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# An Introduction To Enterprise Architecture Third Edition

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Integrating Business Processes with IT Infrastructure

Enterprise Architecture Patterns

Chess and the Art of Enterprise Architecture

Architecture Principles

Introduction to Business Architecture

A Practical Guide Using UML and BPMN

Designing Enterprise Architecture Frameworks

From Enterprise Architecture to IT Governance

Understand Your Organisation - Improve Your Business

Third Edition

Building an Enterprise Architecture Practice

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Enterprise Architecture at Work

Enterprise Architecture

Modelling, Communication and Analysis

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An Introduction to Holistic Enterprise Architecture

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Enterprise Architecture Function

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*An Introduction To  
Enterprise Architecture  
Third Edition*

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## **ASHER FARMER**

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Integrating Business Processes with IT  
Infrastructure Springer Science & Business  
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An enterprise architecture tries to describe and control an organisation's structure, processes, applications, systems and techniques in an integrated way. The unambiguous specification and description of components and their relationships in such an architecture requires a coherent

architecture modelling language. Lankhorst and his co-authors present such an enterprise modelling language that captures the complexity of architectural domains and their relations and allows the construction of integrated enterprise architecture models. They provide architects with concrete instruments that improve their architectural practice. As this is not enough, they additionally present techniques and heuristics for communicating with all relevant stakeholders about these architectures. Since an architecture model is useful not only for providing insight into the current

or future situation but can also be used to evaluate the transition from 'as-is' to 'to-be', the authors also describe analysis methods for assessing both the qualitative impact of changes to an architecture and the quantitative aspects of architectures, such as performance and cost issues. The modelling language presented has been proven in practice in many real-life case studies and has been adopted by The Open Group as an international standard. So this book is an ideal companion for enterprise IT or business architects in industry as well as for computer or management science students studying

the field of enterprise architecture.

Enterprise Architecture Patterns McGraw-Hill Education

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.

Chess and the Art of Enterprise Architecture Springer Science & Business Media

Enterprise architecture requires an understanding of all technologies, strategies, and data consumption throughout the enterprise. To this end, one must strive to always broaden knowledge of existing, as well as emerging trends and solutions. As a trade, this role demands an understanding beyond the specificities of technologies and vendor products

*Architecture Principles* CRC Press  
An Introduction to Enterprise

ArchitectureThird EditionAuthorHouse  
Introduction to Business Architecture Seat Consulting Ltd

Most organisations have problems in explaining and managing the economic benefits of Enterprise Architecture. Managers often asked me what Enterprise Architecture can do for me. At the same time several Governmental organisations are adopting Enterprise Architecture as part of their change and E-Government initiatives. A holistic Enterprise Architecture approach can deliver a lot of benefits to organisations depending on the focus where to find these benefits. Even so Enterprise Architecture delivers the foundation for Enterprise Portfolio Management, the ultimate business driver for Enterprise Architecture. The main purpose of this book is achieving awareness at management level as well as at enterprise architects level about adopting an economic approach when dealing with Enterprise Architecture programs. This book explains the areas of economic benefits of Enterprise Architecture programs, the different views as well as a holistic approach to show the areas of economic benefits. Economic

methods, models and approaches are described in short to show, how to quantify and manage the economic benefits of Enterprise Architecture programs as well as how Enterprise Architecture supports Enterprise Portfolio Management. This book has not the intention to be a scientific research document, nor a handbook to deliver solutions for all your EA related economic issues. The intention of the book is showing (board) management, CxO's, business & IT managers, enterprise architects and students, that they can make progress in the determination of the economic value of Enterprise Architecture programs by adopting some economic methods and defining a process of collecting data of Enterprise Architecture effected activities and programs. With the growing importance of Enterprise Architecture at the same time, the discussion started how to align Business and IT on a natural way, now and in the future and how this fits in the overall Enterprise Portfolio. This book is also showing that alignment of business and technology is hard to do, but there is hope. This book is giving a holistic

overview of the areas of economic benefits of Enterprise Architecture as well as the role, position and purpose of Enterprise Architecture programs in organizations as the foundation for change in Business and IT, embraced by Enterprise Portfolio Management. Cost / benefit figures from public sources are added to this book to show the effects of economic measurement. For the in-depth details of the described Enterprise Architecture economic approaches and methods, several references to the original sources of information are added in the chapters Terms & Definitions, References & Bibliography and Interested Links.

A Practical Guide Using UML and BPMN  
Pragmatic EC Limited

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 maintain successful enterprise architecture models, artifacts, and building blocks. Designed to help you prepare for certification, the Certified Enterprise Architect All-in-One Exam Guide also serves as an essential on-the-job reference. Coverage includes: •Enterprise architecture foundation concepts •Planning the enterprise architecture •Enterprise architecture development, governance, and maintenance •Defense frameworks •Viewpoints and views •The Zachman Framework •The Open Group Architecture Framework (TOGAF) •The Common Approach to Federal Enterprise Architecture •FEAF2 •Comparison of frameworks •Case Study integrated throughout the text •And much more  
*Designing Enterprise Architecture*

### Frameworks AuthorHouse

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

### **From Enterprise Architecture to IT Governance**

Harvard Business Press  
This book provides a method to plan, develop, validate, or evolve the design of an enterprise architecture function so that it fully meets the organization's needs. The reader will benefit from this book in two ways. First, it provides a structured overview and orientation to the subject of architecture from an architecture function perspective. Second, it guides through the process of planning, building, and operating your own architecture organization based on a generic architecture function blueprint presented in the form of a pattern language offering

a structured means for navigating, contextualizing, combining, and composing the architecture function patterns. The book is structured in six chapters. Chapter 1 "Introduction" explains the starting position and objectives of the book and introduces key concepts that will be explained further in subsequent chapters. Chapter 2 "Architecture Function Pattern Language" introduces the concepts of pattern, pattern catalogue, pattern topology, and ontology and explains how these concepts are combined to form a pattern language for planning, designing, and operating an architecture function. Next, Chapter 3 "Architecture Function - Context" introduces concepts that are crucial for understanding the challenges that an architecture function faces and presents a generic schema for the business organizations and value chain. Chapter 4 "Architecture Function - Challenge" looks at an architecture function from a black box perspective and outlines the expectations and requirements that companies place on architecture organizations. It discusses the building blocks of an architecture function, the

services it provides along the enterprise value chain, and the quality attributes that enterprises expect from their functions. Chapter 5 “Architecture Function – Constitution” then shifts from a black-box perspective to a white-box perspective and outlines the generic design of an architecture function in order to realize functional and quality-related requirements. Chapter 6 “Pattern Catalogue” eventually introduces the pattern catalogue with a total of 48 architecture function patterns. These patterns suggest designs for collaboration between the architecture function and enterprise organizations, for the elaboration and development of enterprise services along the enterprise value chain, or for aligning architecture governance with enterprise governance. The book is intended for a broad readership, including enterprise, domain, and solution architects, lecturers and students, and anyone else interested in understanding the value proposition, responsibilities, outcomes, methods, and practices of architecture functions. It introduces the basic concepts and theories needed to understand the pattern language

presented and the patterns it summarizes. *Understand Your Organisation - Improve Your Business* Springer Science & Business Media  
 bull; Written by expert practitioners who have hands-on experience solving real-world problems for large corporations bull;  
 Helps enterprise architects make sense of data, systems, software, services, product lines, methodologies, and much more bull;  
 Provides explanation of theory and implementation with real-world business examples to support key points  
Third Edition An Introduction to Enterprise Architecture Third Edition  
 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.

**Building an Enterprise Architecture Practice** Muska/Lipman

Enterprise Architecture(EA) has evolved over the past few decades into a discipline that is now embedded, as a core function, into a plethora of organisations. The goal of EA and more importantly Enterprise Systems Architecture(EsA) is to deliver ongoing alignment between the business and the technology landscape. This requires a specific set of technical and business skills and more importantly an approach (mind-set) to delivering continual value. If you work as an Architect (Enterprise, Solution or Technical), a CTO, Business Analyst or Stakeholder in delivering technology services to your organisation then this book will enhance and reinforce your tool chest. This book aims to sharpen the mind-set and addresses the following two questions; •How do you align your Technology landscape to Service your Business Operating Model? •How do you develop an ICT Strategy to meet the needs of your organisation?

**Enterprise Architecture A to Z** Meghan-Kiffer Press

"In this book, Vivek Kale makes an important contribution to the theory and practice of enterprise architecture ... this

book captures the breadth and depth of information that a modern enterprise architecture must address to effectively support an agile enterprise. This book should have a place in every practicing architect's library." —John D. McDowall, Author of Complex Enterprise Architecture  
Digital Transformation of Enterprise Architecture is the first book to propose Enterprise Architecture (EA) as the most important element (after Business Models) for digital transformation of enterprises. This book makes digital transformation more tangible by showing the rationale and typical technologies associated with it, and these technologies in turn reveal the essence of digital transformation. This book would be useful for analysts, designers and developers of future-ready agile application systems. This book proposes that it is the perennial quest for interoperability & portability, scalability, availability, etc., that has directed and driven the evolution of the IT/IS industry in the past 50 years. It is this very quest that has led to the emergence of technologies like service-oriented, cloud, and big data computing. In addition to the conventional attributes of EA like interoperability,

scalability and availability, this book identifies additional attributes of mobility, ubiquity, security, analyticity, and usability. This pragmatic book: Identifies three parts effort for any digital transformation: Business Models, Enterprise Architectures and Enterprise Processes. Describes eight attributes of EA: interoperability, scalability, availability, mobility, ubiquity, security, analyticity, and usability. Explains the corresponding technologies of service-oriented, cloud, big data, context-aware, Internet of Things (IoT), blockchain, soft, and interactive computing. Briefs on auxiliary technologies like integration, virtualization, replication, spatio-temporal databases, embedded systems, cryptography, data mining, and interactive interfaces that are essential for digital transformation of enterprise architecture. Introduces interactive interfaces like voice, gaze, gesture and 3D interfaces. Provides an overview of blockchain computing, soft computing, and customer interaction systems. Digital Transformation of Enterprise Architecture proposes that to withstand the disruptive digital storms of the future, enterprises must bring about

digital transformation, i.e. a transformation that affects an exponential change (amplification or attenuation) in any aspect of the constituent attributes of EA. It proposes that each of these technologies (service-oriented, cloud, big data, context-aware, IoT, blockchain, soft, and interactive computing) bring about digital transformation of the corresponding EA attribute viz. interoperability, scalability, availability, mobility, ubiquity, security, analyticity, and usability.

**Creating a Foundation for Business Execution** Prentice Hall Professional

Based on an extensive study of the actual industry best practices, this book provides a systematic conceptual description of an EA practice and offers practically actionable answers to the key questions related to enterprise architecture.

*Creating Value by Informed Governance*  
Springer Science & Business Media

"Enterprise Architecture - the Eight Fundamental Factors" is an invaluable guide providing practical advice, examples and case studies that show how successful enterprise architects make a real difference. The fundamental factors described here are true for all enterprise

architecture (EA) approaches. You will find them in The Open Group Architecture Framework (TOGAF), the Zachman Framework, and in every other EA methodology or framework. The book provides a combined, integrated EA approach. It shows exactly how these factors are used in practice, and it demonstrates this with details drawn from a wide-range of typical EA initiatives. The first edition was published in 2003 under the title "Information First."

**Cloud Enterprise Architecture** Springer Science & Business Media

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

**Aligning Organisational Business Operating Models to Technology Landscapes** CRC Press

This reference provides a practical introduction to PEAf (pragmatic enterprise architecture framework) and its use in enterprise-architecture practice for those who want to explore how to get an enterprise on track with EA.

**Frameworks, Business Process Modeling, SOA, and Infrastructure Technology** Newnes

"Regardless of the type of architecture, architecture itself is an organized accumulation of knowledge within a particular domain. While we generally conceive of its representation as a set of diagrams, containing specific notations and taxonomies of symbols and glossary terms, an architecture may actually be represented using anything that can be arranged in a pattern to record information. The earliest forms of architecture relate to architecting buildings, monuments, military disciplines, organized religion, music, storytelling, and various other forms within the arts. These

early forms of architecture of course predate computer related architectures by thousands of years. That said, it is worth noting that there are a number of common elements among architectures irrespective of their relative age, such as forms of standardization, reusable structures, the accumulation of knowledge, and providing a context for understanding something. Needless to say, anyone can be an architect in a topic in which they have a deep understanding and appreciation of. While one obvious difference among architects is the amount and variety of pertinent experience, the less obvious difference is the degree to which an architect recognizes the potential forms of standardization, reusable structures, accumulation of knowledge, relationships among the components, and use of architecture as an accelerator to more rapidly understand the context and scope of a particular topic or to rapidly convey it to another. Architectures as a result must be easy to understand"--

[Enterprise Architecture at Work](#) CRC Press

"This book provides guidance on how to employ enterprise architecture (EA) in deploying and managing information

technology (IT) solutions from the perspectives of pragmatic strategies. It uses sociotechnical theories such as actor-network theory (ANT) and structuration theory (ST) as lenses to examine challenges and complexities of EA"--

**Enterprise Architecture** Morgan Kaufmann

This book gathers together a critical body

of knowledge on what enterprise architecture (EA) is and how it can be used to better organize the functions of systems across an enterprise for an effective business-IT alignment. The chapters provide a solid foundation for a cross-disciplinary professional practice.

*Modelling, Communication and Analysis*

Steps Publishing Australia

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.

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