

The Enterprise Engineering Series

Danny Greefhorst
Erik Proper

Architecture Principles

The Cornerstones
of Enterprise Architecture

 Springer

Architecture Principles The Cornerstones Of Enterprise Architecture The Enterprise Engineering Series

Pedro Sousa, André Vasconcelos



Architecture Principles The Cornerstones Of Enterprise Architecture The Enterprise Engineering Series:

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 as 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. *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.

Fundamentals of Enterprise Architecture Management Jörg Ziemann, 2022-06-22 This textbook provides a comprehensive, holistic, scientifically precise, and practically relevant description of Enterprise Architecture Management.

EAM Based on state of the art concepts it also addresses current trends like disruptive digitization or agile methods The book is structured in five chapters The first chapter offers a comprehensive overview of EAM It addresses questions like what does EAM mean what is the history of EAM why do enterprises need EAM what are its goals and how is it related to digitalization It also includes a short overview of essential EAM standards and literature The second chapter provides an overview of Enterprise Architecture EA It starts with clarifying basic terminology and the difference between EA and EAM It also gives a short summary of existing EA frameworks and methods for structuring the digital ecosystem into layers and views The third chapter addresses the strategic and tactical context of the EAM capability in an enterprise It defines essential terms and parameters in the context of enterprise strategy and tactics as well as the operative organizational context of EAM The fourth chapter specifies the detailed goals processes functions artifacts roles and tools of EAM building the basis for an EAM process framework that provides a comprehensive overview of EAM processes and functions Closing the circle the last chapter describes how to evaluate EAM in an enterprise It starts by laying out core terminology like metric and strategic performance measurement system and ends with a framework that integrates the various measuring areas in the context of EA and EAM This textbook focuses on two groups First EAM scholars ie bachelor or master students of Business Information Systems Business Administration or Computer Science And second EAM practitioners working in the field of IT strategy or EA who need a reliable scientifically solid and practically proven state of the art description of essential EAM methods

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

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

Architectural Coordination of Enterprise Transformation Henderik A. Proper, Robert Winter, Stephan Aier, Sybren de Kinderen, 2018-04-05 Architectural coordination of enterprise transformation ACET integrates and aggregates local information and provides different viewpoints such as financial structural or skill perspectives to the respective stakeholder groups with the aim of creating a consensus and shared understanding of an enterprise transformation among the stakeholders Its core purpose is to inform decision makers with both local and enterprise wide concerns so that the overall transformation goals can be successfully pursued i.e. reducing inconsistencies and including local decisions in the overarching goals This book consists of three major parts framed by an introduction and a summary To enable readers to gain a better understanding of the issues involved in real world enterprise transformations as well as the possible role of architectural coordination and the associated challenges Part I provides an analysis of status quo of corporate ACET practice Part II then continues with an exploration of the challenges facing ACET from a theoretical perspective Based on these challenges Part III then presents a collection of components for a possible design theory for ACET Instead of an integrated method this collection of components constitutes method fragments that can

be arranged in different ways depending on the perspective taken the actual enterprise architecture management approach the enterprise transformation type and the transformation s context Enterprise Modeling Janis Stirna,Anne Persson,2018-09-28 This book offers practical advice on managing enterprise modeling EM projects and facilitating participatory EM sessions Modeling activities often involve groups of people and models are created in a participatory way Ensuring that this is done efficiently requires dedicated individuals who know how to organize modeling projects and sessions how to manage discussions during these sessions and what aspects influence the success and efficiency of modeling in practice The book also includes a summary of the theoretical background to EM although participatory modeling can also be used in conjunction with other methods that are not made for EM such as those made for goal oriented requirements engineering and information systems analysis The first four chapters present an overview of enterprise modeling from various viewpoints including methods processes and organizational challenges providing a background for those that need to refresh their basic knowledge The next six chapters form the core of the book and detail the roles and competences needed in an EM project typical stakeholder behaviors and how to handle them tools and methods for managing participatory modeling and facilitation and how to train modeling experts for these social aspects of modeling Lastly a concluding chapter presents a summary and an outlook on current research in participatory EM This book is intended for anybody who wants to learn more about how to facilitate participatory modeling in practice and how to set up and carry out EM projects It does not require any in depth knowledge about specific EM methods and tools and can be used by students and lecturers for courses on participatory modeling and by practitioners wanting to extend their knowledge of social and organizational topics to become an experienced facilitator and EM project manager *Practice-Driven Research on Enterprise Transformation* Erik Proper,Khaled Gaaloul,Frank Harmsen,Stanisław Wrycza,2012-06-23 This volume constitutes the proceedings of the 4th Working Conference on Practice Driven Research on Enterprise Transformation PRET held in Gda sk Poland on June 27 2012 as the industrial track of the 24th International Conference on Advanced Information Systems Engineering CAiSE 2012 Restructuring divesting improving performance and merging are among the usual transformation activities that enterprises conduct to provide answers to the challenging demands put on them To foster the much needed debate between researchers and practitioners on these topics the number of papers accepted for PRET is kept low providing the authors and the audience with ample time to engage in discussions about both the practical implications of results and the theoretical underpinnings of phenomena observed in industrial practice This year five papers were selected after careful review and each paper is between 20 and 25 pages long to allow for the presentation of details The topics covered include enterprise architecture business and IT alignment and business process management and evaluation **Digital Enterprises** Henderik A. Proper,Bas van Gils,Kazem Haki,2023-11-14 This book explores different aspects of and provides concrete suggestions to meet the three main challenges for becoming a Digital Enterprise the transition to the digital age the emergence of service

ecosystems and the growing role of data as a key underlying resource As a result of these intertwined and mutually amplifying trends today's enterprises are confronted with several challenges that profoundly impact their design from the definitions of products and services offered to their clients via the business processes that deliver these products and services to the underlying IT infrastructure The contributions which are written by leading enterprise architecture researchers and managers of large corporations cover four key aspects which form each one part of the book Part I presents experiences how different enterprises currently already need to embrace and exploit new challenges like blockchain customer centric services or value co creation networks Part II looks at the need for a new design logic i.e. the need for new ways of thinking regarding the design of enterprises Part III is concerned with the coordination needed among different stakeholders of the ensuing continuous transformations Part IV eventually reflects on the ongoing consequences for enterprise modeling as used to capture both the current affairs of an enterprise as well as design study its possible future affairs The target audience of this book are both master and PhD level students who want to gain insights into key aspects of the challenges confronting digital enterprises as well as enterprise architects and information managers working in enterprises that are on their way to become digital

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

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

Data in Context Bas van Gils, 2023-07-31 Data is an increasingly important asset for many organizations This book shows how to model data in a way that allows to exploit this asset effectively and in every respect To this end it combines and exploits scientific semiotics relational model etc and pragmatic theories most prominently the DAMA wheel and provides a coherent overview from a business and an IT ICT perspective After a brief introduction the remaining book consists of three parts In Part I Data the focus is on understanding data It includes theories in semiotics the relational model and normalization as well as related theories around understanding data designing sound data structures This part is complemented by an extensive chapter on how to design effective data structures and a smaller one on the topic of create versus use context Part II Data Management then focuses on managing data as an asset This part is based on the DMBOK and each of the functional areas is discussed in a separate chapter Part III Parting Thoughts presents conclusions which are based on a synthesis of Part I and Part II leading up to a summary of the main contributions of this book as well as a critical reflection on these results This book is written for a rather broad audience ranging from professionals to students both from business computer science and information management The writing style is adjusted specifically for these groups At the end of each chapter reflection questions are included that distinguish between questions for practitioners and for students and help both audiences to benefit from the book and check their comprehension

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

Advanced Digital Architectures for Model-Driven Adaptive Enterprises Kulkarni, Vinay,Reddy, Sreedhar,Clark, Tony,Barn, Balbir S.,2020-04-03 The five digital forces mobility and pervasive computing cloud big data artificial intelligence and robotics and social media are poised to bring great academic and industrial breakthroughs All stakeholders want to understand how to best harness these forces to their advantage While literature exists for understanding each force independently there is a lack of knowledge on how to utilize all the forces together to realize future enterprises Advanced Digital Architectures for Model Driven Adaptive Enterprises is an essential reference source that explores the potential in unifying the five digital forces to achieve increased levels of agility efficiency and scale Featuring coverage on a wide range of topics including socio technical systems adaptive architectures and enterprise modeling this book is ideally designed for managers executives programmers designers computer engineers entrepreneurs tool builders digital practitioners researchers academicians and students at the graduate level *Digital Transformation and Global Society* Daniel A. Alexandrov,Alexander V. Boukhanovsky,Andrei V. Chugunov,Yury Kabanov,Olessia Koltsova,2018-11-09 This two volume set CCIS 858 and CCIS 859 constitutes the refereed proceedings of the Third International Conference on Digital Transformation and Global Society DTGS 2018 held in St Petersburg Russia in May June 2018 The 75 revised full papers and the one short paper presented in the two volumes were carefully reviewed and selected from 222 submissions The papers are organized in topical sections on e polity smart governance and e participation politics and activism in the cyberspace law and regulation e city smart cities and urban planning e economy IT and new markets e society social informatics digital divides e communication discussions and perceptions on the social media e humanities arts and culture International Workshop on Internet Psychology International Workshop on Computational Linguistics

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

Enterprise Information Systems Joaquim Filipe, Michał Śmiałek, Alexander Brodsky, Slimane Hammoudi, 2020-02-19 This book constitutes extended revised and selected papers from the 21st International Conference on Enterprise Information Systems ICEIS 2019 held in Heraklion Crete Greece in May 2019 The 26 papers presented in this volume were carefully reviewed and selected for inclusion in this book from a total of 205 submissions They deal with topics such as data science and databases ontologies social networks knowledge management software development human computer interaction and multimedia Architecting the Digital Transformation Alfred Zimmermann, Rainer Schmidt, Lakhmi C. Jain, 2020-07-27 This research oriented book presents key contributions on architecting the digital transformation It includes the following main sections covering 20 chapters Digital Transformation Digital Business Digital Architecture Decision Support Digital Applications Focusing on digital architectures for smart digital products and services it is a valuable resource for researchers doctoral students postgraduates graduates undergraduates academics and practitioners interested in digital transformation **Advanced Information Systems Engineering** Selmin Nurcan, Pnina Soffer, Marko Bajec, Johann Eder, 2016-05-26 This book constitutes the proceedings of the 28th International Conference on Advanced Information Systems Engineering CAiSE 2016 held in Ljubljana Slovenia in June 2016 The 35 papers presented in this volume were carefully reviewed and selected from 211 submissions The program included the following paper sessions Collaboration Business Process Modeling Innovation Gamification Mining and Business Process Performance Requirements Engineering Process Mining Conceptual Modeling Mining and Decision Support Cloud and Services Variability and Configuration Open Source Software and Business Process Management

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