

Enterprise Architecture At Work Modelling Communication And Analysis

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.

Model Driven Architecture (MDA) is a new methodology from OMG that uses modeling languages like UML along with programming languages like Java to build software architectures PriceWatersCoopers' prestigious Technology Center just predicted that MDA will be one of the most important methodologies in the next two years Written by the lead architect

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of the specification who provides inside information on how MDA has worked in the real world Describes MDA in detail and demonstrates how it can work with existing methodologies and technologies such as UML,MOF, CWM, and Web services

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 and the other techniques presented have been proven in practice in many real-life case studies. 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. Enterprise Architecture Planning (EAP) is a high-level blueprint for data, applications, and technology that is a cost-effective long-term solution. The authors give you a common-sense approach to EAP, supported by examples of architectures, procedures, checklists, and useful

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guidelines.

Third edition of the much praised introduction and in-depth book that teaches the leading enterprise architecture modeling language ArchiMate 3. Includes explanations for many subjects that are modeled, such as SOA/API, ESB, Bitcoin/blockchain, Infrastructure as Code, etc. Also contains a BPMN primer. With 380 diagrams.

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

Implement successful and cost-effective enterprise architecture projects. This book provides a

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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

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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.

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

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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.

Enterprise architecture defines a firm's needs for standardized tasks, job roles, systems, infrastructure, and data in core business processes. This book explains enterprise architecture's vital role in enabling - or constraining - the execution of business strategy. It provides frameworks, case examples, and more.

As technology continues to evolve in organizations, it is vital to understand the impact that these advances will have on different aspects of the business environment as well as the opportunity for further improvement. *Effects of IT on Enterprise Architecture, Governance, and Growth* explores the influence of emerging technology on different viewpoints associated with contemporary enterprise. Emphasizing an interdisciplinary approach to the comprehension of organizational structure and dynamics, this book is an inclusive reference source

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for enterprise analysts, business managers, and IT managers, as well as upper-level students interested in a new framework for understanding business enterprise in the new digital era.

The ARIS architecture developed here is described in concrete terms as an information model within the entity-relationship approach. This information model, in turn, serves as the basis for the systematic and rational application of methods in the development of information systems. Furthermore, it provides the basis for storing the enterprise's application-specific data, organization and function models. The ARIS architecture constitutes a framework within which integrated applications can be developed, optimized and converted into EDP-technical implementations. At the same time, it demonstrates how economics can examine and analyze information systems so as to translate their contents into EDP-form. The practice of enterprise application development has benefited from the emergence of many new enabling technologies. Multi-tiered object-oriented platforms, such as Java and .NET, have become commonplace. These new tools and technologies are capable of building powerful applications, but they are not easily implemented. Common failures in enterprise applications often occur because their developers do not understand the architectural lessons that experienced object developers have learned. Patterns of Enterprise Application

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Architecture is written in direct response to the stiff challenges that face enterprise application developers. The author, noted object-oriented designer Martin Fowler, noticed that despite changes in technology--from Smalltalk to CORBA to Java to .NET--the same basic design ideas can be adapted and applied to solve common problems. With the help of an expert group of contributors, Martin distills over forty recurring solutions into patterns. The result is an indispensable handbook of solutions that are applicable to any enterprise application platform. This book is actually two books in one. The first section is a short tutorial on developing enterprise applications, which you can read from start to finish to understand the scope of the book's lessons. The next section, the bulk of the book, is a detailed reference to the patterns themselves. Each pattern provides usage and implementation information, as well as detailed code examples in Java or C#. The entire book is also richly illustrated with UML diagrams to further explain the concepts. Armed with this book, you will have the knowledge necessary to make important architectural decisions about building an enterprise application and the proven patterns for use when building them. The topics covered include

- Dividing an enterprise application into layers
- The major approaches to organizing business logic
- An in-depth treatment of mapping between objects and relational databases
- Using Model-View-Controller to

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organize a Web presentation · Handling concurrency for data that spans multiple transactions · Designing distributed object interfaces

This book constitutes the proceedings papers of the 13th IFIP Working Conference on the Practice of Enterprise Modeling, held in Riga, Latvia, in November 2020. Due to the COVID-19 pandemic the conference took place virtually. The 19 full papers presented together with 7 short and 2 invited papers in this volume were carefully reviewed and selected from a total of 58 submissions to the main conference. The special focus of PoEM 2020 is on the role of enterprise modelling in the digital age. The selected papers are grouped by the following topics: Enterprise Modeling and Enterprise Architecture, Formal Aspects of Enterprise Modelling, Foundations and Applications of Enterprise Modeling, Enterprise Ontologies, Business Process Modeling, Risk and Security Modeling, Requirements Modeling, and Process Mining.

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

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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.

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

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(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.

ArchiMate®, an Open Group Standard, is an open and independent modeling 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 2.0 from The Open Group. ArchiMate 2.0 is an upwards-compatible evolution from ArchiMate 1.0 adding new features, as well as addressing usage feedback. The ArchiMate 2.0 Standard supports modeling 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

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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 architecture field. Enterprise Integration Patterns provides an invaluable catalog of sixty-five patterns, with real-world solutions that demonstrate the formidable of messaging and help you to design effective messaging solutions for your enterprise. The authors also include examples covering a variety of different integration technologies, such as JMS, MSMQ, TIBCO ActiveEnterprise, Microsoft BizTalk, SOAP, and XSL. A case study describing a bond trading system illustrates the patterns in practice, and the book offers a look at emerging standards, as well as insights into what the future of enterprise integration might hold. This book provides a consistent vocabulary and visual notation framework to describe large-scale integration solutions across many technologies. It also explores in detail the advantages and limitations of asynchronous messaging architectures. The authors present practical advice on designing code that connects an application to a messaging system, and provide extensive information to help you determine when to send a message, how to route it to the proper destination, and how to monitor the health of a messaging system. If you want to know how to manage,

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monitor, and maintain a messaging system once it is in use, get this book. The handbook is a concise visual guide for Enterprise Modelling and Strategy Planning. It is also a reference manual and aide memoire for the enterprise modelling method provided. While the book describes an Enterprise wide Architecture modelling method, the activity is referred to as Enterprise Modelling to distinguish it from the Enterprise Architecture today which typically covers IT mainly. This enterprise modelling covers all tiers of the enterprise. The Information Technology is still in focus though because IT is the common denominator of all enterprises as it is deeply embedded in the enterprise operation today and it is core to its digital future. The outcome of the Enterprise Modelling is the Enterprise Model which is the integrated set of the various blueprints. A set of Posters sums up the key modelling steps and artefacts. The handbook describes a single page generic business architecture, a 3D Enterprise Modelling (EM) framework, a metamodel, sample models, blueprints design and integration, strategy planning and the EM development and the Enterprise Transformation process. It enables you build your enterprise modelling approach by starting from the framework, the generic business architecture and the various models, architecture principles and processes provided, tailored to your circumstances. Samples for the Framework utilisation in the Airline, Medical

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Insurance and Gas to Liquid industries are supplied. The work starts by aligning in the 3D framework context the definitions of the key enterprise modelling elements, such as process, value stream, flow, function, capability, service... which lack of alignment is often the problem for the industry. In addition, the handbook ultimately proposes a ground breaking method to approach the Digital Transformation and the Design of the Enterprise of the Future with Business Capabilities as a Service. Why this book? The Digital evolution accelerates as we speak. The market is ripe for Enterprise Modelling. Companies are won over the utility of an Enterprise Model because it enables the enterprise analysis, fixes and improvement, operational alignment to strategy and the enterprise transformation planning and execution while enabling agility needed by Digital. Enterprise Modelling also enables the reduction of the unnecessary enterprise complexity, duplications and their associated cost. Without such an enterprise modelling framework, many EA practices would continue to engage in rather mundane activities such as architecture solutions, reviews and policing... without ever providing the reference Enterprise Model. This step by step handbook proposes an end to end method which minimises the risks and costs of constructing own enterprise modelling approach. The framework guarantees results and increases in the productivity, predictability, repeatability and reliability

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of the outcomes. The audience is indeed the Enterprise Architect and the Business and Management consultant. But it should be consulted by all enterprise transformation stakeholders.

This book introduces a new approach for modeling large enterprise systems: the software fortress model. In the software fortress model, an enterprise architecture is viewed as a series of self-contained, mutually suspicious, marginally cooperating software fortresses interacting with each other through carefully crafted and meticulously managed treaty relationships. The software fortress model is an intuitive, simple, expressive approach that maps readily to existing technologies such as .NET and Java 2 Enterprise Edition (J2EE). This book is designed to meet an immediate need to define, clarify, and explain the basics of this new modeling methodology for large enterprise software architectures. "Software Fortresses is your essential roadmap to all aspects of software fortresses. Key topics include: The fundamental concepts and terminology of software fortresses Documentation techniques, including Fortress Ally Responsibility Cards (based on Class Responsibility Cards) and Sequence Ally Diagrams (based on UML's Class Sequence Diagrams) The proper use of drawbridges to provide fortress interoperability The innovative software fortress model for enterprise security Correct design approaches to fortress walls, which keep intruders out, and to guards, which let allies in. The role of loosely coupled and tightly coupled transactions in a software fortress architecture Design and technology issues associated with the six

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major software fortress types This book is a must-read for all enterprise software professionals, whether you are a manager seeking to rein in run-away enterprise system complexity, an architect seeking to design interoperable, scalable, and highly secure systems, a consultant expected to give advice on how .NET and J2EE fit into the enterprise space, an implementer wanting to understand how your system relates to a larger enterprise architecture, or a business analyst needing to know that your system requirements will be translated into a successful software implementation.

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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.

It is important that these different aspects of the business are not only understood, but also that they are consistent and congruent with one another. The creation of an effective Enterprise Architecture (EA) provides a means by which an organisation can obtain such an understanding. --

Wouldn't it be great to understand all the data in your organisation? Just imagine being able to define, agree and manage information concepts that impact on business strategy? Then image that these information concepts can be linked to the physical database attributes that ultimately are used to create them. That's what this book is about. It focuses on the data model as the foundation for achieving this understanding. This book provides a framework for the enterprise data model, the business reasons behind it and the differences between conceptual, logical and physical data models. The question of how, and why, to use a data model artifact as part of the data governance toolkit for the whole enterprise is also addressed. This publication is not an in-depth manual on how to model data for a new database system or your next design

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project. It instead focuses at a level above these implementation projects and addresses the issues that organisations typical struggling with such as: * How do we provide a framework within which we can manage our data assets? * How do we develop applications that adhere to a set of data standards; without creating a nightmare of administration and governance that is both unwieldy and unusable? * How can we get business value from our enterprise data? Chapter headings are: * Chapter 1 - Introduction * Chapter 2 - Information and Data * Chapter 3 - Pillars of Value * Chapter 4 - An Overview of Data Modelling * Chapter 5 - Data Architecture * Chapter 6 - The Enterprise Data Model * Chapter 7 - Build the Model one Project at a Time * Chapter 8 - Master Data * Chapter 9 - Data Governance * Chapter 10 - The Enterprise Data Framework This 2nd edition revises the original text to add extra details around key areas such as the enterprise data model framework and the pillars of value. It also improves the quality of the original text.

This book constitutes the refereed proceedings of the International Workshops on Service-Oriented Computing, ICSOC/ServiceWave 2009, held in Stockholm, Sweden, in November 2009. The book includes papers of workshops on trends in enterprise architecture research (TEAR 2009), SOA, globalization, people, and work (SG-PAW), service oriented computing in logistics (SOC-LOG), non-functional properties and service level agreements management in service oriented computing (NFPSLAM-SOC 09), service monitoring, adaptation and beyond (MONA+), engineering service-oriented

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applications (WESOA09), and user-generated services (UGS2009). The papers are organized in topical sections on business models and architecture; service quality and service level agreements track; and service engineering track.

This volume constitutes the proceedings of the 8th IFIP WG 8.1 Conference on the Practice of Enterprise Modeling held in November 2015 in Valencia, Spain. The PoEM conference series started in 2008 and aims to provide a forum sharing knowledge and experiences between the academic community and practitioners from industry and the public sector. The 23 short papers accepted were carefully reviewed and selected from 72 submissions and are organized in eight sections on Evolving Enterprises, Securing Enterprises, Making Empirical Studies, Investigating Enterprise Methods, Acquiring User Information, Managing Risks and Threats, Engineering Methods, and Making Decisions in Enterprises.

This book is positioned as a first in a series of books on enterprise architecture needed for a Master of Enterprise Architecture program, and is targeted both at university students and practitioners with a drive to increase their understanding of these fields. As an introductory book, this book aims to explore the concept of enterprise architecture. At first glance, writing such an introductory book might seem as a straight forward task of setting up a structure and filling in “the blanks.” However, writing this book turned out to be a pleasant journey of discovery. Based on our past experiences, each of us had a clear understanding of enterprise architecture, based on several years of experience

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and insight in the eld. However, when we started writing this book, and each of us exposed our individual understandings, it became apparent that our understanding of the eld differed in several ways. This prompted several discussions leading to an abundance of new insights. Without exception, these discussions took place in a pleasant and open atmosphere, fueled by our shared drive for understanding and increased insight. We are now even more convinced than before, that the eld enterprise architecture is a true multi-disciplinary profession. In the resulting book, we would like to share our insights, while also hoping to continue our discussions, now also involving you as a reader. We also realise that the journey is still far from complete. While this introductory book provides an overview of the eld of enterprise architecture from the perspective of our insights, many aspects need further refinement. Driven by the need and desire to reduce costs, organizations are faced with a set of decisions that require analytical scrutiny. Enterprise Architecture A to Z: Frameworks, Business Process Modeling, SOA, and Infrastructure Technology examines cost-saving trends in architecture planning, administration, and management. To establish a framework for discussion, this book begins by evaluating the role of Enterprise Architecture Planning and Service-Oriented Architecture (SOA) modeling. It provides an extensive review of the most widely deployed architecture framework models. In particular, the book discusses The Open Group Architecture Framework (TOGAF) and the Zachman Architectural Framework (ZAF) in detail, as well as formal architecture

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standards and all four layers of these models: the business architecture, the information architecture, the solution architecture, and the technology architecture. The first part of the text focuses on the upper layers of the architecture framework, while the second part focuses on the technology architecture. In this second section, the author presents an assessment of storage technologies and networking and addresses regulatory and security issues. Additional coverage includes high-speed communication mechanisms such as Ethernet, WAN and Internet communication technologies, broadband communications, and chargeback models. Daniel Minoli has written a number of columns and books on the high-tech industry and has many years of technical hands-on and managerial experience at top financial companies and telecom/networking providers. He brings a wealth of knowledge and practical experience to these pages. By reviewing the strategies in this book, CIOs, CTOs, and senior managers are empowered by a set of progressive approaches to designing state-of-the-art IT data centers.

This book constitutes the post-conference proceedings of the CAiSE Forum from the 22nd International Conference on Advanced Information Systems Engineering (CAiSE 2010), held in Hammamet, Tunisia, June 9, 2010. While the CAiSE conference itself focuses on papers that report on matured research, the CAiSE forum was created specifically as a platform to present fresh ideas, new concepts, and new and innovative systems, tools, and applications. The 22 papers presented in this volume were carefully

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reviewed and selected from 32 submissions. The reworked and extended versions of the original presentations cover topics such as business process management, enterprise architecture and modeling, service-oriented architectures, and requirements engineering.

Enterprise Architecture is the discipline of managing the complexities of the Business-IT landscape. It has been around since the 1980's, when for the first time computers were connected in networks, and the already serious (and unsolved) problem of the complexity of computer programs for relatively simple business needs turned into the huge problem of large networks of them in complex business landscapes. In spite of many 'best practices' and 'frameworks' that have been introduced, Enterprise Architecture is not a great success. After thirty years, we still have the same problems. Chaos is still everywhere. Projects still fail far too often. In this book, (hidden) assumptions behind the existing approaches to enterprise architecture are challenged, and a more realistic perspective that helps us battle the complexities and unpredictabilities of today's Business-IT landscapes is described. Practical suggestions about enterprise architecture governance and products, based on real-world experience with the described approach, complete the book. From general management to IT professionals, everyone who is confronted with the problem of managing Business-IT landscapes can profit from the insights this book offers. No specialist prior knowledge is required. Gerben Wierda is author of Mastering ArchiMate, and was, amongst other things, Lead Architect of the Judiciary in The Netherlands, Lead Architect of APG Asset Management, and is now Team Coordinator Architecture & Design at APG. He holds an M.Sc in Physics

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

Software services are established as a programming concept, but their impact on the overall architecture of enterprise IT and business operations is not well-understood. This has led to problems in deploying SOA, and some disillusionment. The SOA Source Book adds to this a collection of reference material for SOA. It is an invaluable resource for enterprise architects working with SOA. The SOA Source Book will help enterprise architects to use SOA effectively. It explains: What SOA is How to evaluate SOA features in business terms How to model SOA How to use The Open Group Architecture Framework (TOGAF™) for SOA SOA governance This book explains how TOGAF can help to make an Enterprise Architecture. Enterprise Architecture is an approach that can help management to understand this growing complexity. Describes ways to incorporate domain modeling into software development.

The first Enterprise Architecture book that compares the 14 most popular Enterprise Architecture Frameworks in the world. A unique book for CIO's, Enterprise Architects and all others interested in EA.

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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.

This book provides practical advice on how to develop an enterprise architecture practice. The authors developed different tools and models to support organizations in implementing and professionalizing an enterprise architecture function. Coverage applies these tools and models to a number of different organizations and, as a result, will help readers avoid potential pitfalls and achieve success with enterprise architecture.

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Presents current developments, issues, and trends in enterprise architecture (EA). Provides insights into the impact of effective EA on IT governance, IT portfolio management, and IT outsourcing.

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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

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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.

This book offers a coherent modeling language that captures the complexity of architectural domains and their relations, allowing the construction of integrated enterprise architecture models. Introduces the ArchiMate(r) language for enterprise architecture.

This book presents an approach to enterprise architecture, which enables corporations to achieve their business objectives faster. Focusing on the governance of IT in the organization, it provides tangible tools, advice and strategies for implementing and designing the architectural process within a corporation that will make a major contribution in driving the business forward and achieve its goals.

This book constitutes the thoroughly refereed proceedings of ten international workshops held in London, UK, in conjunction with the 23rd International Conference

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on Advanced Information Systems Engineering, CAiSE 2011, in June 2011. The 59 revised papers were carefully selected from 139 submissions. The ten workshops included Business/IT Alignment and Interoperability (BUSITAL), Conceptualization of Modelling Methods (CMM), Domain Specific Engineering (DsE@CAiSE), Governance, Risk and Compliance (GRCIS), Integration of IS Engineering Tools (INISSET), System and Software Architectures (IWSSA), Ontology-Driven Information Systems Engineering (ODISE), Ontology, Models, Conceptualization and Epistemology in Social, Artificial and Natural Systems (ONTOSE), Semantic Search (SSW), and Information Systems Security Engineering (WISSE).

Learn how to institute and implement enterprise architecture in your organization. You can make a quick start and establish a baseline for your enterprise architecture within ten weeks, then grow and stabilize the architecture over time using the proven Ready, Set, Go Approach. Reading this book will:

1. Give you directions on how to institute and implement enterprise architecture in your organization. You will be able to build close relationships with stakeholders and delivery teams, but you will not need to micromanage the architecture's operations.
2. Increase your awareness that enterprise architecture is about business, not information technology.
3. Enable you to initiate and facilitate dramatic business development. The architecture of an enterprise must be tolerant of currently unknown business initiatives.
4. Show you how to get a holistic view of the process of implementing enterprise architecture.
5. Make you aware that

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information is a key business asset and that information architecture is a key part of the enterprise architecture. 6. Allow you to learn from our experiences. This book is based on our 30 years of work in the enterprise architecture field, colleagues in Europe, customer cases, and students. We do not pretend to cover all you need to know about enterprise architecture within these pages. Rather, we give you the information that is most important for effective and successful guidance. Sometimes, less is more. If your company is about to make a major change and you are looking for a way to reduce the changes into manageable pieces—and still retain control of how they fit together—this is your handbook. Maybe you are already acting as an enterprise architect and using a formal method, but you need practical hints. Or maybe you are about to set up an enterprise architect network or group of specialists and need input on how to organize your work. The Ready-Set-Go method for introducing enterprise architecture provides you, the enterprise architect, with an immediate understanding of the basic steps for starting, organizing, and operating the entirety of your organization's architecture. Chapter 1: Ready shows how to model and analyze your business operations, assess their current status, construct a future scenario, compare it to the current structure, analyze what you see, and show the result in a city plan. Chapter 2: Set deals with preparing for the implementation of the architecture with governance, enterprise architecture organization, staffing, etc. This is the organizing step before beginning the actual work. Chapter 3: Go establishes how to implement a city plan in practice. It deals

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with the practicalities of working as an enterprise architect and is called the “running” step. The common thread through all aspects of the enterprise architect’s work is the architect’s mastery of a number of tools, such as business models, process models, information models, and matrices. We address how to initiate the architecture process within the organization in such a way that the overarching enterprise architecture and architecture-driven approach can be applied methodically and gradually improved.

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