

Enterprise Architect For Uml 23

Marc Lankhorst

Practical Model-Driven Enterprise Architecture Mudar Bahri, Joe Williams, 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.

Visual Modeling with Rational Software Architect and UML Terry Quatrani, Jim Palistrant, 2006-05-26 “Terry’s style is always direct, approachable, and pragmatic. Abstraction is hard, and visualizing abstractions is as well, but here she’ll guide you in doing both using Rational Software Architect.” —From the Foreword by Grady Booch, IBM Fellow Master UML 2.0

Visual Modeling with IBM Rational Software Architect Using IBM Rational Software Architect, you can unify all aspects of software design and development. It allows you to exploit new modeling language technology to architect systems more effectively and develop them more productively. Now, two of IBM’s leading experts have written the definitive, start-to-finish guide to UML 2-based visual modeling with Rational Software Architect. You’ll learn hands-on, using a simplified case study that’s already helped thousands of professionals master analysis, design, and implementation with IBM Rational technologies. Renowned UML expert Terry Quatrani and J2EE/SOA evangelist Jim Palistrant walk you through visualizing all facets of system architecture at every stage of the project lifecycle. Whether you’re an architect, developer, or project manager, you’ll discover how to leverage IBM Rational’s latest innovations to optimize any project. Coverage includes Making the most of model-driven development with Rational Software Architect’s integrated design and development tools Understanding visual modeling: goals, techniques, language, and processes Beginning any visual modeling project: sound principles and best practices Capturing and documenting functional requirements with use case models Creating analysis models that begin to reveal your optimal system implementation Building design models that abstract your implementation model and source code Using implementation models to represent your system’s physical composition, from subsystems to executables and data Transforming these models to actual running code

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System Analysis and Modeling: Models and Reusability Daniel Amyot, Pau Fonseca i Casas, Gunter Mussbacher, 2014-09-24 This book constitutes the refereed papers of the proceedings of the 8th International Conference on System Analysis and Modeling, SAM 2014, held in Valencia, Spain, in September 2014. The 18 full papers and the 3 short papers presented together with 2 keynotes were carefully reviewed and selected from 71 submissions. The contributions are organized in topical sections named: reuse; availability, safety and optimization; sequences and interactions; testing; metrics, constraints and repositories; and SDL and V&V.

Large-Scale Software Architecture Jeff Garland, Richard Anthony, 2003-07-25 The purpose of large-scale software architecture is to capture and describe practical representations to make development teams more effective. In this book the authors show how to utilise software architecture as a tool to guide the development instead of capturing the architectural details after all the design decisions have been made. * Offers a concise description of UML usage for large-scale architecture * Discusses software architecture and design principles * Technology and vendor independent

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.

Modeling Enterprise Architecture with TOGAF Philippe Desfray, Gilbert Raymond, 2014-08-04 Modeling Enterprise Architecture with TOGAF explains everything you need to know to effectively model enterprise architecture with The Open Group Architecture Framework (TOGAF), the leading EA standard. This solution-focused reference presents key techniques and illustrative examples to help you model enterprise architecture. This book describes the TOGAF standard and its structure, from the architecture transformation method to governance, and presents enterprise architecture modeling practices with plenty of examples of TOGAF

deliverables in the context of a case study. Although widespread and growing quickly, enterprise architecture is delicate to manage across all its dimensions. Focusing on the architecture transformation method, TOGAF provides a wide framework, which covers the repository, governance, and a set of recognized best practices. The examples featured in this book were realized using the open source Modelio tool, which includes extensions for TOGAF. Includes intuitive summaries of the complex TOGAF standard to let you effectively model enterprise architecture Uses practical examples to illustrate ways to adapt TOGAF to the needs of your enterprise Provides model examples with Modelio, a free modeling tool, letting you exercise TOGAF modeling immediately using a dedicated tool Combines existing modeling standards with TOGAF

Enterprise Architecture at Work Marc Lankhorst,2012-08-20 An enterprise architecture tries to describe and control an organisation's structure, processes, applications, systems and techniques in an integrated way. The unambiguous specification and description of components and their relationships in such an architecture requires a coherent architecture modelling language. Lankhorst and his co-authors present such an enterprise modelling language that captures the complexity of architectural domains and their relations and allows the construction of integrated enterprise architecture models. They provide architects with concrete instruments that improve their architectural practice. As this is not enough, they additionally present techniques and heuristics for communicating with all relevant stakeholders about these architectures. Since an architecture model is useful not only for providing insight into the current or future situation but can also be used to evaluate the transition from 'as-is' to 'to-be', the authors also describe analysis methods for assessing both the qualitative impact of changes to an architecture and the quantitative aspects of architectures, such as performance and cost issues. The modelling language presented has been proven in practice in many real-life case studies and has been adopted by The Open Group as an international standard. So this book is an ideal companion for enterprise IT or business architects in industry as well as for computer or management science students studying the field of enterprise architecture.

Unifying the Software Process Spectrum Barry Boehm,2005 This book constitutes the thoroughly refereed post-proceedings of the International Software Process Workshop, SPW 2005, held in Beijing, China in May 2005. The 30 papers presented here, together with 11 keynote addresses are organized in topical sections on process content, process tools and metrics, process management, process representation and analysis, as well as experience reports.

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

Handbook on Enterprise Architecture Peter Bernus,Laszlo Nemes,Günter Schmidt,2012-12-06 This handbook is about methods, tools and examples of how to architect an enterprise through considering all life cycle aspects of Enterprise Entities. It is based on ISO15704:2000, or the GERAM Framework. A wide audience is addressed, as the handbook covers methods and tools necessary to design or redesign enterprises, as well as those necessary to structure the implementation into manageable projects.

Software Engineering Design Carlos Otero,2016-04-19 Taking a learn-by-doing approach, Software Engineering Design: Theory and Practice uses examples, review questions, chapter exercises, and case study assignments to provide students and practitioners with the understanding required to design complex software systems. Explaining the concepts that are immediately relevant to software designers, it be

Modeling Enterprise Architecture with TOGAF Philippe Desfray,Gilbert Raymond,2014-05-07 Modeling Enterprise Architecture with TOGAF explains everything you need to know to effectively model enterprise architecture with The Open Group Architecture Framework (TOGAF), the leading EA standard. This solution-focused reference presents key techniques and illustrative examples to help you model enterprise architecture. This book describes the TOGAF standard and its structure, from the architecture transformation method to governance, and presents enterprise architecture modeling practices with plenty of examples of TOGAF deliverables in the context of a case study. Although widespread and growing quickly, enterprise architecture is delicate to manage across all its dimensions. Focusing on the architecture transformation method, TOGAF provides a wide framework, which covers the repository, governance, and a set of recognized best practices. The examples featured in this book were realized using the open source Modelio tool, which includes extensions for TOGAF.

Product-Focused Software Process Improvement Andreas Jedlitschka,Outi Salo,2008-06-16 This book constitutes the refereed proceedings of the 9th International Conference on Product Focused Software Process Improvement, PROFES 2008, held in Monte Porzio Catone, Italy, in June 2008. The 31 revised full papers presented together with 4 reports on workshops and tutorials and 3 keynote addresses were carefully reviewed and selected from 61 submissions. The papers address different development modes, roles in the value chain, stakeholders' viewpoints, collaborative development, as well as economic and quality aspects. The papers are organized in topical sections on quality and measurement, cost estimation, capability and maturity models, systems and software quality, software process improvement, lessons learned and best practices, and agile software development.

Advanced Computing and Systems for Security Rituparna Chaki,Khalid Saeed,Agostino Cortesi,Nabendu Chaki,2017-03-09 This book presents extended versions of papers originally presented and discussed at the 3rd International Doctoral Symposium on Applied Computation and Security Systems (ACSS 2016) held from August 12 to 14, 2016 in Kolkata, India. The symposium was jointly organized by the AGH University of Science & Technology, Cracow, Poland; Ca' Foscari University, Venice, Italy; and the University of Calcutta, India. The book is divided into two volumes, Volumes 3 and 4, and presents dissertation works in the areas of Image Processing, Biometrics-based Authentication, Soft Computing, Data Mining, Next-Generation Networking and Network Security, Remote Healthcare, Communications, Embedded Systems, Software Engineering and Service Engineering. The first two volumes of the book published the works presented at the ACSS 2015, which was held from May 23 to 25, 2015 in Kolkata, India.

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Model Driven Engineering Languages and Systems Gregor Engels,Bill Opdyke,Douglas C. Schmidt,Frank Weil,2007-09-12 This book constitutes the refereed proceedings of the 10th International Conference on Model Driven Engineering Languages and Systems (formerly the UML series of conferences), MODELS 2007, held in Nashville, USA, September 30 - October 5, 2007. The 45 revised full papers were carefully reviewed and selected from 158 initial submissions. The papers are organized in topical sections.

The Practice of Enterprise Modeling Geert Poels,Frederik Gailly,Estefania Serral Asensio,Monique Snoeck,2017-11-14 This volume constitutes the proceedings of the 10th IFIP WG 8.1 Conference on the Practice of Enterprise Modeling held in November 2017 in Leuven, Belgium. The conference was created by the International Federation for Information Processing (IFIP) Working Group 8.1 to offer a forum for knowledge transfer and experience sharing between the academic and practitioner communities. The 20 full papers and 4 short papers accepted were carefully reviewed and selected from 70 submissions. They include research results, practitioner/experience reports and work-in-progress papers and were presented in 8 sessions covering diverse topics related to enterprise modelling and its application in practice.

Software Engineering with UML Bhuvan Unhelkar,2017-12-14 This book presents the analysis, design, documentation, and quality of software solutions based on the OMG UML v2.5. Notably it covers 14 different modelling constructs including use case diagrams, activity diagrams, business-level class diagrams, corresponding interaction diagrams and state machine diagrams. It presents the use of UML in creating a Model of the Problem Space (MOPS), Model of the Solution Space (MOSS) and Model of the Architectural Space (MOAS). The book touches important areas of contemporary software engineering ranging from how a software engineer needs to invariably work in an Agile development environment through to the techniques to model a Cloud-based solution.

Designing Enterprise Architecture Frameworks Liviu Gabriel Cretu,2016-04-19 This book gathers together a critical body of knowledge on what enterprise architecture (EA) is and how it can be used to better organize the functions of systems across an enterprise for an effective business-IT alignment. The chapters provide a solid foundation for a cross-disciplinary professional practice.

Adaptive Cloud Enterprise Architecture Asif Qumer Gill,2015-06-08 This book presents a comprehensive and novel adaptive enterprise service systems approach to adapting, defining, operating, managing and supporting (ADOMS) the adaptive cloud enterprise architecture. The adaptive cloud enterprise architecture provides a platform for creating the service-centric agile enterprise. This book is intended for enterprise strategists, enterprise architects, domain architects, solution architects, researchers, and anyone who has an interest in the enterprise architecture and cloud computing disciplines. Contents:IntroductionCloud-Enabled Enterprise AdaptationThe Adaptive Enterprise Service System MetamodelThe Adaptive Enterprise Service System Lifecycle ManagementAdapting Cloud Enterprise Architecture CapabilityDefining Cloud Enterprise Architecture CapabilityOperating Cloud Enterprise Architecture CapabilityManaging Cloud Enterprise Architecture CapabilitySupporting Cloud Enterprise Architecture CapabilityCase Study Examples Readership: Researchers, academics, professionals and graduate students in software engineering, information sciences and networking. Keywords:Agility;Agile Enterprise Architecture;Cloud Computing;Design Thinking;Innovation

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