

The Enterprise Engineering Series

Danny Greefhorst
Erik Proper

Architecture Principles

The Cornerstones
of Enterprise Architecture

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Architecture Principles The Cornerstones Of Enterprise Architecture The Enterprise Engineering Series

Janis Stirna, Anne Persson



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 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

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

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

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

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

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

Knowledge Architectures Denise Bedford, 2020-12-31

Knowledge Architectures reviews traditional approaches to managing information and explains why they need to adapt to support 21st century information management and discovery Exploring the rapidly changing environment in which information is being managed and accessed the book considers how to use knowledge architectures the basic structures and designs that underlie all of the parts of an effective information system to best advantage Drawing on 40 years of work with a variety of organizations Bedford explains that failure to understand the structure behind any given system can be the difference between an effective solution and a significant and costly failure Demonstrating that the information user environment has shifted significantly in the past 20 years the book explains that end users now expect designs and behaviors that are much closer to the way they think work and act Acknowledging how important it is that those responsible for developing an information or knowledge management system understand knowledge structures the book goes beyond a traditional library science perspective and uses case studies to help translate the abstract and theoretical to the practical and concrete Explaining the structures in a simple and intuitive way and providing examples that clearly illustrate the challenges faced by a range of different organizations Knowledge Architectures is essential reading for those studying and working in library and information science data science systems development database design and search system architecture and engineering

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