

Business Models Sparx Systems

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ArchiMate® 3.0.1 Specification - The Open Group 2017-09-28
The ArchiMate® Specification, an Open Group Standard, defines an open and independent modeling language for Enterprise Architecture that is supported by different tool vendors and consulting firms. The ArchiMate language enables Enterprise Architects to describe, analyze, and visualize the relationships among business domains in an unambiguous way. This book is the official specification of the ArchiMate 3.0.1 modeling language from The Open Group. ArchiMate 3.0.1 is a minor update to ArchiMate 3.0, containing the set of corrections from ArchiMate 3.0 Technical Corrigendum No. 1 (U172). This addresses inconsistencies and errors identified since the publication of Version 3.0 in June 2016. The ArchiMate Specification supports modeling throughout the TOGAF® Architecture Development Method (ADM). New features in Version 3 include elements for modeling the enterprise at a strategic level, such as capability, resource, and outcome. It also includes support to model the physical world of materials and equipment. Furthermore, the consistency and structure of the language have been improved, definitions have been aligned with other standards, and its usability has been enhanced in various other ways. The intended audience is threefold:

- Enterprise Architecture practitioners, such as architects (e.g., business, application, information, process, infrastructure, and,

obviously, enterprise architects), senior and operational management, project leaders, and anyone committed to work within the reference framework defined by the Enterprise Architecture.

- Those who intend to implement the ArchiMate language in a software tool; they will find a complete and detailed description of the language in this book.
- The academic community, on which we rely for amending and improving the language, based on state-of-the-art research results in the Enterprise Architecture field.

Conceptual Modeling for Discrete-Event Simulation - Stewart Robinson 2010-08-02

Bringing together an international group of researchers involved in military, business, and health modeling and simulation, Conceptual Modeling for Discrete-Event Simulation presents a comprehensive view of the current state of the art in the field. The book addresses a host of issues, including: What is a conceptual model? How is conceptual modeling performed in general and in specific modeling domains? What is the role of established approaches in conceptual modeling? Each of the book's six parts focuses on a different aspect of conceptual modeling for simulation. The first section discusses the purpose and requirements of a conceptual model. The next set of chapters provides frameworks and tools for conceptual modeling. The book then describes the use of soft

systems methodology for model structuring as well as the application of software engineering methods and tools for model specification. After illustrating how conceptual modeling is adopted in the military and semiconductor manufacturing, the book concludes with a discussion on future research directions. This volume offers a broad, multifaceted account of the field by presenting diverse perspectives on what conceptual modeling entails. It also provides a basis upon which these perspectives can be compared.

Modeling and Simulation in the Systems Engineering Life Cycle -

Margaret L. Loper 2015-04-30

This easy to read text provides a broad introduction to the fundamental concepts of modeling and simulation (M&S) and systems engineering, highlighting how M&S is used across the entire systems engineering lifecycle. Features: reviews the full breadth of technologies, methodologies and uses of M&S, rather than just focusing on a specific aspect of the field; presents contributions from specialists in each topic covered; introduces the foundational elements and processes that serve as the groundwork for understanding M&S; explores common methods and methodologies used in M&S; discusses how best to design and execute experiments, covering the use of Monte Carlo techniques, surrogate modeling and distributed simulation; explores the use of M&S throughout the systems development lifecycle, describing a number of methods, techniques, and tools available to support systems engineering processes; provides a selection of case studies illustrating the use of M&S in systems engineering across a variety of domains.

[Panorama 360 Insurance and Wealth Management Enterprise Business Architecture Framework](#) - Insurance Frameworks Inc. 2016-12-15

Panorama 360 - The Insurance and Wealth Management Enterprise Business Architecture Framework is the definitive reference for managing organizations, business processes and technology. Panorama 360 is used as an accelerator by insurance and wealth management organizations throughout the world. The Preface is written by: President and Chief Operating Officer of an Insurance Company Chief Architect of an Insurance Company Chair of OMG's BPMN MIWG Retired Senior

Director, Oracle Insurance Business Unit SPEED - QUALITY - REDUCED COSTS Panorama 360 Enterprise Business Architecture Framework is globally recognized as the most extensive and comprehensive reference model for managing organizations as well as planning, designing, developing and implementing business processes and technology. Panorama 360 was developed over several years by senior insurance business and IT executives who have worked in 9 countries with more than 100 insurance and wealth management companies. This 4th version of Panorama 360 (456 pages) includes: Approach on building efficient business processes using Panorama 360 Full description of all business functions plus business capabilities found in an insurance and wealth management organization Full description of all related information components including their information structures Business relationships between functions and information The Panorama 360 Enterprise Business Architecture Framework is successfully used in several situations such as: Strategic planning Organizational planning Business and IT architectures Digital transformation Process Improvement Business requirements Software evaluations Information management Mergers and acquisitions Training new employees Activity Based Costing Risk Management Management of Change Whether you are an insurance company, a consulting organization, an independent consultant or a technology vendor, Panorama 360 Enterprise Business Architecture Framework is a key resource to create value, reduce costs while increasing quality and speed. Pierre Gagne is President of Insurance Frameworks Inc. a global company focused on the Insurance and Wealth Management industry knowledge. He is the creator of Panorama 360, a set of reference material to manage organizations, processes and technology.

Enterprise, Business-Process and Information Systems Modeling - Iris Reinhartz-Berger 2019-05-22

This book constitutes the proceedings of two events held at the CAiSE conference and relating to the areas of enterprise, business process and information systems modeling: The 20th International Conference on Business Process Modeling, Development and Support, BPMDS 2019,

and the 24th International Conference on Evaluation and Modeling Methods for Systems Analysis and Development, EMMSAD 2019. The conferences took place in Rome, Italy, in June 2019. The 7 full and 2 short papers accepted for BPMDS were carefully reviewed and selected from a total of 20 submissions; for EMMSAD 15 full papers were accepted from 38 submissions. The papers were organized in topical sections named as follows: BPMDS: large and complex business process modeling and development; execution and understandability of declarative process models; novel approaches in enterprise modeling; transformative business process modeling, development, and support. EMMSAD: foundations of modeling and method engineering; enterprise process and capability modeling; information systems and requirements modeling; domain-specific and ontology modeling; and evaluation of modeling approaches.

Cloud Enterprise Architecture - Pethuru Raj 2013-03-21

Cloud Enterprise Architecture examines enterprise architecture (EA) in the context of the surging popularity of Cloud computing. It explains the different kinds of desired transformations the architectural blocks of EA undergo in light of this strategically significant convergence. Chapters cover each of the contributing architectures of EA—business, information, application, integration, security, and technology—illustrating the current and impending implications of the Cloud on each. Discussing the implications of the Cloud paradigm on EA, the book details the perceptible and positive changes that will affect EA design, governance, strategy, management, and sustenance. The author ties these topics together with chapters on Cloud integration and composition architecture. He also examines the Enterprise Cloud, Federated Clouds, and the vision to establish the InterCloud. Laying out a comprehensive strategy for planning and executing Cloud-inspired transformations, the book: Explains how the Cloud changes and affects enterprise architecture design, governance, strategy, management, and sustenance Presents helpful information on next-generation Cloud computing Describes additional architectural types such as enterprise-scale integration, security, management, and governance architectures

This book is an ideal resource for enterprise architects, Cloud evangelists and enthusiasts, and Cloud application and service architects. Cloud center administrators, Cloud business executives, managers, and analysts will also find the book helpful and inspirational while formulating appropriate mechanisms and schemes for sound modernization and migration of traditional applications to Cloud infrastructures and platforms.

Architectural Patterns - Pethuru Raj Chelliah 2017-12-22

Learn the importance of architectural and design patterns in producing and sustaining next-generation IT and business-critical applications with this guide. About This Book Use patterns to tackle communication, integration, application structure, and more Implement modern design patterns such as microservices to build resilient and highly available applications Choose between the MVP, MVC, and MVVM patterns depending on the application being built Who This Book Is For This book will empower and enrich IT architects (such as enterprise architects, software product architects, and solution and system architects), technical consultants, evangelists, and experts. What You Will Learn Understand how several architectural and design patterns work to systematically develop multitier web, mobile, embedded, and cloud applications Learn object-oriented and component-based software engineering principles and patterns Explore the frameworks corresponding to various architectural patterns Implement domain-driven, test-driven, and behavior-driven methodologies Deploy key platforms and tools effectively to enable EA design and solutioning Implement various patterns designed for the cloud paradigm In Detail Enterprise Architecture (EA) is typically an aggregate of the business, application, data, and infrastructure architectures of any forward-looking enterprise. Due to constant changes and rising complexities in the business and technology landscapes, producing sophisticated architectures is on the rise. Architectural patterns are gaining a lot of attention these days. The book is divided in three modules. You'll learn about the patterns associated with object-oriented, component-based, client-server, and cloud architectures. The second module covers

Enterprise Application Integration (EAI) patterns and how they are architected using various tools and patterns. You will come across patterns for Service-Oriented Architecture (SOA), Event-Driven Architecture (EDA), Resource-Oriented Architecture (ROA), big data analytics architecture, and Microservices Architecture (MSA). The final module talks about advanced topics such as Docker containers, high performance, and reliable application architectures. The key takeaways include understanding what architectures are, why they're used, and how and where architecture, design, and integration patterns are being leveraged to build better and bigger systems. Style and Approach This book adopts a hands-on approach with real-world examples and use cases.

Enterprise Architecture for Integration - Clive Finkelstein 2006-01-01

The enterprise architecture methods of enterprise engineering as described in this book enable business experts and IT experts together to identify reusable business activities, processes and integrated databases. Three main sections cover enterprise architecture for managers, methodology, and integration technologies.

Business Modeling with UML - Hans-Erik Eriksson 2000-02-09

"An excellent hands-on book for practitioners eager to document the internal structure and everyday workings of business processes. This clear and practical book belongs on the shelf of everyone dedicated to mapping, maintaining, and streamlining business processes." -Richard Mark Soley, Phd, Chairman and CEO, OMG "Eriksson and Penker have not just written another patterns book; this is a significant contribution to the key field of business-IT alignment. While capturing profound academic insights, what makes the book so refreshing from a practitioner's viewpoint is the richness of accessible, down-to-earth examples and its pragmatic, unpretentious style." -Paul allen Principal of CBD Strategies and Architectures, Sterling Software "UML may have been designed by and for software engineers, but Eriksson and Penker have defined a practical extension to UML for describing business processes. They put this extended UML immediately to use with a gallery of common business patterns that should jump start any BPR effort." -

Philippe Krchten, Director of Process Development Rational Software "This book is a marriage between proven business modeling concepts and the techniques of UML. It provides real-world strategies for developing large-scale, mission-critical business systems in a manner accessible to both software and business professionals." -ScottW. Ambler, Author of Process Patterns Following up on their bestselling book, UML Toolkit, Hans-Erik Eriksson and Magnus Penker now provide expert guidance on how to use UML to model your business systems. In this informative book, key business modeling concepts are presented, including how to define Business Rules with UML's Object Constraint Language (OCL) and how to use business models with use cases. The authors then provide 26 valuable Business Patterns along with an e-business case study that utilizes the techniques and patterns discussed in the book. Visit our Web site at www.wiley.com/compbooks/

The Agent Modeling Language - AML - Radovan Cervenka 2007-04-17

Multi-agent systems have been a focus of studies for more than 25 years. Yet, despite substantial effort of an active research community, modeling of multi-agent systems still lacks complete and proper definition, general acceptance, and practical application. This book provides the Agent-Modeling Language (AML), a comprehensive modeling language as an extension of UML 2.0, concentrating on multi-agent systems and applications.

Software Engineering - Elvis C. Foster 2021-07-20

Software Engineering: A Methodical Approach (Second Edition) provides a comprehensive, but concise introduction to software engineering. It adopts a methodical approach to solving software engineering problems, proven over several years of teaching, with outstanding results. The book covers concepts, principles, design, construction, implementation, and management issues of software engineering. Each chapter is organized systematically into brief, reader-friendly sections, with itemization of the important points to be remembered. Diagrams and illustrations also sum up the salient points to enhance learning. Additionally, the book includes the author's original methodologies that add clarity and creativity to the software engineering experience. New in the Second Edition are

chapters on software engineering projects, management support systems, software engineering frameworks and patterns as a significant building block for the design and construction of contemporary software systems, and emerging software engineering frontiers. The text starts with an introduction of software engineering and the role of the software engineer. The following chapters examine in-depth software analysis, design, development, implementation, and management. Covering object-oriented methodologies and the principles of object-oriented information engineering, the book reinforces an object-oriented approach to the early phases of the software development life cycle. It covers various diagramming techniques and emphasizes object classification and object behavior. The text features comprehensive treatments of: Project management aids that are commonly used in software engineering An overview of the software design phase, including a discussion of the software design process, design strategies, architectural design, interface design, database design, and design and development standards User interface design Operations design Design considerations including system catalog, product documentation, user message management, design for real-time software, design for reuse, system security, and the agile effect Human resource management from a software engineering perspective Software economics Software implementation issues that range from operating environments to the marketing of software Software maintenance, legacy systems, and re-engineering This textbook can be used as a one-semester or two-semester course in software engineering, augmented with an appropriate CASE or RAD tool. It emphasizes a practical, methodical approach to software engineering, avoiding an overkill of theoretical calculations where possible. The primary objective is to help students gain a solid grasp of the activities in the software development life cycle to be confident about taking on new software engineering projects.

Enterprise Architectures and Digital Administration - Ambrose Goikoetxea 2007

This is the first book that addresses all three main activities in improving business and technology decisions: the planning, design and assessment

of enterprise architectures (EAs). Emphasis is on medium and large-size organizations in the private sector (such as banks, airlines and auto industries) and the public sector (such as federal agencies, local government organizations and military services in the Department of Defense). The book addresses the challenges faced by EA builders through an organized presentation of the issues and a step-by-step approach. The material is based on real-life EA project experience and lessons learned over a decade working in multiple-contractor, multiple-discipline teams, and multiple-agency environments.

Emerging Trends in Computing zncrtc 2010 -

Fifty Enterprise Architect Tricks - Peter Doomen 2010-12-17

Database Systems - Elvis C. Foster 2022-09-26

This book provides a concise but comprehensive guide to the disciplines of database design, construction, implementation, and management. Based on the authors' professional experience in the software engineering and IT industries before making a career switch to academia, the text stresses sound database design as a necessary precursor to successful development and administration of database systems. The discipline of database systems design and management is discussed within the context of the bigger picture of software engineering. Students are led to understand from the outset of the text that a database is a critical component of a software infrastructure, and that proper database design and management is integral to the success of a software system. Additionally, students are led to appreciate the huge value of a properly designed database to the success of a business enterprise. The text was written for three target audiences. It is suited for undergraduate students of computer science and related disciplines who are pursuing a course in database systems, graduate students who are pursuing an introductory course to database, and practicing software engineers and information technology (IT) professionals who need a quick reference on database design. Database Systems: A Pragmatic Approach, 3rd Edition discusses concepts, principles, design,

implementation, and management issues related to database systems. Each chapter is organized into brief, reader-friendly, conversational sections with itemization of salient points to be remembered. This pragmatic approach includes adequate treatment of database theory and practice based on strategies that have been tested, proven, and refined over several years. Features of the third edition include: Short paragraphs that express the salient aspects of each subject Bullet points itemizing important points for easy memorization Fully revised and updated diagrams and figures to illustrate concepts to enhance the student's understanding Real-world examples Original methodologies applicable to database design Step-by-step, student-friendly guidelines for solving generic database systems problems Opening chapter overviews and concluding chapter summaries Discussion of DBMS alternatives such as the Entity-Attributes-Value model, NoSQL databases, database-supporting frameworks, and other burgeoning database technologies A chapter with sample assignment questions and case studies This textbook may be used as a one-semester or two-semester course in database systems, augmented by a DBMS (preferably Oracle). After its usage, students will come away with a firm grasp of the design, development, implementation, and management of a database system.

Integrating E-Business Models for Government Solutions: Citizen-Centric Service Oriented Methodologies and Processes - Chhabra, Susheel 2009-02-28

"The objective of this book is to examine issues and promote research initiatives in the area of effectiveness in e-government by suggesting integrated e-business models for government solutions, through citizen-centric service oriented methodologies and processes"--Provided by publisher.

Practical Model-Driven Enterprise Architecture - Mudar Bahri
2022-05-13

Bridge the gap between theory and reality by implementing real-world examples using the Sparx EA tool and ArchiMate® 3.1 specification to develop sophisticated enterprise architecture models serving every unit

in your organization Key Features • Discover the various artifacts that enterprise architects need to develop for stakeholders to make sound decisions • Build a functional enterprise architecture repository that is rich in information, references, and metamodels • Learn how to use Sparx Enterprise Architect from scratch Book Description Most organizations face challenges in defining and achieving evolved enterprise architecture practices, which can be a very lengthy process even if implemented correctly. Developers, for example, can build better solutions only if they receive the necessary design information from architects, and decision-makers can make appropriate changes within the organization only if they know the implications of doing so. The book starts by addressing the problems faced by enterprise architecture practitioners and provides solutions based on an agile approach to enterprise architecture, using ArchiMate® 3.1 as an industry standard and Sparx EA as the modeling tool. You'll learn with the help of a fictional organization that has three business units, each expecting something different from you as the enterprise architect. You'll build the practice, satisfy the different requirements of each business unit, and share the knowledge with others so they can follow your steps. Toward the end, you'll learn how to put the diagrams and the content that you have developed into documents, presentations, and web pages that can be published and shared with any stakeholder. By the end of this book, you'll be able to build a functional enterprise architecture practice that supports every part of your organization. You'll also have developed the necessary skills to populate your enterprise architecture repository with references and artifacts. What you will learn • Discover how enterprise architects can contribute to projects and departments within organizations • Use Sparx Enterprise Architect to build a rich architecture repository • Learn about the ArchiMate® 3.1 specification as you apply it in real-world projects • Use the focused metamodel technique to build the information necessary for maintaining your repository's consistency and accuracy • Understand the importance of keeping architectural artifacts simple yet eye-catching • Define an operational model that fits your initial needs and expands as required

Who this book is for This book is for enterprise architects at all architectural layers and practices of any maturity level. Many of the artifacts suggested in this book are inspired by The Open Group Architecture Framework (TOGAF®); however, familiarity with TOGAF® is not required. Whether you work within the business, applications, data, or technology layers, this book covers examples that apply to your work. Although not mandatory, experience modeling in Sparx Systems Enterprise Architect using any modeling language will be helpful. No prior knowledge of ArchiMate® is required to get started with this book.

Model-Driven Domain Analysis and Software Development: Architectures and Functions - Osis, Janis 2010-10-31

"This book displays how to effectively map and respond to the real-world challenges and purposes which software must solve, covering domains such as mechatronic, embedded and high risk systems, where failure could cost human lives"--Provided by publisher.

Simple SysML for Beginners - David Hetherington 2020-02-07
Simple SysML for Beginners Using Sparx Enterprise Architect is for beginners. The book assumes that you have just purchased a copy of Enterprise Architect and are anxious to get started, but otherwise don't know too much about SysML and don't have much experience using Enterprise Architect or any other similar tool. There are several good books on the market about SysML. However, these books show only finished diagrams. They don't cover the steps needed to construct the models and the diagrams. These steps can be remarkably complicated; the sequence of steps needed to construct the underlying model for a diagram is often less than obvious when using a real SysML tool. The purpose of this book is to help you get through the initial learning curve and get you on your way to becoming proficient at SysML modeling.

Internet - Technical Developments and Applications 2 - Adrian Kapczyński 2012-02-14

The unusual direct progress of civilization in many fields concerning technical sciences is being observed in the period of last two decades. Experiencing extraordinary dynamics of the development of technological processes, particularly in ways of communicating, makes

us believe that the information society is coming into existence. Having the information in today's world of changing attitudes and socio-economic conditions can be perceived as one of the most important advantages. The content of this book is divided into four parts: Mathematical and technical fundamentals Information management systems and project management Information security and business continuity management Interdisciplinary problems This monograph has been prepared to contribute in a significant way to the success of implementing consequences of human imagination into social life. The authors believe that this monograph will influence the further technology development regarding IT with constantly expanding spectrum of its applications.

Security Compliance in Model-driven Development of Software Systems in Presence of Long-Term Evolution and Variants - Sven Matthias Peldszus 2022-08-14

For ensuring a software system's security, it is vital to keep up with changing security precautions, attacks, and mitigations. Although model-based development enables addressing security already at design-time, design models are often inconsistent with the implementation or among themselves. An additional burden are variants of software systems. To ensure security in this context, we present an approach based on continuous automated change propagation, allowing security experts to specify security requirements on the most suitable system representation. We automatically check all system representations against these requirements and provide security-preserving refactorings for preserving security compliance. For both, we show the application to variant-rich software systems. To support legacy systems, we allow to reverse-engineer variability-aware UML models and semi-automatically map existing design models to the implementation. Besides evaluations of the individual contributions, we demonstrate the approach in two open-source case studies, the iTrust electronics health records system and the Eclipse Secure Storage.

The Decision Model - Barbara von Halle 2009-10-27

In the current fast-paced and constantly changing business environment,

it is more important than ever for organizations to be agile, monitor business performance, and meet with increasingly stringent compliance requirements. Written by pioneering consultants and bestselling authors with track records of international success, *The Decision Model: A Business Logic Framework Linking Business and Technology* provides a platform for rethinking how to view, design, execute, and govern business logic. The book explains how to implement the Decision Model, a stable, rigorous model of core business logic that informs current and emerging technology. The authors supply a strong theoretical foundation, while succinctly defining the path needed to incorporate agile and iterative techniques for developing a model that will be the cornerstone for continual growth. Because the book introduces a new model with tentacles in many disciplines, it is divided into three sections: Section 1: A Complete overview of the Decision Model and its place in the business and technology world Section 2: A Detailed treatment of the foundation of the Decision Model and a formal definition of the Model Section 3: Specialized topics of interest on the Decision Model, including both business and technical issues The Decision Model provides a framework for organizing business rules into well-formed decision-based structures that are predictable, stable, maintainable, and normalized. More than this, the Decision Model directly correlates business logic to the business drivers behind it, allowing it to be used as a lever for meeting changing business objectives and marketplace demands. This book not only defines the Decision Model and but also demonstrates how it can be used to organize decision structures for maximum stability, agility, and technology independence and provide input into automation design.

The Common Information Model CIM - Mathias Uslar 2012-02-01

Within the Smart Grid, the combination of automation equipment, communication technology and IT is crucial. Interoperability of devices and systems can be seen as the key enabler of smart grids. Therefore, international initiatives have been started in order to identify interoperability core standards for Smart Grids. IEC 62357, the so called Seamless Integration Architecture, is one of these very core standards,

which has been identified by recent Smart Grid initiatives and roadmaps to be essential for building and managing intelligent power systems. The Seamless Integration Architecture provides an overview of the interoperability and relations between further standards from IEC TC 57 like the IEC 61970/61968: Common Information Model - CIM. CIM has proven to be a mature standard for interoperability and engineering; consequently, it is a cornerstone of the IEC Smart Grid Standardization Roadmap. This book provides an overview on how the CIM developed, in which international projects and roadmaps is has already been covered and describes the basic use cases for CIM. This book has been written for both Power Engineers trying to get to know the EMS and business IT part of Smart Grid and for Computer Scientist finding out where ICT technology is applied in EMS and DMS Systems. The book is divided into two parts dealing with the theoretical foundations and a practical part describing tools and use cases for CIM.

Archimate(r) 3.1 Specification - Van Haren Publishing 2020-02

The ArchiMate(R) Specification, a standard of The Open Group, defines an open and independent modeling language for Enterprise Architecture that is supported by different tool vendors and consulting firms. The ArchiMate language enables Enterprise Architects to describe, analyze, and visualize the relationships among business domains in an unambiguous way. This book is the official specification of the ArchiMate 3.1 modeling language from The Open Group. This edition of the standard includes a number of corrections, clarifications, and improvements to the previous edition, as well as several additions. The main changes between Version 3.0.1 and Version 3.1 of the ArchiMate Specification are listed below. In addition to these changes, various other minor improvements in definitions and other wording have been made: □Introduced a new strategy element: value stream □Added an optional directed notation for the association relationship □Improved the organization of the metamodel and associated figures □Further improved and formalized the derivation of relationships The intended audience is threefold: 1. Enterprise Architecture practitioners, such as architects (e.g., business, application, information, process, infrastructure, and,

obviously, enterprise architects), senior and operational management, project leaders, and anyone committed to work within the reference framework defined by the Enterprise Architecture. 2. Those who intend to implement the ArchiMate language in a software tool; they will find a complete and detailed description of the language in this book. - The academic community, on which we rely for amending and improving the language, based on state-of-the-art research results in the Enterprise Architecture field.

Agile Development with ICONIX Process - Don Rosenberg
2006-11-22

*Describes an agile process that works on large projects *Ideal for hurried developers who want to develop software in teams *Incorporates real-life C#/.NET web project; can compare this with cases in book
Parallel Agile - faster delivery, fewer defects, lower cost - Doug Rosenberg 2020-01-03

From the beginning of software time, people have wondered why it isn't possible to accelerate software projects by simply adding staff. This is sometimes known as the "nine women can't make a baby in one month" problem. The most famous treatise declaring this to be impossible is Fred Brooks' 1975 book *The Mythical Man-Month*, in which he declares that "adding more programmers to a late software project makes it later," and indeed this has proven largely true over the decades. Aided by a domain-driven code generator that quickly creates database and API code, Parallel Agile (PA) achieves significant schedule compression using parallelism: as many developers as necessary can independently and concurrently develop the scenarios from initial prototype through production code. Projects can scale by elastic staffing, rather than by stretching schedules for larger development efforts. Schedule compression with a large team of developers working in parallel is analogous to hardware acceleration of compute problems using parallel CPUs. PA has some similarities with and differences from other Agile approaches. Like most Agile methods, PA "gets to code early" and uses feedback from executable software to drive requirements and design. PA uses technical prototyping as a risk-mitigation strategy, to help sanity-

check requirements for feasibility, and to evaluate different technical architectures and technologies. Unlike many Agile methods, PA does not support "design by refactoring," and it doesn't drive designs from unit tests. Instead, PA uses a minimalist UML-based design approach (Agile/ICONIX) that starts out with a domain model to facilitate communication across the development team, and partitions the system along use case boundaries, which enables parallel development. Parallel Agile is fully compatible with the Incremental Commitment Spiral Model (ICSM), which involves concurrent effort of a systems engineering team, a development team, and a test team working alongside the developers. The authors have been researching and refining the PA process for several years on multiple test projects that have involved over 200 developers. The book's example project details the design of one of these test projects, a crowdsourced traffic safety system.

Model-Driven Engineering and Software Development - Luís Ferreira Pires 2018-07-07

This book constitutes thoroughly revised and selected papers from the 5th International Conference on Model-Driven Engineering and Software Development, MODELSWARD 2017, held in Porto, Portugal, in February 2017. The 20 thoroughly revised and extended papers presented in this volume were carefully reviewed and selected from 91 submissions. They contribute to the development of highly relevant research trends in model-driven engineering and software development such as methodologies for MDD development and exploitation, model-based testing, model simulation, domain-specific modeling, code generation from models, new MDD tools, multi-model management, model evolution, and industrial applications of model-based methods and technologies.

SYSMOD - The Systems Modeling Toolbox - Pragmatic MBSE with SysML - Tim Weilkiens 2016-12-03

SYSMOD is an MBSE toolbox for pragmatic modeling of systems. It is well-suited to be used with SysML. The book provides a set of methods with roles and outputs. Concrete guidances and examples show how to apply the methods with SysML. * Requirements modeling * System Context * Use Cases * Functional, Physical, Logical and Product

Architectures * Guidances how to create a SysML model * Full-fledged SysML example * Complete definition of a profile for SYSMOD This book is also available as an eBook at leanpub.com/sysmod.

Practical Model-Driven Enterprise Architecture - Mudar Bahri
2022-05-13

Bridge the gap between theory and reality by implementing real-world examples using the Sparx EA tool and ArchiMate(R) 3.1 specification to develop sophisticated enterprise architecture models serving every unit in your organization Key Features: Discover the various artifacts that enterprise architects need to develop for stakeholders to make sound decisions Build a functional enterprise architecture repository that is rich in information, references, and metamodels Learn how to use Sparx Enterprise Architect from scratch Book Description: Most organizations face challenges in defining and achieving evolved enterprise architecture practices, which can be a very lengthy process even if implemented correctly. Developers, for example, can build better solutions only if they receive the necessary design information from architects, and decision-makers can make appropriate changes within the organization only if they know the implications of doing so. The book starts by addressing the problems faced by enterprise architecture practitioners and provides solutions based on an agile approach to enterprise architecture, using ArchiMate(R) 3.1 as an industry standard and Sparx EA as the modeling tool. You'll learn with the help of a fictional organization that has three business units, each expecting something different from you as the enterprise architect. You'll build the practice, satisfy the different requirements of each business unit, and share the knowledge with others so they can follow your steps. Toward the end, you'll learn how to put the diagrams and the content that you have developed into documents, presentations, and web pages that can be published and shared with any stakeholder. By the end of this book, you'll be able to build a functional enterprise architecture practice that supports every part of your organization. You'll also have developed the necessary skills to populate your enterprise architecture repository with references and artifacts. What You Will Learn: Discover how enterprise architects can contribute

to projects and departments within organizations Use Sparx Enterprise Architect to build a rich architecture repository Learn about the ArchiMate(R) 3.1 specification as you apply it in real-world projects Use the focused metamodel technique to build the information necessary for maintaining your repository's consistency and accuracy Understand the importance of keeping architectural artifacts simple yet eye-catching Define an operational model that fits your initial needs and expands as required Who this book is for: This book is for enterprise architects at all architectural layers and practices of any maturity level. Many of the artifacts suggested in this book are inspired by The Open Group Architecture Framework (TOGAF(R)); however, familiarity with TOGAF(R) is not required. Whether you work within the business, applications, data, or technology layers, this book covers examples that apply to your work. Although not mandatory, experience modeling in Sparx Systems Enterprise Architect using any modeling language will be helpful. No prior knowledge of ArchiMate(R) is required to get started with this book.

Advancements in Model-Driven Architecture in Software Engineering - Rhazali, Yassine 2020-09-18

An integral element of software engineering is model engineering. They both endeavor to minimize cost, time, and risks with quality software. As such, model engineering is a highly useful field that demands in-depth research on the most current approaches and techniques. Only by understanding the most up-to-date research can these methods reach their fullest potential. Advancements in Model-Driven Architecture in Software Engineering is an essential publication that prepares readers to exercise modeling and model transformation and covers state-of-the-art research and developments on various approaches for methodologies and platforms of model-driven architecture, applications and software development of model-driven architecture, modeling languages, and modeling tools. Highlighting a broad range of topics including cloud computing, service-oriented architectures, and modeling languages, this book is ideally designed for engineers, programmers, software designers, entrepreneurs, researchers, academicians, and students.

Use Case Driven Object Modeling with UML Theory and Practice - Don Rosenberg 2008-06-28

Diagramming and process are important topics in today's software development world, as the UML diagramming language has come to be almost universally accepted. Yet process is necessary; by themselves, diagrams are of little use. Use Case Driven Object Modeling with UML - Theory and Practice combines the notation of UML with a lightweight but effective process - the ICONIX process - for designing and developing software systems. ICONIX has developed a growing following over the years. Sitting between the free-for-all of Extreme Programming and overly rigid processes such as RUP, ICONIX offers just enough structure to be successful.

eWork and eBusiness in Architecture, Engineering and Construction. ECPPM 2006 - Manuel Martinez 2006-08-24

The task of structuring information on built environment has presented challenges to the research community, software developers and the industry for the last 20 years. Recent work has taken advantage of Web and industry standards such as XML, OWL, IFC and STEP. Another important technology for the fragmented AEC industry is digital communication. Wired or wireless, it brings together architects, engineers and construction site workers, enabling them to exchange information, communicate and work together. Virtual enterprise organization structures, involving mobile teams over distance, are highly compatible with the needs of the construction industry.

SysML Distilled - Lenny Delligatti 2014

SysML Distilled is a go-to reference for everyone who wants to start creating accurate and useful system models with SysML. Drawing on his pioneering experience creating models for Lockheed Martin and NASA, Lenny Delligatti illuminates SysML's core components, and shows how to use them even under tight deadlines and other constraints. The reader needn't know all of SysML to create effective models: SysML Distilled quickly teaches what does need to be known, and helps deepen the reader's knowledge incrementally as the need arises.

ArchiMate® 2.1 Specification - The Open Group 2016-01-01

ArchiMate®, an Open Group Standard, is an open and independent modelling language for Enterprise Architecture that is supported by different tool vendors and consulting firms. ArchiMate provides instruments to enable enterprise architects to describe, analyze, and visualize the relationships among business domains in an unambiguous way. This book provides the official specification of ArchiMate 2.1 from The Open Group. ArchiMate 2.1 is a maintenance update to ArchiMate 2.0, addressing comments raised since the introduction of ArchiMate 2.0 in 2012. The ArchiMate 2.1 Standard supports modelling throughout the TOGAF® Architecture Development Method (ADM). The intended audience is threefold: Enterprise Architecture practitioners, such as architects (e.g. application, information, process, infrastructure, and, obviously, enterprise architects), senior and operational management, project leaders, and anyone committed to work within the reference framework defined by the Enterprise Architecture. Those who intend to implement ArchiMate in a software tool; they will find a complete and detailed description of the language in this book. The academic community, on which we rely for amending and improving the language, based on state-of-the-art research results in the enterprise architecture field.

Agile Systems Engineering - Bruce Powel Douglass 2015-09-24

Agile Systems Engineering presents a vision of systems engineering where precise specification of requirements, structure, and behavior meet larger concerns as such as safety, security, reliability, and performance in an agile engineering context. World-renown author and speaker Dr. Bruce Powel Douglass incorporates agile methods and model-based systems engineering (MBSE) to define the properties of entire systems while avoiding errors that can occur when using traditional textual specifications. Dr. Douglass covers the lifecycle of systems development, including requirements, analysis, design, and the handoff to specific engineering disciplines. Throughout, Dr. Douglass couples agile methods with SysML and MBSE to arm system engineers with the conceptual and methodological tools they need to avoid specification defects and improve system quality while simultaneously

reducing the effort and cost of systems engineering. Identifies how the concepts and techniques of agile methods can be effectively applied in systems engineering context Shows how to perform model-based functional analysis and tie these analyses back to system requirements and stakeholder needs, and forward to system architecture and interface definition Provides a means by which the quality and correctness of systems engineering data can be assured (before the entire system is built!) Explains agile system architectural specification and allocation of functionality to system components Details how to transition engineering specification data to downstream engineers with no loss of fidelity Includes detailed examples from across industries taken through their stages, including the "Waldo" industrial exoskeleton as a complex system

Future And Fintech, The: Abcdi And Beyond - Jun Xu 2022-05-05

The Future and FinTech examines the fundamental financial technologies and its growing impact on the Banking, Financial Services and Insurance (BFSI) sectors. With global investment amounting to more than \$100 billion in 2020, the proliferation of FinTech has underpinned the direction payments, loans, wealth management, insurance, and cryptocurrencies are heading. This book presents FinTech from an industrial perspective in the context of architecture and its basic building blocks, e.g., Artificial Intelligence (AI), Blockchain, Cloud, Big Data, Internet of Things (IoT), and its connections to real-life applications at work. It provides a detailed guidance on how FinTech digitalizes business operations, improves productivity and efficiency, and optimizes resource management with the help of some new concepts, such as AIOps, MLOps and DevSecOps. Readers will also discover how FinTech Innovations connect BFSI to the rest of the world with growing interests in Open Banking, Banking-as-a-Service (BaaS) and FinTech-as-a-Service (FaaS). To help readers understand how FinTech has unlocked numerous opportunities for tapping into the massive substantial group of customers, this book illustrates the massive changes already underway and provides insights into changes yet to come through practical examples and applications with illustrative figures and summary tables, making this book a handy quick reference for all things of

FinTech.Related Link(s)

Business Modeling and Software Design - Boris Shishkov 2021-07-01
This book constitutes the refereed proceedings of the 11th International Symposium on Business Modeling and Software Design, BMSD 2021, which took place in Sofia, Bulgaria, in July 2021. The 14 full and 13 short papers included in this book were carefully reviewed and selected from a total of 61 submissions. BMSD is a leading international forum that brings together researchers and practitioners interested in business modeling and its relation to software design. Particular areas of interest are: Business Processes and Enterprise Engineering; Business Models and Requirements; Business Models and Services; Business Models and Software; Information Systems Architectures and Paradigms; Data Aspects in Business Modeling and Software Development; Blockchain-Based Business Models and Information Systems; IoT and Implications for Enterprise Information Systems. The BMSD 2021 theme was: Towards Enterprises and Software that are Resilient against Disruptive Events.

Mastering ArchiMate - Gerben Wierda 2014-03

Mastering ArchiMate is a book about the ArchiMate(r) Enterprise Architecture Modeling Language, which is an open standard and a Registered Trade Mark of The Open Group. This book gives an introduction to the language and then goes on to show you many different patterns for its use. From Business to Infrastructure, from Risk & Security to Application Exploitation and Maintenance. The first edition was published in 2012 and quickly became widely used. The Open Group even published a white paper "ArchiMate, Understanding the Basics" that was almost literally taken from the ArchiMate Basics chapter of the first edition of this book. This second edition has twice the diagrams in a book roughly one and a half times the pages of the first edition. There are several new subjects, like linking ArchiMate to BPMN. It has been updated to ArchiMate 2.1. Gerben Wierda (1961) is Lead Architect of APG Asset Management, one of the largest Fiduciary Managers in the world. He has overseen the construction of one of the largest single ArchiMate models in the world to date. He holds an M.Sc. in Physics

from the University of Groningen and an MBA from RSM Erasmus, Rotterdam.

Realize Enterprise Architecture with AWS and SAFe - Rajnish Harjika
2022-09-16

Harness the power of enterprise architecture, AWS, and agile methodologies to optimize operational efficiency in your organization

Key Features Use EA and agile practices to maximize your organization's operational efficiency Learn how to use EA approaches in AWS through their prescriptive frameworks Align SAFe principles with EA and cloud migration Book Description Agile implementation of enterprise architecture (EA) in the cloud is a powerful organizational tool, but it is challenging, particularly for architects who are used to on-premises environments. This in-depth guide will tell you all you need to know to reap the benefits of applying EA in your organization to achieve operational efficiency. Starting with an overview of the foundations of enterprise architecture, you'll see how it can be applied to AWS as well as explore the frameworks AWS provides for EA, such as the AWS Well-Architected Framework. That's not all - the book shows you how these frameworks align with The Open Group Architecture Framework (TOGAF) architecture development method (ADM) and the Zachman Framework so that you can choose the right fit for your organization. As you advance, you'll learn how to apply SAFe to make your organization agile as well as efficient. Once you've gotten to grips with the theory, you can explore use cases and take a quiz at the end of the book to test yourself and see how EA is applied in practice. By the end of this enterprise architecture book, you'll have the skills and knowledge required to apply EA in the cloud with AWS and drive your organization to become super-efficient and agile. What you will learn Set up the core foundation of your enterprise architecture Discover how TOGAF relates to enterprise architecture Explore AWS's EA frameworks and find out which one is the best for you Use SAFe to maximize agility in your organization Find out how to use ArchiMate to model your architecture Establish proper EA practices in your organization Migrate to the cloud with AWS and SAFe Who this book is for This agility book is for

experienced and inexperienced solutions architects, enterprise architects, and cloud architects who know the basics of software and solutions architecture, along with cloud fundamentals, and are looking to get started with AWS and SAFe to implement enterprise architecture in the cloud.

Complex Enterprise Architecture - John D. McDowall 2019-02-07

Implement successful and cost-effective enterprise architecture projects. This book provides a new approach to developing enterprise architecture based on the idea of emergent behaviors—where instead of micromanaging system implementation, the enterprise architecture effort establishes clear goals and leaves the details to the implementation teams. System development efforts are measured based on their contribution to achieving business goals instead of implementing specific (possibly outdated) requirements. Most enterprise architecture initiatives employ one of the existing system architecture frameworks such as Zachman or The Open Group Architecture Framework, but these are not well-suited for enterprise architecture in a modern, agile organization. The new approach presented in this book is based on the author's experience with large enterprise architecture efforts. The approach leverages research into complex adaptive systems and emergent behaviors, where a few simple rules result in complex and efficient enterprise behaviors. Simplifying the task of establishing and maintaining the enterprise architecture cuts the costs of building and maintaining the architecture and frees up those resources for more productive pursuits. System implementers are given the freedom to rapidly adapt to changing user needs without the blessing of the enterprise modeling priesthood, and the architecture is transformed from a static pile of obscure models and documents into an operational framework that can be actively used to manage an enterprise's resources to better achieve business goals. The enterprise architect is free to stop focusing on building and maintaining models and start focusing on achieving business goals. What You'll Learn Refocus enterprise architecture on business needs by eliminating most of the enterprise-level models Delegate tasks to the development teams who do system

implementation Document business goals, establish strategies for achieving those goals, and measure progress toward those goals Measure the results and gauge whether the enterprise architecture is achieving its goals Utilize appropriate modeling techniques that can be effectively used in an enterprise architecture Who This Book Is For Architecture practitioners and architecture managers: Practitioners are experienced architects who have used existing frameworks such as Zachman, and have experience with formal architecture modeling and/or

model-based system engineering; managers are responsible for managing an enterprise architecture project and either have experience with enterprise architecture projects that were ineffective or are looking for a different approach that will be more cost-effective and allow for more organizational agility. Government program managers looking for a different approach to make enterprise architecture more relevant and easier to implement will also find this book of value.