

The Enterprise Engineering Series

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Architecture Principles

The Cornerstones
of Enterprise Architecture

 Springer

Architecture Principles Cornerstones Enterprise Engineering

Yijin Wang



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Architecture Principles Danny Greefhorst, Erik Proper, 2011-04-29 Enterprises from small to large evolve continuously. As a result, their structures are transformed and extended continuously. Without some means of control, such changes are bound to lead to an overly complex, uncoordinated, and heterogeneous environment that is hard to manage and hard to adapt to future changes. Enterprise architecture principles provide a means to direct transformations of enterprises. As a consequence, architecture principles should be seen as the cornerstones of any architecture. In this book, Greefhorst and Proper focus on the role of architecture principles. They provide both a theoretical and a practical perspective on architecture principles. The theoretical perspective involves a brief survey of the general concept of principle as well as an analysis of different flavors of principles. Architecture principles are regarded as a specific class of normative principles that direct the design of an enterprise from the definition of its business to its supporting IT. The practical perspective on architecture principles is concerned with an approach to the formulation of architecture principles as well as their actual use in organizations. To illustrate their use in practice, several real-life cases are discussed. An application of architecture principles in TOGAF is included, and a catalogue of example architecture principles is provided. With this broad coverage, the authors target students and researchers specializing in enterprise architecture or business information systems as well as practitioners who want to understand the foundations underlying their practical daily work.

Advances in Enterprise Engineering XII David Aveiro, Giancarlo Guizzardi, Sérgio Guerreiro, Wided Guédria, 2018-12-31 This book constitutes the proceedings of the 8th Enterprise Engineering Working Conference EEWC 2018 held in Luxembourg, Luxembourg, in May/June 2018. EEWC aims at addressing the challenges that modern and complex enterprises are facing in a rapidly changing world. The participants of the working conference share a belief that dealing with these challenges requires rigorous and scientific solutions focusing on the design and engineering of enterprises. The goal of EEWC is to stimulate interaction between the different stakeholders: scientists as well as practitioners interested in making Enterprise Engineering a reality. The 9 full papers and 3 short papers presented in this volume were carefully reviewed and selected from 24 submissions. They were organized in topical sections named on architecture, on security and blockchain, on DEMO, and on teaching.

Masterclass Enterprise Architecture Management Jürgen Jung, Bardo Fraunholz, 2021-09-06 This textbook provides a hands-on introduction to enterprise architecture management. It guides the reader through the applications of methods and tools to typical business problems by presenting enterprise architecture frameworks and by sharing experiences from industry. The structure of the book represents the typical stages of the journey of an enterprise architect. Chapter 1 addresses the central question of what to achieve with the introduction of an enterprise architecture. Chapter 2 then introduces concepts and visualizations for business architecture that help with understanding the business. In chapter 3, the development of an application architecture is outlined, which provides transparency on information systems and their business context.

Next chapter 4 presents visual tools to analyze improve and eventually optimize the application landscape Chapter 5 discusses both traditional organizational as well as collaborative approaches to enterprise architecture management Eventually several established enterprise architecture frameworks like TOGAF Zachmann ArchiMate and IAF are described in chapter 6 The book concludes with a summary and an outlook on future research potential in chapter 7 Based on their experiences through several years of teaching the authors introduce students step by step to enterprise architecture development and management Their book is intended as a guide for master classes at universities and includes lots of exercises and references for further reading

Model-Based System Architecture Marco Forlingieri, Jesko G.

Lamm, Stephan Roth, Markus Walker, 2015-10-26 Presents modeling approaches that can be performed in SysML and other modeling languages This book combines the emerging discipline of systems architecting with model based approaches using SysML The early chapters of the book provide the fundamentals of systems architecting discussing what systems architecting entails and how it benefits systems engineering Model based systems engineering is then defined and its capabilities to develop complex systems on time and in a feasible quality are discussed The remainder of the book covers important topics such as architecture descriptions architecture patterns perspectives viewpoints views and their relation to system architecture the roles of a system architect their team and stakeholders systems architecting processes agile approaches to systems architecting variant modeling techniques architecture frameworks and architecture assessment The book's organization allows experts to read the chapters out of sequence Novices can read the chapters sequentially to gain a systematic introduction to system architecting Model Based System Architecture Provides comprehensive coverage of the Functional Architecture for Systems FAS method created by the authors and based on common MBSE practices Covers architecture frameworks including the System of Systems Zachman Frameworks TOGAF and more Includes a consistent example system the Virtual Museum Tour system that allows the authors to demonstrate the systems architecting concepts covered in the book Model Based System Architecture is a comprehensive reference for system architects and systems engineers in technology companies This book will also serve as a reference to students and researchers interested in functional architectures Tim Weilkiens is the CEO at the German consultancy oose Innovative Informatik and co author of the SysML specification He has introduced model based systems engineering to a variety of industry sectors He is author of several books about modeling and the MBSE methodology SYSMOD Jesko G Lamm is a Senior Systems Engineer at Bernafon a Swiss manufacturer for hearing instruments With Tim Weilkiens Jesko G Lamm founded the Functional Architectures working group of the German chapter of INCOSE Stephan Roth is a coach consultant and trainer for systems and software engineering at the German consultancy oose Innovative Informatik He is a state certified technical assistant for computer science from Physikalisch Technische Lehranstalt PTL Wedel and a certified systems engineer GfSE Level C Markus Walker works at Schindler Elevator in the research and development division as elevator system architect He is an INCOSE Certified

Systems Engineering Professional CSEP and is engaged in the committee of the Swiss chapter of INCOSE Advances in Enterprise Engineering VI Antonia Albani, David Aveiro, Joseph Barjis, 2012-05-02 This book constitutes the proceedings of the Second Enterprise Engineering Working Conference EEWC held in Delft The Netherlands during May 7 8 2012 EEWC aims at addressing the challenges that modern and complex enterprises are facing in a rapidly changing world The participants of the working conference share a belief that dealing with these challenges requires rigorous and scientific solutions focusing on the design and engineering of enterprises The goal of EEWC is to stimulate interaction between the different stakeholders scientists as well as practitioners interested in making enterprise engineering a reality The eight papers presented were carefully reviewed and selected for inclusion in the book EEWC 2012 had 20 submissions and accepted eight for publication The topics of the presented papers allowed for active participation in interesting discussions and exchange of ideas and stimulated future cooperation among the participants This made EEWC a real working conference contributing to the further development of enterprise engineering as a mature discipline Topics covered include foundations of enterprise engineering enterprise control flexibility and governance and specifying value Enterprise Architecture and Cartography Pedro Sousa, André Vasconcelos, 2022-11-08 This textbook provides guidance to both students and practitioners of enterprise architecture EA on how to develop and maintain enterprise models Rather than providing yet another list of EA notations and frameworks from A to Z it focuses on methods to perform such tasks The problem of EA maintenance named Enterprise Cartography is an important aspect addressed in this book because EA is a never ending challenge that increases as the organization transformations pace also increases The long time perspective also entails the evolution of architectural frameworks and notations something that does not occur when developing new models Thus a catalogue of patterns principles and methods is presented to develop and maintain EA models and views After a general introduction to the book in chapter 1 chapter 2 presents basic concepts for EA modeling Chapter 3 further details the set of EA concepts needed to present the patterns and principles which are subsequently introduced in chapter 4 Next chapter 5 describes enterprise cartography concepts and principles The remaining book then turns to techniques and methodologies In chapter 6 an EA development method is summarized In chapter 7 an enterprise strategy design approach is proposed while in chapter 8 a business process design methodology is described Chapters 9 and 10 focus on information architecture and information systems architecture design approaches including information systems architecture planning and application portfolio management Eventually chapter 11 describes a method for enterprise cartography EC design Last not least several case studies on EA and EC are proposed in the last chapter **Enterprise Design, Operations, and Computing. EDOC 2023 Workshops** Tiago Prince Sales, Sybren de Kinderen, Henderik A. Proper, Luise Pufahl, Dimka Karastoyanova, Marten van Sinderen, 2024-03-01 This volume constitutes revised selected papers of several workshops the EDOC Forum and the Demonstrations and Doctoral Consortium track which were held in conjunction with the 27th International Conference on

Enterprise Design Operations and Computing EDOC 2023 in Groningen The Netherlands during October 30 November 3 2023 The 18 revised full papers and 7 short papers presented in this book were carefully reviewed and selected from 37 submissions They stem from the following satellite events Workshop on Intelligent Digital Architecture Methods and Services for Industry 4 0 and Society 5 0 IDAMS Workshop on Empirical Methodologies for Research in Enterprise Architecture and Service Oriented Computing iRESEARCH Workshop on the Modelling and Implementation of Digital Twins for Complex Systems MIDas4CS Workshop on Service oriented Enterprise Architecture for Enterprise Engineering SoEA4EE EDOC Forum Demonstrations Track Doctoral Consortium

Engineering the Transformation of the Enterprise Stephan Aier, Peter Rohner, Joachim Schelp, 2021-09-01 The topics in this book cover a broad range of research interests from business engineering and its application in corporate and business networking contexts to design science research as well as applied topics where those research methods have been employed for modeling data warehousing information systems management enterprise architecture management management of large and complex projects and enterprise transformation The book is a Festschrift for Robert Winter in order to appreciate his work and to honor him as a personality with a high reputation in the information systems community To this end many professional colleagues or long time companions both from the Institute of Information Management at the University of St Gallen as well as from the international research community dedicated articles on topics related to Robert s research They reflect his ambition to uncompromisingly conduct high class research that fuels the research community and at the same time contributes to improved industrial practice The book is organized in three major parts Part I Business Engineering and Beyond focuses on the methodology strongly shaped by Robert in St Gallen with a focus on research being applied in corporate contexts Part II Design Science Research spans from reflections on the practice of design science research to perspectives on design science research methodologies and eventually up to considerations to teach design science research methodology Part III Applied Fields combines various applications of design science and related research methodologies with practical problems and future research topics

Enterprise and Organizational Modeling and Simulation Robert Pergl, Martin Molhanec, Eduard Babkin, Samuel Fosso Wamba, 2016-11-11 This book constitutes the refereed proceedings of the 12th International Workshop on Enterprise and Organizational Modeling and Simulation EOMAS 2016 held in Ljubljana Slovenia in June 2016 The 12 full papers presented in this volume were carefully reviewed and selected from 26 submissions They were organized in topical sections on formal approaches and human centric approaches

Enterprise Information Systems Slimane Hammoudi, José Cordeiro, Leszek A. Maciaszek, Joaquim Filipe, 2014-07-24 This book contains substantially extended and revised versions of the best papers from the 15th International Conference on Enterprise Information Systems ICEIS 2013 held in Angers France in July 2013 The 29 full and two invited papers included in this volume were carefully reviewed and selected from 321 submissions They reflect state of the art research focusing mainly on real world applications and highlight the benefits of information systems and

technology for industry and services thus connecting academia with the world of real enterprises The topics covered are databases and information systems integration artificial intelligence and decision support systems information systems analysis and specification software agents and Internet computing human computer interaction and enterprise architecture

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