

# Mastering Archimate Edition Iii A Serious Introduction To The Archimate Enterprise Architecture Modeling Language

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

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

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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.

- Written by expert practitioners who have hands-on experience solving real-world problems for large corporations
- Helps enterprise architects make sense of data, systems, software, services, product lines, methodologies, and much more
- Provides explanation of theory and implementation with real-world business examples to support key points

Mastering ArchiMate Edition 3.1 is the fourth edition of a much praised book about the ArchiMate(R) Enterprise Architecture Modeling Language, which is a standard and a Registered Trade Mark of The Open Group. The book gives an introduction to the language, then goes on to show you key aspects of successful modeling, and many different patterns for its use. From Business to Infrastructure, from Risk & Security to Application Exploitation and Maintenance. While the aim of the book is to teach the language, it often also offers necessary background, so that the patterns can make sense to the reader not familiar with a subject. Thus, it also contains introductions to subjects such as virtualization, bitcoin/blockchain, infrastructure as code, processes versus functions, SOA/API, ESB, Terminal Services, etc. It also contains a short introduction to BPMN(TM) in order to describe a linking of both major languages. Forewords by Marc Lankhorst and Jean-Baptiste Sarrodie. Gerben Wierda

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(1961) is author of Chess and the Art of Enterprise Architecture, and is Lead Architect at APG, one of the largest Fiduciary Managers in the world. Before, he was Lead Architect of the Judiciary of The Netherlands, and Lead Architect of APG Asset Management. 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.

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 guidelines. The Complete Business Process Handbook is the most comprehensive body of knowledge on business processes with revealing new research. Written as a practical guide for Executives, Practitioners, Managers and Students by the authorities that have shaped the way we think and work with process today. It stands out as a masterpiece, being part of the BPM bachelor and master degree curriculum at universities around the world, with revealing academic research and insight from the leaders in the market. This book provides everything you need to know about the processes and frameworks, methods, and approaches to implement BPM. Through real-world examples, best practices, LEADing practices and advice from experts, readers will understand how BPM works and how to best use it to their advantage. Cases from industry leaders and innovators show how early adopters of LEADing Practices improved their businesses by using BPM technology and methodology. As the first of three volumes, this book represents the most comprehensive body of knowledge published on business process. Following closely behind, the

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second volume uniquely bridges theory with how BPM is applied today with the most extensive information on extended BPM. The third volume will explore award winning real-life examples of leading business process practices and how it can be replaced to your advantage. Learn what Business Process is and how to get started Comprehensive historical process evolution In-depth look at the Process Anatomy, Semantics and Ontology Find out how to link Strategy to Operation with value driven BPM Uncover how to establish a way of Thinking, Working, Modelling and Implementation Explore comprehensive Frameworks, Methods and Approaches How to build BPM competencies and establish a Center of Excellence Discover how to apply Social BPM, Sustainable and Evidence based BPM Learn how Value & Performance Measurement and Management Learn how to roll-out and deploy process Explore how to enable Process Owners, Roles and Knowledge Workers Discover how to Process and Application Modelling Uncover Process Lifecycle, Maturity, Alignment and Continuous Improvement Practical continuous improvement with the way of Governance Future BPM trends that will affect business Explore the BPM Body of Knowledge

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

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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.

Incorporating many recent changes and new developments in the planning and design of single-family dwellings, apartments, housing complexes, and neighborhoods, the second edition of this authoritative volume in McGraw-Hill's acclaimed Time-Saver Standards series continues to offer design professionals access to a unique data bank of design standards and criteria for creating more functional and livable environments. In superb graphic detail - with hundreds of plans, illustrations, and diagrams - this comprehensive one-volume resource presents an entire library's worth of essential architectural design information for all types of housing and residential development.

TOGAF is a framework - a detailed method and a set of supporting tools - for developing an enterprise architecture, developed by members of The Open Group Architecture Forum. TOGAF Version 9.1 is a maintenance update to TOGAF 9, addressing comments raised since the introduction of TOGAF 9 in 2009. It retains the major features and

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structure of TOGAF 9, thereby preserving existing investment in TOGAF, and adds further detail and clarification to what is already proven. It may be used freely by any organization wishing to develop an enterprise architecture for use within that organization (subject to the Conditions of Use). This Book is divided into seven parts: Part I - Introduction This part provides a high-level introduction to the key concepts of enterprise architecture and in particular the TOGAF approach. It contains the definitions of terms used throughout TOGAF and release notes detailing the changes between this version and the previous version of TOGAF. Part II - Architecture Development Method This is the core of TOGAF. It describes the TOGAF Architecture Development Method (ADM) – a step-by-step approach to developing an enterprise architecture. Part III - ADM Guidelines & Techniques This part contains a collection of guidelines and techniques available for use in applying TOGAF and the TOGAF ADM. Part IV - Architecture Content Framework This part describes the TOGAF content framework, including a structured metamodel for architectural artifacts, the use of re-usable architecture building blocks, and an overview of typical architecture deliverables. Part V - Enterprise Continuum & Tools This part discusses appropriate taxonomies and tools to categorize and store the outputs of architecture activity within an enterprise. Part VI - TOGAF Reference Models This part provides a selection of architectural reference models, which includes the TOGAF Foundation Architecture, and the Integrated Information Infrastructure Reference Model (III-RM). Part VII Architecture Capability Framework This section looks at roles, Governance, compliance skills and much more practical guidance

IT Architecture. Enterprise IT architecture  
blueprinting. Configuration management. EAB

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## Miscellany.

Vaughn Vernon presents concrete and realistic domain-driven design (DDD) techniques through examples from familiar domains, such as a Scrum-based project management application that integrates with a collaboration suite and security provider. Each principle is backed up by realistic Java examples, and all content is tied together by a single case study of a company charged with delivering a set of advanced software systems with DDD.

"More than just a nice-to-look-at, easy-to-flip-through book...Pricken has loftier goals—namely, to transform readers into top creatives by introducing them to a variety of techniques and ideas."—Adweek

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

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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 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.

Avoid getting lost in the complexity of Azure with The Azure Cloud Native Architecture Mapbook. This book will give you an expert-guided tour of Azure

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and help you map different architectural perspectives for various architecture disciplines. You'll learn how to apply the different architectural styles and become a better Azure Architect.

This book contains all refereed papers accepted during the fourth asia-pacific edition & twelve edition-which were merged this year-of the CSD&M conference that took place in Beijing, People's Republic of China by 2021. Mastering complex systems requires an integrated understanding of industrial practices as well as sophisticated theoretical techniques and tools. This explains the creation of an annual go-between European and Asian forum dedicated to academic researchers & industrial actors working on complex industrial systems architecting, modeling & engineering. These proceedings cover the most recent trends in the emerging field of complex systems, both from an academic and professional perspective. A special focus was put this year on Digital Transformation in Complex Systems Engineering CESAM Community The CSD&M series of conferences are organized under the guidance of CESAM Community, managed by CESAMES. CESAM Community aims in organizing the sharing of good practices in systems architecting and model-based systems engineering (MBSE) and certifying the level of knowledge and proficiency in this field through the CESAM certification. The CESAM systems

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architecting & model-based systems engineering (MBSE) certification is especially currently the most disseminated professional certification in the world in this domain through more than 1,000 real complex system development projects on which it was operationally deployed and around 10,000 engineers who were trained on the CESAM framework at international level.

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.

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

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

Putting capability management into practice requires both a solid theoretical foundation and realistic approaches. This book introduces a development methodology that integrates business and information system development and run-time adjustment based on the concept of capability by presenting the main findings of the CaaS project – the Capability-Driven Development (CDD) methodology, the architecture and components of the CDD environment, examples of real-world

applications of CDD, and aspects of CDD usage for creating business value and new opportunities. Capability thinking characterizes an organizational mindset, putting capabilities at the center of the business model and information systems development. It is expected to help organizations and in particular digital enterprises to increase flexibility and agility in adapting to changes in their economic and regulatory environments. Capability management denotes the principles of how capability thinking should be implemented in an organization and the organizational means. This book is intended for anyone who wants to explore the opportunities for developing and managing context-dependent business capabilities and the supporting business services. It does not require a detailed understanding of specific development methods and tools, although some background knowledge and experience in information system development is advisable. The individual chapters have been written by leading researchers in the field of information systems development, enterprise modeling and capability management, as well as practitioners and industrial experts from these fields. This volume constitutes the proceedings of the combined 7th International Workshop on Trends in Enterprise Architecture Research (TEAR 2012) and the 5th Working Conference on Practice-Driven Research on Enterprise Transformation (PRET-5),

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held in Barcelona, Spain, October 23-24, 2012, and co-located with The Open Group's Conference on Enterprise Architecture, Cloud Computing, and Security. Joining the forces of the two events with The Open Group Conference provided the unique opportunity for an intensive exchange between practitioners as well as for discussions on standardization efforts and academic research in the areas of enterprise transformation and enterprise architecture (EA). Based on careful reviews by at least three Program Committee members, 18 papers were chosen for inclusion in these proceedings. They were presented in six sessions on enterprise architecture management (EAM) effectivity, languages for EA, EAM and the ability to change, advanced topics in EA, governing enterprise transformations, and EA applications.

How to navigate your strategy journey in business using a five model framework and methodology that teaches you to play 'SMART' and 'win' in the game of business and career ascension.

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

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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

ArchiMate®, an Open Group Standard, is an open and independent modelling 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

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ArchiMate 2.1 from The Open Group. ArchiMate 2.1 is a maintenance update to ArchiMate 2.0, addressing comments raised since the introduction of ArchiMate 2.0 in 2012. The ArchiMate 2.1 Standard supports modelling 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 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.

Mastering Archimate Edition IIIA Serious Introduction to the Archimate(r) Enterprise Architecture Modeling Language R&a

This book constitutes the refereed proceedings of the 20th International Conference on Product-Focused Software Process Improvement, PROFES 2019, held in Barcelona, Spain, in November 2019. The 24 revised full papers 4 industry papers, and 11 short papers presented were carefully reviewed and

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selected from 104 submissions. The papers cover a broad range of topics related to professional software development and process improvement driven by product and service quality needs. They are organized in topical sections on testing, software development, technical debt, estimations, continuous delivery, agile, project management, microservices, and continuous experimentation. This book also includes papers from the co-located events: 10 project papers, 8 workshop papers, and 4 tutorial summaries.

ArchiMate(R), an Open Group Standard, is 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 architecture domains in an unambiguous way. This Pocket Guide is based on the ArchiMate(R) 3.1 Specification. It gives a concise introduction to the ArchiMate language. What's more, it's authoritative with material derived from the official ArchiMate documentation. Topics covered include: ?A high-level introduction to the ArchiMate Specification and its relationship to Enterprise Architecture ?The high-level structure of the ArchiMate language, including an introduction to layering, and the ArchiMate Framework ?The Generic Metamodel for the language ?The relationships that the ArchiMate

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language includes to model the links between elements ?The Motivation Elements, which includes concepts such as goal, principle, and requirement ?The Strategy Elements, which includes concepts such as resource, capability, and course of action ?The Business Layer, which includes the modeling concepts relevant in the business domain ?The Application Layer, which includes modeling concepts relevant for software applications ?The Technology Layer, which includes modeling concepts relevant for system software applications and infrastructure ?The Physical Elements, which include concepts relevant for the modeling of physical concepts like machines and physical installations ?The relationships between different layers of the language ?The Implementation and Migration Elements, which include concepts to support modeling Enterprise Architecture-enabled transformation ?A summary of the changes from ArchiMate 2.1 to ArchiMate 3.1 A Glossary of terms

Futurists are certain that humanlike AI is on the horizon, but in fact engineers have no idea how to program human reasoning. AI reasons from statistical correlations across data sets, while common sense is based heavily on conjecture. Erik Larson argues that hyping existing methods will only hold us back from developing truly humanlike AI. Domain-Driven Design (DDD) software modeling delivers powerful results in practice, not just in

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theory, which is why developers worldwide are rapidly moving to adopt it. Now, for the first time, there's an accessible guide to the basics of DDD: What it is, what problems it solves, how it works, and how to quickly gain value from it. Concise, readable, and actionable, *Domain-Driven Design Distilled* never buries you in detail—it focuses on what you need to know to get results. Vaughn Vernon, author of the best-selling *Implementing Domain-Driven Design*, draws on his twenty years of experience applying DDD principles to real-world situations. He is uniquely well-qualified to demystify its complexities, illuminate its subtleties, and help you solve the problems you might encounter. Vernon guides you through each core DDD technique for building better software. You'll learn how to segregate domain models using the powerful Bounded Contexts pattern, to develop a Ubiquitous Language within an explicitly bounded context, and to help domain experts and developers work together to create that language. Vernon shows how to use Subdomains to handle legacy systems and to integrate multiple Bounded Contexts to define both team relationships and technical mechanisms. *Domain-Driven Design Distilled* brings DDD to life. Whether you're a developer, architect, analyst, consultant, or customer, Vernon helps you truly understand it so you can benefit from its remarkable power. Coverage includes What DDD can do for you

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and your organization—and why it's so important The cornerstones of strategic design with DDD: Bounded Contexts and Ubiquitous Language Strategic design with Subdomains Context Mapping: helping teams work together and integrate software more strategically Tactical design with Aggregates and Domain Events Using project acceleration and management tools to establish and maintain team cadence

Java is growing in popularity at lightning speed. However, documentation for the APIs of this language is limited to online documents with little or no augmented explanations, examples, or quick reference tools. The Java API Reference: java.applet and java.awt API Packages solves this problem by providing all of the detail, explanations, and tools you need to optimize your Java applet programming.

This reference includes complete coverage of the java.awt and java.applet API packages, replete with detailed descriptions, syntax, and working examples of their constructors, methods, and variables. The Java API Reference is a handy desktop reference for the serious or recreational Java programmer. It explains usage of the java.awt and java.applet APIs distributed by Sun; details each API class, constructor, method, and variable; and serves as the essential reference tool for Java programmers.

ArchiMate®, an Open Group Standard, is an open and independent modeling language for Enterprise

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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 architecture domains in an unambiguous way. This Pocket Guide is based on the ArchiMate® 3.0.1 Specification. It gives a concise introduction to the ArchiMate language. What's more, it's authoritative with material derived from the official ArchiMate documentation. Topics covered include:

- A high-level introduction to the ArchiMate Specification and its relationship to Enterprise Architecture
- The high-level structure of the ArchiMate language, including an introduction to layering, and the ArchiMate Framework
- The Generic Metamodel for the language
- The relationships that the ArchiMate language includes to model the links between elements
- The Motivation Elements, which includes concepts such as goal, principle, and requirement
- The Strategy Elements, which includes concepts such as resource, capability, and course of action
- The Business Layer, which includes the modeling concepts relevant in the business domain
- The Application Layer, which includes modeling concepts relevant for software applications
- The Technology Layer, which includes modeling concepts relevant for system software applications and infrastructure
- The Physical Elements, which include concepts relevant for the modeling of physical concepts like machines

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and physical installations• The relationships between different layers of the language• The Implementation and Migration Elements, which include concepts to support modeling Enterprise Architecture-enabled transformation• A summary of the major changes from ArchiMate 2.1 to ArchiMate 3• A Glossary of terms

This title is the Study Guide for the TOGAF® Business Architecture Part 1 Examination. It gives an overview of every learning objective for the TOGAF Business Architecture Syllabus and in-depth coverage on preparing and taking the TOGAF Business Architecture Part 1 Examination. It is specifically designed to help individuals prepare for certification. This Study Guide is excellent material for:

- Individuals who require knowledge and understanding of TOGAF Business Architecture techniques;
- Professionals who are working in roles associated with an architecture project such as those responsible for planning, execution, development, delivery, and operation;
- Architects who are looking to achieve the TOGAF Business Architecture Level 1 credential;
- Architects who want to specialize in development of a Business Architecture based on the TOGAF Standard, Version 9.2;

It covers the following topics:

- Business Modeling
- Business Capabilities
- Value Streams
- Information Mapping
- TOGAF Business Scenarios and how to apply them in development of a Business Architecture

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based on the TOGAF Standard, Version 9.2. A prior knowledge of Enterprise Architecture is advantageous but not required. While reading this Study Guide, the reader should also refer to the TOGAF Standard, Version 9.2 documentation (manual), available as hard copy and eBook, from [www.vanharen.net](http://www.vanharen.net) and online booksellers, and also available online at [www.opengroup.org](http://www.opengroup.org).

This is the only book on holistic (organization-wide) enterprise architecture (EA) that integrates strategic, business, and technology planning. The approach includes detailed information on EA governance, implementation, and use, including an example case study, a new chapter on solution architecture methods, and a new chapter on the use of EA to support organizational restructuring as part of mergers and acquisitions. Written in plain language, this book is recommended for executives, managers, and staff in large, complex public and private sector organizations that are too silo'd and/or have highly dynamic operating environments. No prior knowledge on the subject is needed.

This book contains the proceedings of two long-running events held along with the CAiSE conference relating to the areas of enterprise, business-process and information systems modeling: \* the 21st International Conference on Business Process Modeling, Development and Support, BPMDS 2020, and \* the 25th International

Conference on Exploring Modeling Methods for Systems Analysis and Development, EMMSAD 2020. The conferences were planned to take place in Grenoble, France, during June 8-9, 2020. They were held virtually due to the COVID-19 pandemic. For BPMDS 13 full papers and 1 short paper were carefully reviewed and selected for publication from a total of 30 submissions; for EMMSAD 11 full papers and 4 short papers were accepted from 29 submissions. The papers were organized in topical sections named as follows: BPMDS: Business process execution and monitoring, BPM applications in industry and practice, planning and scheduling in business processes, process mining, process models and visualizations EMMSAD: Requirements and method engineering, enterprise and business modeling, software-related modeling, domain-specific modeling, evaluation-related research. This volume presents a series of carefully selected papers on the theme of Intelligent Interactive Multimedia Systems and Services (IIMSS-18), but also including contributions on Innovation in Medicine and Healthcare (InMed-18) and Smart Transportation Systems (STS-18). The papers were presented at the Smart Digital Futures 2018 multi-theme conference, which grouped the AMSTA, IDT, InMed, SEEL, STS and IIMSS conferences in one venue in Gold Coast, Australia in June 2018. IIMSS-18 included sessions on 'Cognitive Systems

and Big Data Analytics', 'Data Processing and Secure Systems', 'Innovative Information Services for Advanced Knowledge Activity', 'Autonomous System' and 'Image Processing'. InMed-18 papers cover major areas of 'Digital Architecture for Internet of Things, Big data, Cloud and Mobile IT in Healthcare' and 'Advanced ICT for Medical and Healthcare'. STS-18 papers provide a comprehensive overview of various aspects of current research into intelligent transportation technology.

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

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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.

You are working very hard, but does it really make a difference? Are you: ? An Enterprise Architect finding your great ideas have a very limited impact on business decisions? ? A Service or UX designer tired of creating concepts that are never implemented the way you envisioned them? ? A Business Analyst wanting to work on the big picture instead of point solutions? Then this book is for you. The patterns in this book capture the wisdom of practitioners from many different fields and provide practical guidance on: ? How to deal with common obstacles in the enterprise design practice; ? Producing creations that people love to co-create; ? Building the relationships you need for collaborative design; ? Applying experience-based, pragmatic design practices. This book lays the foundation for the practice of designing enterprises to improve their

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Identity, Experience and Architecture.

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

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industry as well as for computer or management science students studying the field of enterprise architecture.

The Only Complete Technical Primer for MDM Planners, Architects, and Implementers Companies moving toward flexible SOA architectures often face difficult information management and integration challenges. The master data they rely on is often stored and managed in ways that are redundant, inconsistent, inaccessible, non-standardized, and poorly governed. Using Master Data Management (MDM), organizations can regain control of their master data, improve corresponding business processes, and maximize its value in SOA environments. Enterprise Master Data Management provides an authoritative, vendor-independent MDM technical reference for practitioners: architects, technical analysts, consultants, solution designers, and senior IT decisionmakers. Written by the IBM® data management innovators who are pioneering MDM, this book systematically introduces MDM's key concepts and technical themes, explains its business case, and illuminates how it interrelates with and enables SOA. Drawing on their experience with cutting-edge projects, the authors introduce MDM patterns, blueprints, solutions, and best practices published nowhere else—everything you need to establish a consistent, manageable set of master data, and use it for competitive advantage. Coverage includes How MDM and SOA complement each other Using the MDM Reference Architecture to position and design MDM solutions within an enterprise Assessing the value and

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risks to master data and applying the right security controls Using PIM-MDM and CDI-MDM Solution Blueprints to address industry-specific information management challenges Explaining MDM patterns as enablers to accelerate consistent MDM deployments Incorporating MDM solutions into existing IT landscapes via MDM Integration Blueprints Leveraging master data as an enterprise asset—bringing people, processes, and technology together with MDM and data governance Best practices in MDM deployment, including data warehouse and SAP integration

This book constitutes the refereed proceedings of the Third International Conference on Convergent Cognitive Information Technologies, Convergent 2018, held in Moscow, Russia, in December 2018. The 26 revised full papers and 9 short papers were carefully reviewed and selected from 147 submissions. The papers of this volume are organized in topical sections on theoretical questions of computer science, computational mathematics, computer science and cognitive information technologies; cognitive information technologies in control systems; big data and applications; the Internet of Things (IoT): standards, communication and information technologies, network applications; smart cities: standards, cognitive-information technologies and their applications.- cognitive information technologies in the digital economics.- digital transformation of transport. An Introduction to Enterprise Architecture is the culmination of several decades of experience that I have gained through work initially as an information

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technology manager and then as a consultant to executives in the public and private sectors. I wrote this book for three major reasons: (1) to help move business and technology planning from a systems and process-level view to a more strategy-driven enterprise-level view, (2) to promote and explain the emerging profession of EA, and (3) to provide the first textbook on the subject of EA, which is suitable for graduate and undergraduate levels of study. To date, other books on EA have been practitioner books not specifically oriented toward a student who may be learning the subject with little to no previous exposure. Therefore, this book contains references to related academic research and industry best practices, as well as my own observations about potential future practices and the direction of this emerging profession.

This effective study guide offers comprehensive coverage of topics comprising the enterprise architecture body of knowledge. The book provides detailed coverage and lays out actionable methodologies and best practices to create and maintain successful EA models, artifacts and building blocks. It helps prepare readers to take any of the various EA certification exams and academic courses in enterprise architecture. This highly effective self-study guide offers comprehensive coverage of all topics in the enterprise architecture body of knowledge. Written by a team of experienced academics, practitioners, and professionals, the book takes a holistic look at the practice of enterprise architecture. You will get actionable methodologies and best practices and learn how to develop, deploy, and

