SOA practitioners also provides two unique comprehensive end to end case studies illustrating the architectural and design techniques presented in the book

Service-oriented Architecture Eric A. Marks,2006 Praise for Service Oriented ArchitectureThis 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

Service-Oriented Modeling Michael Bell,2008-05-16 Answers to your most pressing SOA development questions How do we start with service modeling How do we analyze services for better reusability Who should be involved How do we create the best architecture model for our organization This must read for all enterprise leaders gives you all the answers and tools needed to develop a sound service oriented architecture in your organization Praise for Service Oriented Modeling Service Analysis Design and Architecture Michael Bell has done it again with a book that will be remembered as a key facilitator of the global shift to Service Oriented Architecture With this book Michael Bell provides that foundation and more an essential bible for the next generation of enterprise IT Eric Pulier Executive Chairman SOA Software Michael Bell s insightful book provides common language and techniques for business and technology organizations to take advantage of the SOA paradigm By focusing modeling techniques on the business problem Bell provides a way for professionals to work throughout the life cycle to create reusable and enduring services Mike Zbranak CIO Chase Card Services This book will become an imperative business and technology service oriented modeling recipe for any manager architect modeler analyst and developer in today s software development industry Jeff Schneider CEO MomentumSI Innovative and groundbreaking are words that best describe Michael Bell s Service Oriented Modeling It depicts a true service modeling approach that elegantly closes a clear and critical service modeling gap in the SOA industry This holistic book ties these concepts together using real world examples across a service life cycle that transitions services

from ideas and concepts into production assets that deliver business value A must read for business and technical SOA practitioners Eric A Marks CEO AgilePath Corporation As hot as SOA is today many business and technology professionals still find it challenging to mind the gap between their disparate methodologies and objectives Herein Michael Bell speaks clearly to both camps in straightforward language outlining disciplines each can use to communicate effectively and advance the realization of corporate aims This book is a bible for all who seek to drive business technology into the future Mark Edward Goodrich Director Investing Product Management Reuters Media This book takes senior IT architects and systems designers into the depths of modeling for SOA with a fresh new perspective on tools terminology and how to turn the theory into practice His full life cycle approach balances process control and accountability to align all the participants in the delivery pipeline clearing the road for successful SOA business solutions Phil Gilligan Chief Technology Officer EBS

Service-oriented Architecture for Enterprise Applications Shankar Kambhampaty, 2008 Market_Desc Students Software Engineers Designers Architects Business Analysts and Consultants Project Program Managers and IT Consultants CXOs Special Features First book that focuses on architecture design and development of Enterprise applications based on Service Oriented Architecture Caters to the needs of students who need to understand the concepts of SOA architects designers and developers who build SOA based enterprise applications and CXOs and Project managers who make decisions on undertaking SOA projects Includes detailed description and code to enable architects designers and developers to build SOA applications on Java and NET platforms SOA is one of key areas on which IT services product and end user companies will be building substantial capability atleast until 2011 This book enables project teams in these companies to use it as a text book for their training programs on SOA About The Book Service Oriented Architecture is a book that emphasizes on architecture design and development of enterprise applications based on SOA The book provides detailed information on many dimensions of SOA reuse agility and integration that can be put to immediate use for creating transformational impact It also offers a comprehensive and structured set of techniques for custom built service oriented enterprise applications that can be readily applied by system integration companies and end user organizations to address customer needs The book equips you with both concepts and technology detail in addressing the IT challenges faced by organizations on their business transformation journey with SOA This is the most sought after book by students who need to have an understanding of the concepts of SOA architects designers and developers who build SOA based enterprise applications and CXOs and Project managers who make decisions on undertaking SOA projects

Getting Started with WebSphere Application Server Feature Pack for Service Component Architecture Carla Sadtler, Graham Crooks, Jacek Laskowski, Sara Mitchell, IBM Redbooks, 2010-03-24 Service Component Architecture SCA defines a service based model for building business process applications using an SOA approach This ability to drive a business process using individual reusable services is the heart of the SOA concept With IBM WebSphere Application Server Feature Pack for Service Component Architecture you can deploy SCA applications to

WebSphere Application Server This IBM Redpaper™ publication provides a starting point for using the Feature Pack for SCA It provides an architectural view of SCA and of the Feature Pack In addition this paper explains how to create simple SCA components from existing Java™ and Spring implementations It discusses how to apply quality of service to applications and how to deploy and manage SCA artifacts in WebSphere Application Server The examples in this paper use Rational Application Developer to illustrate how to create and package SCA applications

SOA Principles of Service Design Thomas Erl, 2007-07-18 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

Tuscany SCA in Action Simon Laws, Mark Combellack, 2011 Provides information on developing enterprise applications with Apache Tuscany SCA

Service-oriented Architecture Thomas Erl, 2017 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

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API and Contract Design with Web Services Chapter 9 Service API and Contract Design with REST Services and Microservices Chapter 10 Service API and Contract Versioning with Web Services and REST Services Part III Appendices Appendix A Service Orientation Principles Reference Appendix B REST Constraints Reference Appendix C SOA Design Patterns Reference Appendix D The Annotated SOA Manifesto **Service-oriented Architecture** Thomas Erl,Paulo Merson,Roger Stoffers,2017 **Service-oriented Architecture** Thomas Erl,2005 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 James P. Lawler,H. Howell-Barber,2008 SERVICE-ORIENTED ARCHITECTURE FOR ENTERPRISE AND CLOUD APPLICATIONS, 2ND ED (With CD) Shankar Kambhampaty,2010-06-01 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 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 Service Oriented Architecture Field Guide for Executives Kyle Gabhart,2008 **Enterprise Soa** Dirk Krafzig,2004 By delivering SAP s next generation applications based on a Services Oriented Architecture SAP is at the forefront of making Web services work for the enterprise The Enterprise Services Architecture enables unprecedented flexibility in business process deployment allowing companies to execute and innovate end to end processes across departments and companies with minimum disruption to other systems and existing IT investments This strategy comes to life with SAP NetWeaver which is the technological foundation of the Enterprise Services Architecture It provides easy integration of people information and systems in heterogeneous IT environments and provides a future proof application platform Enterprise SOA provides readers with the architectural blueprints and SOA driven project management strategies that are required to successfully adopt SOA on an enterprise level Dr Peter Graf SVP Product Marketing SAP The SOA principles outlined in this book enable enterprises to leverage robust and proven middleware platforms including CORBA to build flexible and business oriented service architectures The authors also clearly describe the right strategies for using Model Driven Architecture MDA to manage SOA Service Repositories in a platform independent way enabling enterprises to better address the problem of heterogeneity at many levels The Object Management Group was created just to address this central problem of integration in the face of constantly changing heterogeneity and platform churn so I strongly recommend this book for the bookshelf of every enterprise architect and developer Richard Mark Soley Ph D chairman and chief executive officer Object Management Group Inc Enterprise SOA provides strategies that help large enterprises to increase the agility of their IT systems one of the most pressing issues of contemporary IT Covering both a business and architectural view these strategies aim to promote the implementation of an IT infrastructure that can serve as a base for the development of truly flexible business processes This book covers its subject with great profoundness based on real world evidence It is in the interest of everybody involved with software architecture particularly for anybody who intends to establish a Service Oriented Architecture to read this book Dr Helge He director Business Process Management IDS Scheer AG The SOA principles described in this book are the foundation on whi

Service-oriented Architecture (SOA): High-impact Strategies - What You Need to Know Kevin Roebuck,2011 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 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 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 Kapit 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 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 enabling you to compare your understanding of Service oriented architecture SOA with the objectivity of experienced professionals [Achieving Service-Oriented Architecture](#) Rick Sweeney,2010-04-27 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

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