

# Enterprise Architecture Planning Developing A Blueprint For Data Applications And Technology Computer Science

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## VALENCIA LANEY

Harvard Business Press  
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.  
**Creating Value by Informed Governance** Transportation Research Board  
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.

**Enterprise Architecture Patterns** Packt Publishing Ltd  
This book investigates solutions incorporated by architecture boards in global enterprises to resolve issues and mitigate related architecture risks, while also proposing and implementing an adaptive integrated digital architecture framework (AIDAF) and related models and approaches/platforms, which can be applied in companies to promote IT strategies using cloud/mobile IT/digital IT. The book is divided into three main parts, the first of which (Chapters 1-2) addresses the background and motivation for AIDAF in connection with IT strategies for cloud/mobile IT/digital IT. The second part (Chapter 3) provides an overview of strategic enterprise architecture (EA) frameworks and related models in the era of digital IT, elaborates on the essential elements of EA frameworks in the era of cloud/mobile IT/digital IT, and advocates using AIDAF and related models for architecture assessment/risk management and knowledge management on digital platforms. In turn, the third part (Chapters 4-7) demonstrates the application and benefits of AIDAF and several

related approaches/models, as shown in three case studies. “I found this book to be a very nice contribution to the EA community of practice. I can recommend this book as a textbook for digital IT strategists/practitioners, EA practitioners, students in universities and graduate schools.” (From the Foreword by Scott A. Bernard) “In this new age of the digital information society, it is necessary to advocate a new EA framework. This book provides state-of-the art knowledge and practices about EA frameworks beneficial for IT practitioners, IT strategists, CIO, IT architects, and even students. It serves as an introductory textbook for all who drive the information society in this era.”(From the Foreword by Jun Murai)

#### Enterprise Business Architecture IGI Global

*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

#### *How to Achieve a 21st Century Enterprise Architecture Services Capability.* CRC Press

Dismantle the overwhelming complexity in your IT projects with strategies and real-world examples from a leading expert on enterprise architecture. This guide describes best practices for creating an efficient IT organization that consistently delivers on time, on budget, and in line with business needs. IT systems have become too complex—and too expensive. Complexity can create delays, cost overruns, and outcomes that do not meet business requirements. The resulting losses can impact your entire company. This guide demonstrates that, contrary to popular belief, complex problems demand simple solutions. The author believes that 50 percent of the complexity of a typical IT project can and should be eliminated—and he shows you how to do it. You'll learn a model for understanding complexity, the three tenets of complexity control, and how to apply specific techniques such as checking architectures for validity. Find out how the author's methodology could have saved a real-world IT project that went off track, and ways to implement his solutions in a variety of situations.

#### *Integrated Transformation Strategies* CRC Press

A critical part of any company's successful strategic planning is the creation of an Enterprise Business Architecture (EBA) with its formal linkages. Strategic research and analysis firms have recognized the importance of an integrated enterprise architecture and they have frequently reported on its increasing value to successful companies. Enterpr

#### *Enterprise Architecture Planning* iUniverse

Every enterprise architect faces similar problems when designing

and governing the enterprise architecture of a medium to large enterprise. Design patterns are a well-established concept in software engineering, used to define universally applicable solution schemes. By applying this approach to enterprise architectures, recurring problems in the design and implementation of enterprise architectures can be solved over all layers, from the business layer to the application and data layer down to the technology layer. Inversini and Perroud describe patterns at the level of enterprise architecture, which they refer to as Enterprise Architecture Patterns. These patterns are motivated by recurring problems originating from both the business and the underlying application, or from data and technology architectures of an enterprise such as identity and access management or integration needs. The Enterprise Architecture Patterns help in planning the technological and organizational landscape of an enterprise and its information technology, and are easily embedded into frameworks such as TOGAF, Zachman or FEA. This book is aimed at enterprise architects, software architects, project leaders, business consultants and everyone concerned with questions of IT and enterprise architecture and provides them with a comprehensive catalogue of ready-to-use patterns as well as an extensive theoretical framework to define their own new patterns.

Modelling, Communication and Analysis \*A Wiley-QED Publication  
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.

#### Erickson Methodology for 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.

A Modern Approach to Business and IT Alignment Microsoft Press

Securing against operational interruptions and the theft of your data is much too important to leave to chance. By planning for the worst, you can ensure your organization is prepared for the unexpected. *Enterprise Architecture and Information Assurance: Developing a Secure Foundation* explains how to design complex, highly available, and secure enterprise architectures that integrate the most critical aspects of your organization's business processes. Filled with time-tested guidance, the book describes how to document and map the security policies and procedures needed to ensure cost-effective organizational and system security controls across your entire enterprise. It also demonstrates how to evaluate your network and business model to determine if they fit well together. The book's comprehensive coverage includes: Infrastructure security model components Systems security categorization Business impact analysis Risk management and mitigation Security configuration management Contingency planning Physical security The certification and accreditation process Facilitating the understanding you need to reduce and even mitigate security liabilities, the book provides sample rules of engagement, lists of NIST and FIPS references, and a sample certification statement. Coverage includes network and application vulnerability assessments, intrusion detection, penetration testing, incident response planning, risk mitigation audits/reviews, and business continuity and disaster recovery planning. Reading this book will give you the reasoning behind why security is foremost. By following the procedures it outlines, you will gain an understanding of your infrastructure and what requires further attention.

*Enterprise Architecture for Digital Business* Springer Nature

*Enterprise Architecture Planning* Developing a Blueprint for Data, Applications, and Technology QED Information Sciences

A Practical Guide to Enterprise Architecture MIT Press

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.

**A Pattern Language for Planning, Design and Execution**

*Enterprise Architecture Planning* Developing a Blueprint for Data, Applications, and Technology

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.

Enterprise Architecture A to Z IGI Global

Despite the buzz surrounding the cloud computing, only a small percentage of organizations have actually deployed this new style of IT—so far. If you're planning your long-term cloud strategy, this practical book provides insider knowledge and actionable real-world lessons regarding planning, design, operations, security, and application transformation. This book teaches business and technology managers how to transition their organization's traditional IT to cloud computing. Rather than yet another book trying to sell or convince readers on the benefits of clouds, this book provides guidance, lessons learned, and best practices on how to design, deploy, operate, and secure an enterprise cloud based on real-world experience. Author James Bond provides useful guidance and best-practice checklists based on his field experience with real customers and cloud providers. You'll view cloud services from the perspective of a consumer and as an owner/operator of an enterprise private or hybrid cloud, and learn valuable lessons from successful and less-than-successful organization use-case scenarios. This is the information every CIO needs in order to make the business and technical decisions to finally execute on their journey to cloud computing. Get updated trends and definitions in cloud computing, deployment models, and for building or buying cloud services Discover challenges in cloud operations and management not foreseen by early adopters Use real-world lessons to plan and build an enterprise private or hybrid cloud Learn how to assess, port, and migrate legacy applications to the cloud Identify security threats and vulnerabilities unique to the cloud Employ a cloud management system for your enterprise (private or multi-provider hybrid) cloud ecosystem Understand the challenges for becoming an IT service broker leveraging the power of the cloud

Reaching the Pinnacle CRC Press

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 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.

Modeling Enterprise Architecture with TOGAF Springer Science & Business Media

"This book covers both theoretical approaches and practical solutions in the processes for aligning enterprise, systems, and software architectures"--Provided by publisher.

Enterprise Architecture at Work Trafford Publishing

Two experts in enterprise architecting lay out a holistic approach to creating a blueprint for future enterprise transformation. Every enterprise evolves continuously, driven by changing needs or new opportunities. Most often this happens gradually, with small adjustments to strategy, organization, processes, or infrastructure. But sometimes enterprises need to go beyond minor fixes and transform themselves, in response to a disruptive event or dramatically changing circumstances—a merger, for example, or a new competitor. In this book, enterprise architecting experts Deborah Nightingale and Donna Rhodes offer a framework for enterprise transformation. Successful transformation, they believe, starts with a holistic approach, taking into consideration all facets of the enterprise and its environment rather than focusing solely on one factor—information technology, for example, or organizational structure. This is architecting the future enterprise: creating a blueprint for what the enterprise will look like after the transformation. Nightingale and Rhodes introduce the ARIES (Architecting Innovative Enterprise Strategy) framework, including a ten enterprise element model and an architecting process model, and show how to apply it, from start to finish. They explain how to create a holistic vision for the future enterprise and how to generate concepts and alternative architectures; they describe techniques for evaluating possible architectures, tools for implementation planning, and strategies for communicating with stakeholders. Nightingale and Rhodes offer real-world examples throughout, drawing on their work at MIT, with an extensive case study of enterprise transformation at a medical device manufacturer. An appendix offers two additional architecting projects. Seven Architecting Imperatives • Make architecting the initial activity in transformation. • Develop a comprehensive understanding of the enterprise landscape. • Understand what stakeholders value and how that may change in the future. • Use multiple perspectives to see the whole enterprise. • Create an architecting team suited to the transformation challenges. • Engage all levels of leadership in transformation. • Architect for the enterprise's changing world.

**Enterprise Architecture at Work** ASATE Publishing Inc.

This book describes a methodology for architecting, designing, and constructing an enterprise that specifies what to do, but more importantly, how to it, and why you would want to do it that way! The methodological concepts, principles, conventions, and practices presented in this book have been developed and put into practice for over 25 years; and the results are dramatic and worthy of pursuit by any enterprise.

Transit Enterprise Architecture and Planning Framework Springer Science & Business Media

Architect and deliver packaged Force.com applications that cater to enterprise business needs About This Book Explore the lightning framework, advanced application life cycle processes, and testing Use the Force.com platform to build truly integrated,

scalable, and robustly engineered applications focused on enterprise-level customer demands Using the Lightning technology to deliver modern and responsive user experiences targeting multiple devices through Lightning Experience and Salesforce1 Mobile. Step-by-step, work on examples to get you building your own ready-to-install packaged application Who This Book Is For This book is for advanced Force.com developers and architects who need to understand the Salesforce platform from the perspective of enterprise-level requirements. A prior understanding of Apex and Visualforce is a must. Those familiar with other enterprise software ecosystems will also find this book ideal as they adopt Force.com. What You Will Learn Package, install, test, and upgrade an application Define architecture-aligning data storage and functional requirements Develop Apex code that is easy to navigate, self-documenting, testable, robust, and organic Leverage your application's clientagnostic Service layer backbone to support numerous platform areas Get the most from hosting your application within the Lightning Experience and Salesforce1 Mobile clients Apply querying, indexing, and asynchronous best practices Leverage mocking and dependency injection in your Apex tests Explore tips for developing advanced applications In Detail Companies of all sizes have seen the need for Force.com's architectural strategy focused on enabling their business objectives. Successful enterprise applications require planning, commitment, and investment in the best tools, processes, and features available. This book will teach you how to architect and support enduring applications for enterprise clients with Salesforce by exploring how to identify architecture needs and design solutions based on industry standard patterns. There are several ways to build solutions on Force.com, and this book will guide you through a logical path and show you the steps and considerations required to build packaged solutions from start to finish. It covers all aspects, from engineering to getting your application into the hands of your customers, and ensuring that they get the best value possible from your Force.com application. You will get acquainted with extending tools such as Lightning App Builder, Process Builder, and Flow with your own application logic. In addition to building your own application API, you will learn the techniques required to leverage the latest Lightning technologies on desktop and mobile platforms. Style and approach The book takes a straightforward approach, taking apart the Force.com architecture for you to gain a deep understanding of how you can implement the Salesforce platform based on enterprise-level requirements.

**Aligning Enterprise, System, and Software Architectures** SK Publishing

This book shows its readers how to achieve the goal of genuine IT governance. The key here is the successful development of enterprise architecture as the necessary foundation. With its capacity to span and integrate business procedures, IT applications and IT infrastructure, enterprise architecture opens these areas up to analysis and makes them rich sources of critical data. Enterprise architecture thereby rises to the status of a crucial management information system for the CIO. The focused analysis of the architecture (its current and future states) illuminates the path to concrete IT development planning and the cost-effective and beneficial deployment of IT. Profit from the author's firsthand experience - proven approaches firmly based in enterprise reality.

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