
Agile Architecture For Service Oriented Component Driven Enterprises Encouraging Rapid Application Development Using Agile

Using Web Services to Deliver Business Value
 The Progressive Way of Overhauling Information Systems with SOA
 From Programmer to Software Architect
 Business Value, Planning, and Enterprise Roadmap
 Agile Service Development
 Strategies, practices, and patterns to help architects design continually evolving solutions
 Business Intelligence
 Emerging Research and Opportunities
 Achieving Service-Oriented Architecture
 A Practical Roadmap to Agile Enterprises in the Digital Age
 Concepts, Challenges, Recommendations
 How Cloud Computing, REST-Based SOA, and Mobile Computing Are Changing Enterprise IT
 Service-Driven Approaches to Architecture and Enterprise Integration
 Service-Oriented Architecture (paperback)
 Combining Adaptive Methods and Flexible Solutions
 Building the Agile Enterprise
 SOA Strategy, Methodology, and Technology
 Research Anthology on Agile Software, Software Development, and Testing
 Design It!
 Enterprise Service Oriented Architectures
 Service Oriented Architecture Field Guide for Executives
 Digital Enterprise and Information Systems
 Concepts, Technology, and Design
 Service Analysis, Design, and Architecture
 An Agile Architecture Framework that Leverages the Strengths of Business Intelligence, Decision Management and Service Orientation
 International Conference, DEIS 2011, London, UK July 20 - 22, 2011, Proceedings
 Service-oriented Architecture Best Practices
 Application Development and Design: Concepts, Methodologies, Tools, and Applications
 With SOA, BPM and MBM
 Service-Oriented Architecture
 Requirements Modelling and Specification for Service Oriented Architecture
 Encouraging Rapid Application Development Using Agile
 Service-Oriented Modeling
 Solution for Business Development
 Service Orientation in Holonic and Multi Agent Manufacturing and Robotics
 Applying an Enterprise Architecture Approach
 Concepts, Methodologies, Tools, and Applications
 Foundations, Theory, and Practice
 The Agile Architecture Revolution

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Using Web Services to Deliver Business Value John Wiley & Sons
 Challenges in unpredictable markets, changing customer requirements, and advancing information technologies have lead to progression towards service oriented engineering and agile and lean software development. These prevailing approaches to software systems provide solutions to challenges in demanding business environments. Agile and Lean

Service-Oriented Development: Foundations, Theory and Practice explores the groundwork of service-oriented and agile and lean development and the conceptual basis and experimental evidences for the combination of the two approaches. Highlighting the best tools and guidelines for these developments in practice, this book is essential for researchers and practitioners in the software development and service computing fields.

The Progressive Way of Overhauling Information Systems with SOA FT Press

"Software is the essential enabler for the new economy and for science. It creates

new markets and new directions for a more reliable, flexible and robust society. It empowers the exploration of our world in ever more depth. However, software often falls short of our expectations. Current software methodologies, tools, and techniques remain expensive and not yet reliable enough for a highly changeable and evolutionary market. Many approaches have been proven only as case-by-case oriented methods. This book, as part of the SOMET series, presents new trends and theories in the direction in which we believe software science and engineering may develop to transform the role of software and science integration in tomorrows global

information society. This book is an attempt to capture the essence on a new state of art in software science and its supporting technology. The book also aims at identifying the challenges such a technology has to master. One of the important issues addressed by this book is software development security tools and techniques."

From Programmer to Software Architect Prentice Hall

In the last ten years IT has brought fundamental changes to the way the world works. Not only has it increased the speed of operations and communications, but it has also undermined basic assumptions of traditional business models and increased the number of variables. Today, the survival of major corporations is challenged by a world-wide marketplace, international operations, outsourcing, global communities, a changing workforce, security threats, business continuity, web visibility, and customer expectations. Enterprises must constantly adapt or they will be unable to compete. Fred Cummins, an EDS Fellow, presents IT as a key enabler of the agile enterprise. He demonstrates how the convergence of key technologies—including SOA, BPM and emerging enterprise and data models—can be harnessed to transform the enterprise. Cummins mines his 25 years experience to provide IT leaders, as well as enterprise architects and management consultants, with the critical information, skills, and insights they need to partner with management and redesign the enterprise for continuous change. No other book puts IT at the center of this transformation, nor integrates these technologies for this purpose. Shows how to integrate and deploy critical technologies to foster agility Details how to design an enterprise architecture that takes full advantage of SOA, BPM, business rules, enterprise information management, business models, and governance Outlines IT's critical mission in providing an integration infrastructure and key services, while optimizing technology adoption throughout the enterprise Illustrates concepts with examples and cases from large and small commercial enterprises Shows how to create systems that recognize and respond to the need for change Identifies the unique security issues that arise with SOA and shows how to deploy a framework of technologies and processes that address them *Business Value, Planning, and Enterprise Roadmap* John Wiley & Sons Economies around the globe have evolved into being largely service-oriented economies. Consumers no longer just want

a printer or a car, they rather ask for a printing service or a mobility service. In addition, service-oriented organizations increasingly exploit new devices, technologies and infrastructures. Agility is the ability to deal with such changing requirements and environments. Agile ways of working embrace change as a positive force and harness it to the organization's competitive advantage. The approach described in this book focuses on the notion of a service as a piece of functionality that offers value to its customers. Instead of solely looking at agility in the context of system or software development, agility is approached in a broader context. The authors illustrate three kinds of agility that can be found in an agile enterprise: business, process and system agility. These three types of agility reinforce each other and establish the foundation for the agile enterprise. Architecture, patterns, models, and all of the best practices in system development contribute to agile service development and building agile applications. This book addresses two audiences. On the one hand, it aims at agile and architecture practitioners who are looking for more agile ways of working in designing and building business services or who are interested in extending and improving their agile methods by using models and model-based architectures. On the other hand, it addresses students of (enterprise) architecture and software development or service science courses, both in computer science and in business administration. Agile Service Development IGI Global 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. Strategies, practices, and patterns to help architects design continually evolving solutions Springer Science & Business Media Many software developers often confuse

requirements engineering with software specification and, as a result, build unusable systems, despite meeting specifications. Bringing together all the techniques needed by the modern software developer, here is a practical handbook to requirements engineering and systems specification for developers building systems within a service oriented architecture. It introduces the concepts of SOA and relevant standards and technology, such as Web services and ESBs, and then presents a range of modern requirements engineering techniques. CRC Press

The Complete Reference to Professional SOA with Visual Studio 2005 (C# & VB 2005) focuses on architecting and constructing enterprise-level systems. Taking advantage of the newly released Visual Studio 2005 development environment, the book assesses the current service-oriented platform and examines new ways to develop for scalability, availability, and security (which have become available with .NET 2.0). You'll get to look closely at application infrastructure in terms of flexibility, interoperability, and integration, as well as the decisions that have to be made to achieve optimum balance within your architecture.

Business Intelligence IGI Global

A guide to successfully operating in a lean-agile organization for solutions architects and enterprise architects Key Features Develop the right combination of processes and technical excellence to address architectural challenges Explore a range of architectural techniques to modernize legacy systems Discover how to design and continuously improve well-architected sustainable software Book Description Many organizations have embraced Agile methodologies to transform their ability to rapidly respond to constantly changing customer demands. However, in this melee, many enterprises often neglect to invest in architects by presuming architecture is not an intrinsic element of Agile software development. Since the role of an architect is not pre-defined in Agile, many organizations struggle to position architects, often resulting in friction with other roles or a failure to provide a clear learning path for architects to be productive. This book guides architects and organizations through new Agile ways of incrementally developing the architecture for delivering an uninterrupted, continuous flow of values that meets customer needs. You'll explore various aspects of Agile architecture and

how it differs from traditional architecture. The book later covers Agile architects' responsibilities and how architects can add significant value by positioning themselves appropriately in the Agile flow of work. Through examples, you'll also learn concepts such as architectural decision backlog, the last responsible moment, value delivery, architecting for change, DevOps, and evolutionary collaboration. By the end of this Agile book, you'll be able to operate as an architect in Agile development initiatives and successfully architect reliable software systems. What you will learn

Acquire clarity on the duties of architects in Agile development

Understand architectural styles such as domain-driven design and microservices

Identify the pitfalls of traditional architecture and learn how to develop solutions

Understand the principles of value and data-driven architecture

Discover DevOps and continuous delivery from an architect's perspective

Adopt Lean-Agile documentation and governance

Develop a set of personal and interpersonal qualities

Find out how to lead the transformation to achieve organization-wide agility

Who this book is for

This agile study guide is for architects currently working on agile development projects or aspiring to work on agile software delivery, irrespective of the methodology they are using. You will also find this book useful if you're a senior developer or a budding architect looking to understand an agile architect's role by embracing agile architecture strategies and a lean-agile mindset. To understand the concepts covered in this book easily, you need to have prior knowledge of basic agile development practices.

Emerging Research and Opportunities

Enterprise Service Oriented Architectures Concepts, Challenges, Recommendations

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

Achieving Service-Oriented Architecture

IGI Global

Enterprise Service Oriented

Architectures Concepts, Challenges, Recommendations Springer Science & Business Media

A Practical Roadmap to Agile Enterprises in the Digital Age IGI Global

Domain-driven design, extreme programming (XP), Scrum, and service-oriented architecture (SOA) are most widely accepted agile development practices. Today these agile development practices are combined with Design Thinking, Lean Startup, DevOps, microservice architecture (MSA), BizDevOps practices, etc. All these practices have a commonality. They all try to create the maximum value for the users of the software with minimal time and cost, and do so by releasing working software increments frequently to users, learn from the users' feedback and adapt the software to their needs. So these all can be regarded agile development practices. This book helps you understand the essence of agile development. The essential characteristics include value proposition, continuous and Lean delivery, validated learning, and software engineering competency. The essential characteristics of agile development are not peculiar. They are indeed very generic characteristics of properly reengineered business processes. They adopted common process reengineering patterns such as concurrent engineering, empowerment, job enrichment, flattened organization, Lean production, upstream shift, self-service, etc. This book goes beyond conceptual discussions about the essence of agile development. It shows practical examples of activities, work products and techniques that can be employed to perform agile development. More importantly it shows engineering principles that should be followed in producing work products in agile development. The reader will see how de facto standard languages such as ArchiMate, BPMN, UML and SoaML and their supporting tools can be used for agile requirement analysis and agile architecture design. Metamodels are presented which specify the dependencies among various elements in the models in different languages. It is shown that by following the engineering principles depicted in the metamodels, the contents of all kinds of work products produced in agile development become consistent and traceable with each other, thus cutting down the errors and the rework that would otherwise have been caused by inconsistency and incorrect transformations among the work products. Agile development based on new application platforms in the cloud (called

aPaaS) is also illustrated using real examples. The currently fastest way of performing agile development using the so-called low code development platforms (a.k.a., high-productivity aPaaS or BizDevOps platforms) is illustrated, too. The book introduces the reader to a recent standard published by OMG called Essence, which provides a kernel and a language to describe and enact software engineering methods. It is shown that the Essence can be used to manage an agile development project in an adaptive manner so that the project plan can be daily adjusted based on the observed state of the project. It is also shown that the Essence can be used to assemble various agile development practices (such as Design Thinking, agile modeling, agile architecture design, XP, Scrum, Lean Startup, etc.) into a coherent methodology for a specific program or project. The Value-Obsessed Lean Framework (VOLF) is presented as a framework with which an integrated agile development method can be composed for a specific program or project. The VOLF ensures that all elements in the method are consistent and traceable. One of the most important things to learn from this book is to understand what knowledge, skills, practices, techniques and tools software project team members need to be trained in and become capable of, in order to be successful in performing an agile development project. This book provides a very comprehensive insights into agile development. It will make you rethink about agile development as a business strategy and as a business process that help you survive and succeed through digital transformations.

Concepts, Challenges, Recommendations Prentice Hall Professional

You can have the best coders in the world working in your teams, but if your project management isn't up to scratch, your project is almost certain to be delayed, to come in over budget, and in some cases to fail entirely. By taking precise control of your application development process, you can make changes, both large and small, throughout your project's life cycle that will lead to better-quality finished products that are consistently delivered on time and within budget. Application lifecycle management (ALM) is an area of rapidly growing interest within the development community. Because its techniques allow you to deal with the process of developing applications across many areas of responsibility and across many different disciplines, its effects on your project can be wide ranging and pronounced. It is a project management

tool that has practical implications for the whole team—from architects to designers, from developers to testers. This book focuses on the most powerful ALM tool available for the Microsoft .NET Framework: Visual Studio Team System (VSTS). It demonstrates the key concepts and techniques of ALM and illustrates how they can be achieved using the tools VSTS provides in a clear succinct style. After reading the book, you will understand how VSTS can be used to generate continuous meaningful reporting on your project's health for the decision makers on your team as well as for your project's sponsors.

How Cloud Computing, REST-Based SOA, and Mobile Computing Are Changing Enterprise IT

iUniverse
The work addresses to specialists in informatics, with preoccupations in development of Business Intelligence systems, and also to beneficiaries of such systems, constituting an important scientific contribution. Experts in the field contribute with new ideas and concepts regarding the development of Business Intelligence applications and their adoption in organizations. This book presents both an overview of Business Intelligence and an in-depth analysis of current applications and future directions for this technology. The book covers a large area, including methods, concepts, and case studies related to: constructing an enterprise business intelligence maturity model, developing an agile architecture framework that leverages the strengths of business intelligence, decision management and service orientation, adding semantics to Business Intelligence, towards business intelligence over unified structured and unstructured data using XML, density-based clustering and anomaly detection, data mining based on neural networks.

Service-Driven Approaches to Architecture and Enterprise Integration John Wiley & Sons

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.

Service-Oriented Architecture (paperback) Pearson Education India

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

Combining Adaptive Methods and Flexible Solutions Independently Published

A comprehensive guide to exploring software architecture concepts and implementing best practices Key Features Enhance your skills to grow your career as a software architect Design efficient software architectures using patterns and best practices Learn how software architecture relates to an organization as well as software development methodology Book Description The Software Architect's Handbook is a comprehensive guide to help developers, architects, and senior programmers advance their career in the software architecture domain. This book takes you through all the important concepts, right from design principles to different considerations at various stages of your career in software architecture. The book begins by covering the fundamentals, benefits, and purpose of software architecture. You will discover how software architecture relates to an organization, followed by identifying its significant quality attributes. Once you have covered the basics, you will explore design patterns, best practices, and paradigms for efficient software development. The book discusses which factors you need to consider for performance and security enhancements. You will learn to write documentation for your architectures and make appropriate decisions when considering DevOps. In addition to this, you will explore how to design legacy applications before understanding how to create software architectures that evolve as the market, business requirements, frameworks, tools,

and best practices change over time. By the end of this book, you will not only have studied software architecture concepts but also built the soft skills necessary to grow in this field. What you will learn Design software architectures using patterns and best practices Explore the different considerations for designing software architecture Discover what it takes to continuously improve as a software architect Create loosely coupled systems that can support change Understand DevOps and how it affects software architecture Integrate, refactor, and re-architect legacy applications Who this book is for The Software Architect's Handbook is for you if you are a software architect, chief technical officer (CTO), or senior developer looking to gain a firm grasp of software architecture.

Building the Agile Enterprise Springer Nature

"A highly readable and yet comprehensive book on network businesses that have become governable with the advent of cloud and big data computing. Vivek Kale is a master of simplifying the complex world of network theory and its relevance to business." —Jagdish N. Sheth, Charles H. Kellstadt Professor of Marketing, Emory University Agile Network Businesses: Collaboration, Coordination, and Competitive Advantage reflects the shift from traditional networks to virtual and agile networks that enable businesses to operate dynamically, thereby representing markets more closely. This book enables IT managers and business decision-makers to understand clearly what network businesses and enterprises are, what they can do for them, and how to realize them. Customers in geographically dispersed markets are demanding higher quality products in a greater variety, at lower cost, and in a shorter time. Thus, enterprises have moved from a few centralized and vertically integrated facilities to geographically dispersed networks of capabilities, competencies and resources, which are the core of network businesses. Enterprises are now constructing more fluid network businesses in which each member facility focuses on differentiation and relies increasingly on its partners, suppliers, and customers to provide the rest. Network businesses have emerged as an organizational paradigm for collaboration and coordination across loosely connected individual organizations. This pragmatic book: Introduces network solutions and distributed systems that are a first step towards enabling a network enterprise. It also gives a detailed description of networks and agent system that have

paved the road to network enterprises. Describes the basics of service-oriented architecture (SOA), cloud computing, and big data that are essential to network enterprises. Details the distinguishing aspects of network enterprises, which include virtual enterprises, management of network enterprises, and collaborative network enterprises. Covers such major application areas as supply, manufacturing, e-business, platform, social and wireless sensor networks. Introduces decision networks in the context of supply chain networks This book reinterprets the traditional supply chain in terms of the flow of decisions, information, and materials, which leads to reconfiguring the traditional supply chain network into mutually separate decision networks (e.g., fourth-party logistics or 4PL), information networks (e.g., wireless sensor networks), and logistics networks (e.g., third-party logistics or 3PL). SOA Strategy, Methodology, and Technology Springer

Agile Architecture for Service Oriented Component Based Enterprises is a book detailing the construction of frameworks for that will increase productivity for software development at the same time support Agile Development.

Research Anthology on Agile Software, Software Development, and Testing IGI Global

The book covers four research domains representing a trend for modern manufacturing control: Holonic and Multi-agent technologies for industrial systems; Intelligent Product and Product-driven Automation; Service Orientation of

Enterprise's strategic and technical processes; and Distributed Intelligent Automation Systems. These evolution lines have in common concepts related to service orientation derived from the Service Oriented Architecture (SOA) paradigm. The service-oriented multi-agent systems approach discussed in the book is characterized by the use of a set of distributed autonomous and cooperative agents, embedded in smart components that use the SOA principles, being oriented by offer and request of services, in order to fulfil production systems and value chain goals. A new integrated vision combining emergent technologies is offered, to create control structures with distributed intelligence supporting the vertical and horizontal enterprise integration and running in truly distributed and global working environments. The service value creation model at enterprise level consists into using Service Component Architectures for business process applications, based on entities which handle services. In this componentization view, a service is a piece of software encapsulating the business/control logic or resource functionality of an entity that exhibits an individual competence and responds to a specific request to fulfil a local (product) or global (batch) objective. The service value creation model at enterprise level consists into using Service Component Architectures for business process applications, based on entities which handle services. In this componentization view, a service is a piece of software encapsulating the business/control logic or resource functionality of an entity that

exhibits an individual competence and responds to a specific request to fulfil a local (product) or global (batch) objective. *Design It!* IOS Press

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.

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