Cobit 5 Implementation Guide

Firms with superior IT governance have more than 25% higher profits than firms with poor governance given the same strategic objectives. These top performers have custom designed IT governance for their strategies. Just as corporate governance aims to ensure quality decisions about all corporate assets, IT governance links IT decisions with company objectives and monitors performance and accountability. Based on a study of 250 enterprises worldwide, IT Governance shows how to design and implement a system of decision rights that will transform IT from an expense to a profitable investment.

Featuring numerous case examples from companies around the world, this second edition integrates theoretical advances and empirical data with practical applications, including in-depth discussion on the COBIT 5 framework which can be used to build, measure and audit enterprise governance of IT approaches. At the forefront of the field, the authors of this volume draw from years of research and advising corporate clients to present a comprehensive resource on enterprise governance of IT (EGIT). Information technology (IT) has become a crucial enabler in the support, sustainability and growth of enterprises. Given this pervasive role of IT, a specific focus on EGIT has arisen over the last two decades, as an integral part of corporate governance. Going well beyond the implementation of a superior IT infrastructure, enterprise governance of IT is about defining and embedding processes and structures throughout the organization that enable boards and business and IT people to execute their responsibilities in support of business/IT alignment and value creation from their IT-enabled investments. Featuring a variety of elements, including executive summaries and sidebars, extensive references and questions and activities (with additional materials available on-line), this book will be an essential resource for professionals, researchers and students alike

Actionable guidance and expert perspective for real-world cybersecurity The Cyber Risk Handbook is the practitioner's guide to implementing, measuring and improving the counter-cyber capabilities of the modern enterprise. The first resource of its kind, this book provides authoritative guidance for real-world situations, and cross-functional solutions for enterprise-wide improvement. Beginning with an overview of counter-cyber evolution, the discussion quickly turns practical with design and implementation guidance for the range of capabilities expected of a robust cyber risk management system that is integrated with the enterprise risk management (ERM) system. Expert contributors from around the globe weigh in on specialized topics with tools and techniques to help any type or size of organization create a robust system tailored to its needs. Chapter summaries of required capabilities are aggregated to provide a new cyber risk maturity model used to benchmark capabilities and to road-map gap-improvement. Cyber risk is a fast-growing enterprise risk, not just an IT risk. Yet seldom is guidance provided as to what this means. This book is the first to tackle in detail those enterprise-wide capabilities expected by Board, CEO and Internal Audit, of the diverse executive management functions that need to team up with the Information Security function in order to provide integrated solutions. Learn how cyber risk management can be integrated to better protect your enterprise Design and benchmark new and improved practical counter-cyber capabilities Examine planning and implementation approaches, models, methods, and more Adopt a new cyber risk maturity model tailored to your enterprise needs The need to manage cyber risk across the enterprise—inclusive of the IT operations—is a growing concern as massive data breaches make the news on an alarmingly frequent basis. With a cyber risk management system now a business-necessary requirement, practitioners need to assess the effectiveness of their current system, and measure its gap-improvement over time in response to a dynamic and fast-moving threat landscape. The Cyber Risk Handbook brings the world's best thinking to bear on aligning that system to the enterprise and vice-a-versa. Every functional head of any organization must have a copy at-hand to understand their role in achieving that alignment.

Step-by-step guide to successful implementation and control of IT systems—including the Cloud Many auditors are unfamiliar with the techniques they need to know to efficiently and effectively determine whether information systems are adequately protected. Now in a Second Edition, Auditor's Guide to IT Auditing presents an easy, practical guide for auditors that can be applied to all computing environments. Follows the approach used by the Information System Audit and Control Association's model curriculum, making this book a practical approach to IS auditing Serves as an excellent study guide for those preparing for the CISA and CISM exams Includes discussion of risk evaluation methodologies, new regulations, SOX, privacy, banking, IT governance, CobiT, outsourcing, network management, and the Cloud Includes a link to an education version of IDEA--Data Analysis Software As networks and enterprise resource planning systems bring resources together, and as increasing privacy violations threaten more organization, information systems integrity becomes more important than ever. Auditor's Guide to IT Auditing, Second Edition empowers auditors to effectively gauge the adequacy and effectiveness of information systems controls.

Attacks on information systems and applications have become more prevalent with new advances in technology. Management of security and quick threat identification have become imperative aspects of technological applications. Information Technology Risk Management and Compliance in Modern Organizations is a pivotal reference source featuring the latest scholarly research on the need for an effective chain of information management and clear principles of information technology governance. Including extensive coverage on a broad range of topics such as compliance programs, data leak prevention, and security architecture, this book is ideally designed for IT professionals, scholars, researchers, and academicians seeking current research on risk management and compliance.

The NIST Cybersecurity Framework (NCF) is the new game in town. Referred to as the Rosetta stone of security, it offers a blueprint for creating and implementing a cybersecurity program that borrows from a collection of existing frameworks, standards, and industry best practices. The framework was created to offer organizations, particularly government agencies, guidance on the key elements of a

cybersecurity program, and offer a roadmap for program maturity evaluation and compliance review. It is however still a complex matrix of options and it is not always clear how to proceed or implement. This document will offer some guidance from an implementer’s perspective. We take a closer look at the NIST Cybersecurity Framework, including all its elements and help the reader navigate through options for implementing the NCF. We present the security cube with the goal of better clarifying the relationship between various cybersecurity components. We also present the ADMI construct, a four-stage-process for implementing a cybersecurity program

This Management Guide provides readers with two benefits. First, it is a quick-reference guide to IT governance for those who are not acquainted with this field. Second, it is a high-level introduction to ISACA's open standard COBIT 5.0 that will encourage further study. This guide follows the process structure of COBIT 5.0.This guide is aimed at business and IT (service) managers, consultants, auditors and anyone interested in learning more about the possible application of IT governance standards in the IT management domain. In addition, it provides students in IT and Business Administration with a compact reference to COBIT 5.0.

The Second Edition of Auditing IT Infrastructures for Compliance provides a unique, in-depth look at recent U.S. based Information systems and IT infrastructures compliance laws in both the public and private sector. Written by industry experts, this book provides a comprehensive explanation of how to audit IT infrastructures for compliance based on the laws and the need to protect and secure business and consumer privacy data. Using examples and exercises, this book incorporates hands-on activities to prepare readers to skillfully complete IT compliance auditing.

You know by now that your company could not survive without the Internet. Not in today’s market. You are either part of the digital economy or reliant upon it. With critical information assets at risk, your company requires a state-of-the-art cybersecurity program. But how do you achieve the best possible program? Tari Schreider, in Building Effective Cybersecurity Programs: A Security Manager’s Handbook, lays out the step-by-step roadmap to follow as you build or enhance your cybersecurity program. Over 30+ years, Tari Schreider has designed and implemented cybersecurity programs throughout the world, helping hundreds of companies like yours. Building on that experience, he has created a clear roadmap that will allow the process to go more smoothly for you. Building Effective Cybersecurity Programs: A Security Manager’s Handbook is organized around the six main steps on the roadmap that will put your cybersecurity program in place: Design a Cybersecurity Program Establish a Foundation of Governance Build a Threat, Vulnerability Detection, and Intelligence Capability Build a Cyber Risk Management Capability Implement a Defense-in-Depth Strategy Apply Service Management to Cybersecurity Programs Because Schreider has researched and analyzed over 150 cybersecurity architectures, frameworks, and models, he has saved you hundreds of hours of research. He sets you up for success by talking to you directly as a friend and colleague, using practical examples. His book helps you to: Identify the proper cybersecurity program roles and responsibilities. Classify assets and identify vulnerabilities. Define an effective cybersecurity governance foundation. Evaluate the top governance frameworks and models. Automate your governance program to make it more effective. Integrate security into your application development process. Apply defense-in-depth as a multi-dimensional strategy. Implement a service management approach to implementing countermeasures. With this handbook, you can move forward confidently, trusting that Schreider is recommending the best components of a cybersecurity program for you. In addition, the book provides hundreds of citations and references allow you to dig deeper as you explore specific topics relevant to your organization or your studies.

This book includes a selection of papers from the 2018 World Conference on Information Systems and Technologies (WorldCIST'18), held in Naples, Italy on March27-29, 2018. WorldCIST is a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences and the challenges of modern information systems and technologies research together with their technological development and applications. The main topics covered are: A) Information and Knowledge Management; B) Organizational Models and Information Systems; C) Software and Systems Modeling; D) Software Systems, Architectures, Applications and Tools; E) Multimedia Systems and Applications; F) Computer Networks, Mobility and Pervasive Systems; G) Intelligent and Decision Support Systems; H) Big Data Analytics and Applications; I) Human–Computer Interaction; J) Ethics, Computers & Security; K) Health Informatics; L) Information Technologies in Education; M) Information Technologies in Radiocommunications; N) Technologies for Biomedical Applications.

This special version of COBIT serves as a starting point for enterprises in their move towards an appropriate level of control and governance of IT. This publication was developed in response to comments that COBIT, in its complete form, can be a bit overwhelming. Those who operate with a small IT staff often do not have the resources to implement all of COBIT. This subset of COBIT includes only those control objectives that are considered the most critical, so that implementation of COBIT's fundamental principles can take place easily, effectively and relatively quickly.

This book integrates theoretical advances and empirical data on Enterprise Governance in Information Technology (EGIT) with practical applications based on numerous case examples. The third revised edition of Enterprise Governance of Information Technology provides professionals and students with the most recent research advancements as well as an in-depth discussion of the recently-introduced Control Objectives for Information and Related Technologies (COBIT) 2019 framework which can be used to facilitate a tailored implementation of effective EGIT. Furthermore, the book features a new chapter which provides readers with hands-on examples from practice and clear insights on how these relate to theory. At the forefront of the field, the authors of this volume draw from years of research and advising corporate clients to present a comprehensive resource on EGIT. Featuring a variety of elements, including executive summaries and sidebars, extensive references, questions and activities and additional online materials, this book is a valuable updated resource for professionals, students and researchers alike.

This open access book explores ways to leverage information technology and machine learning to combat disease and promote health, especially in resource-constrained settings. It focuses on digital disease surveillance through the application of machine learning to non-traditional data sources. Developing countries are uniquely prone to large-scale emerging infectious disease outbreaks due to disruption of ecosystems, civil unrest, and poor healthcare infrastructure – and without comprehensive surveillance, delays in outbreak identification, resource deployment, and case management can be catastrophic. In combination with context-informed analytics, students will learn how non-traditional digital disease data sources – including news media, social media, Google Trends, and Google Street View – can fill critical knowledge gaps and help inform on-the-ground decision-making when formal surveillance systems are insufficient.

COBIT 5ImplementationISACAGovernance of Enterprise IT based on COBIT 5A Management GuideIT Governance Ltd

Written for IT service managers, consultants and other practitioners in IT governance, risk and compliance, this practical book discusses all the key concepts of COBIT®5, and explains how to direct the governance of enterprise IT (GEIT) using the COBIT®5 framework. The book also covers the main frameworks and standards supporting GEIT, discusses the ideas of enterprise and governance, and shows the path from corporate governance to the governance of enterprise IT.

Plenty of software testing books tell you how to test well; this one tells you how to do it while decreasing your testing budget. A series of essays written by some of the leading minds in software testing, How to Reduce the Cost of Software Testing provides tips, tactics, and techniques to help readers accelerate the testing process, improve the performance of the test teams, and lower costs. The distinguished team of contributors—that includes corporate test leaders, best paper authors, and keynote speakers from leading software testing conferences—supply concrete suggestions on how to find cost savings

without sacrificing outcome. Detailing strategies that testers can immediately put to use to reduce costs, the book explains how to make testing nimble, how to remove bottlenecks in the testing process, and how to locate and track defects efficiently and effectively. Written in language accessible to non-technical executives, as well as those doing the testing, the book considers the latest advances in test automation, ideology, and technology. Rather than present the perspective of one or two experts in software testing, it supplies the wide-ranging perspectives of a team of experts to help ensure your team can deliver a completed test cycle in less time, with more confidence, and reduced costs.

Create a more robust service management system using the best of ITIL®, ISO 20000-1, COBIT® and CMMI®-SVC. Although ITIL's popularity as a framework for IT service management (ITSM) continues to increase, a number of organisations have realised that its approach is sometimes not quite enough on its own. Many are already working towards compliance with ISO 20000-1 — the international standard for ITSM — but, with the likes of COBIT 5 and CMMI-SVC to consider as well, it can be difficult to determine the best route to take. Until now, there has been little guidance on how to merge these frameworks in order to produce a robust enterprise philosophy for service delivery. Pragmatic Application of Service Management – The Five Anchor Approach provides that guidance. Product overview Completely updated by service management gurus Suzanne D. Van Hove and Mark Thomas, the second edition of Pragmatic Application of Service Management – The Five Anchor Approach provides comprehensive guidance on creating an integrated system based on COBIT 5, ISO 20000, ITIL and CMMI-SVC. This practical book enables service managers to immediately adapt and deploy the guidance, and quickly improve their ITSM function. It now features a short chapter on applying the 'five anchors' approach to integrating service management frameworks in very small enterprises (VSEs), and contains four new 'caselets' (short case studies). Packed with instructive illustrations, helpful tables and the authors' very own five anchor approach, this book is ideal for anyone considering adopting, adapting or merging COBIT5, ISO/IEC 20000, ITIL and CMMI-SVC. Better ITSM through integrated best practice Written by service management gurus Suzanne D. Van Hove and Mark Thomas, Pragmatic Application of Service Management – The Five Anchors Approach presents a holistic view of service management, and provides a unique mapping to assist service management practitioners in their information gathering. Contents 1. Why This Book 2. COBIT, ISO/IEC 20000, ITIL and CMMI-SVC 3. Addressing VSEs 4. The Five Anchors 5. Caselet #1 – Governance 6. Caselet #2 – Resource Optimization 7. Caselet #3 – Risk Management 8. Caselet #4 – Achieve Business Outcomes 9. Caselet #5 – Compliance & Improvement 10. Caselet #6 - Strategic Alignment 11. Caselet #7 – Security, Compliance & Risk 12. Caselet #8 - Value-based Portfolio 13. Caselet #9 – Strategy Choice & Market Conditions 14. Caselet #10 – Plan & Use Resources Appendix A– The Map About the authors Dr Suzanne D. Van Hove owns and manages SED-IT, a small service management consulting and training company. She has worked in multiple professional verticals leading or coaching service management initiatives. She has also written and delivered accredited courseware for ITIL® and ISO/IEC 20000, as well as multiple workshops and seminars, both nationally and internationally. She is the current chair for INCITS GIT1 – the US national mirror of JTC1/SC40, the Special Committee for Service Management. She also leads the US mirror for JTC1/SC7/WG24. Dr Van Hove is an adjunct professor at Indiana University, Kelley School of Business and has served on the board of directors of itSMF USA as the knowledge management director. In recognition of her contributions to the service management community, Dr Van Hove was the 2013 recipient of the itSMF USA Lifetime Achievement Award. An opera aficionado and avid rosebush gardener, Dr Van Hove resides in Louisville, KY, USA. Mark Thomas is the founder and president of Escoute Consulting, an IT governance consultancy focusing on helping enterprises realise benefits through risk and resource optimisation. As a nationally known ITIL and COBIT expert with more than 20 years of professional experience, Mark's background spans leadership roles from data centre chief information officer (CIO) to management and IT consulting. Mark has led large teams in outsourced IT arrangements, conducted project management office (PMO), service management and governance activities for major project teams, and managed enterprise applications implementations across multiple industries. Mark has an array of industry experience in the healthcare, finance, manufacturing, services, high technology and government verticals. When he's not travelling, Mark lives with his family in the Kansas City, MO, area and claims to be a 'certified' barbeque judge in his spare time.

Create strong IT governance processes In the current business climate where a tremendous amount of importance is being given to governance, risk, and compliance (GRC), the concept of IT governance is becoming an increasingly strong component. Executive's Guide to IT Governance explains IT governance, why it is important to general, financial, and IT managers, along with tips for creating a strong governance, risk, and compliance IT systems process. Written by Robert Moeller, an authority in auditing and IT governance Practical, no-nonsense framework for identifying, planning, delivering, and supporting IT services to your business Helps you identify current strengths and weaknesses of your enterprise IT governance processes Explores how to introduce effective IT governance principles with other enterprise GRC initiatives Other titles by Robert Moeller: IT Audit, Control, and Security and Brink's Modern Internal Auditing: A Common Body of Knowledge There is strong pressure on corporations to have a good understanding of their IT systems and the controls that need to be in place to avoid such things as fraud and security violations. Executive's Guide to IT Governance gives you the tools you need to improve systems processes through IT service management, COBIT, and ITIL.

Control Objectives for Information and Related Technology (COBIT) is a framework created by ISACA for information technology (IT) management and IT governance. It is a supporting toolset that allows managers to bridge the gap between control requirements, technical issues and business risks. The COBIT 5 framework for the governance and management of enterprise IT is a leading-edge business optimization and growth roadmap that leverages proven practices, global thought leadership and ground-breaking tools to inspire IT innovation and fuel business success. This publication is directed to readers that are interested in understanding how to implement Governance Enterprise for IT (GEIT) applying the key terms, principles and tools that COBIT 5 provide. This publication also serves as a study guide for learners interested in achieving the COBIT 5 Implementation certification. This publication is a practical guide that can be used as a reference to implement GEIT based on COBIT(r).

The issues, opportunities and challenges of aligning information technology more closely with an organization and effectively governing an organization's Information Technology (IT) investments, resources, major initiatives and superior uninterrupted service is becoming a major concern of the Board and executive management in enterprises on a global basis. An integrated and comprehensive approach to the alignment, planning, execution and governance of IT and its resources has become critical to more effectively align, integrate, invest, measure, deploy, service and sustain the strategic and tactical direction and value proposition of IT in support of organizations. Much has been written and documented about the individual components of IT Governance such as strategic planning, demand (portfolio investment) management, program and project management, IT service management and delivery, strategic sourcing and outsourcing, performance management and metrics, like the balanced scorecard, compliance and others. Much less has been written about a comprehensive and integrated IT/Business Alignment, Planning, Execution and Governance approach. This new title fills that need in the marketplace and gives readers a structured and practical solutions using the best of the best principles available today. The book is divided into nine chapters, which cover the three critical pillars necessary to develop, execute and sustain a robust and effective IT governance environment - leadership and proactive people and change agents, flexible and scalable processes and enabling technology. Each of the chapters also covers one or more of the following action oriented topics: demand management and alignment (the why and what of IT – strategic planning, portfolio investment management, decision authority, etc.); execution management (includes the how - Program/Project Management, IT Service Management with IT Infrastructure Library (ITIL) and Strategic Sourcing and outsourcing); performance, risk and contingency management (e.g. includes COBIT, the balanced scorecard and other metrics and controls); and leadership, teams and people skills.

"A valuable, practical guide for navigating through ICT turbulence and dynamics. A lighthouse for the human side of ICT." Erik van de Loo, Director Executive Masters in Change, INSEAD Professor of Organisational Behaviour, INSEAD Business School "The ICT Malaise is a different and thorough point of view on the dysfunctional approach the world has taken to information and technology. In an era of exponential changes where humans are rendered obsolete at the same pace of technology, it is fundamental to go back to basics on why we lead and innovate in the first place." Silvio Rugolo, VP, Global Sales, BMC Software, Digital Service Operations We hurtle ahead with technology, apps, and the newest innovation in a world that already demands a constant online presence and availability. You are included if you quickly adapt the newest technology and excluded if you wait too long. Information and communication technology (ICT) service providers, suppliers, and customers all try to make sense and make the most money out of technology developments and constant innovation with the help of frameworks, methodologies, best-practice approaches, and models. They continuously improve, align, integrate, and optimize, but unfortunately do not apply the same drive to safeguarding quality. This book leads the reader along a path of critical thinking, reflecting, and contemplating while offering alternative ways for service providers, customers, and suppliers to interact with each other. In addition, it encourages them to conduct their business in such a way that customers, service providers, and suppliers achieve satisfaction. The author implies a different mindset, a new way of interacting and a surprising approach to the many frameworks, models, and methodologies being introduced ceaselessly. While reading this book, IT professionals receive practical guidelines for using these newfound methodologies and models to help build and maintain healthy business relations while ensuring quality delivery of products and services. Readers will be surprised by how much more satisfying and less stressful their work environment becomes!

This Management Guide provides readers with two benefits. First, it is a quick-reference guide to IT governance for those who are not acquainted with this field. Second, it is a high-level introduction to ISACA's open standard COBIT 5.0 that will encourage further study. This guide follows the process structure of COBIT 5.0. This guide is aimed at business and IT (service) managers, consultants, auditors and anyone interested in learning more about the possible application of IT governance standards in the IT management domain. In addition, it provides students in IT and Business Administration with a compact reference to COBIT 5.0.

The cost and frequency of cybersecurity incidents are on the rise, is your enterprise keeping pace? The numbers of threats, risk scenarios and vulnerabilities have grown exponentially. Cybersecurity has evolved as a new field of interest, gaining political and societal attention. Given this magnitude, the future tasks and responsibilities associated with cybersecurity will be essential to organizational survival and profitability. This publication applies the COBIT 5 framework and its component publications to transforming cybersecurity in a systemic way. First, the impacts of cybercrime and cyberwarfare on business and society are illustrated and put in context. This section shows the rise in cost and frequency of security incidents, including APT attacks and other threats with a critical impact and high intensity. Second, the transformation addresses security governance, security management and security assurance. In accordance with the lens concept within COBIT 5, these sections cover all elements of the systemic transformation and cybersecurity improvements.