

# Week 2: Developing an Information Security Management System (ISMS)

## ■ Objectives:

- Explain **why** security is a process that needs managing, and not just something that can be “bought”
- Explain the term ISMS and how it relates to information security policy
- Explain the standards an organisation can aspire towards as it develops security controls and its ISMS

# Managing Information Security A Nontechnical Management Guide

**Yi-Tong Ma**



## **Managing Information Security A Nontechnical Management Guide:**

**Managing Information Security** K. A. Wong, Kenneth Kiu Wong, Steve Watt, 1990 *Computer and Information Security Handbook* John R. Vacca, 2012-11-05 The second edition of this comprehensive handbook of computer and information security provides the most complete view of computer security and privacy available It offers in depth coverage of security theory technology and practice as they relate to established technologies as well as recent advances It explores practical solutions to many security issues Individual chapters are authored by leading experts in the field and address the immediate and long term challenges in the authors respective areas of expertise The book is organized into 10 parts comprised of 70 contributed chapters by leading experts in the areas of networking and systems security information management cyber warfare and security encryption technology privacy data storage physical security and a host of advanced security topics New to this edition are chapters on intrusion detection securing the cloud securing web apps ethical hacking cyber forensics physical security disaster recovery cyber attack deterrence and more Chapters by leaders in the field on theory and practice of computer and information security technology allowing the reader to develop a new level of technical expertise Comprehensive and up to date coverage of security issues allows the reader to remain current and fully informed from multiple viewpoints Presents methods of analysis and problem solving techniques enhancing the reader s grasp of the material and ability to implement practical solutions **Computer and Information Security Handbook (2-Volume Set)** John R. Vacca, 2024-08-28 Computer and Information Security Handbook Fourth Edition offers deep coverage of an extremely wide range of issues in computer and cybersecurity theory along with applications and best practices offering the latest insights into established and emerging technologies and advancements With new parts devoted to such current topics as Cyber Security for the Smart City and Smart Homes Cyber Security of Connected and Automated Vehicles and Future Cyber Security Trends and Directions the book now has 104 chapters in 2 Volumes written by leading experts in their fields as well as 8 updated appendices and an expanded glossary Chapters new to this edition include such timely topics as Threat Landscape and Good Practices for Internet Infrastructure Cyber Attacks Against the Grid Infrastructure Threat Landscape and Good Practices for the Smart Grid Infrastructure Energy Infrastructure Cyber Security Smart Cities Cyber Security Concerns Community Preparedness Action Groups for Smart City Cyber Security Smart City Disaster Preparedness and Resilience Cyber Security in Smart Homes Threat Landscape and Good Practices for Smart Homes and Converged Media Future Trends for Cyber Security for Smart Cities and Smart Homes Cyber Attacks and Defenses on Intelligent Connected Vehicles Cyber Security Issues in VANETs Use of AI in Cyber Security New Cyber Security Vulnerabilities and Trends Facing Aerospace and Defense Systems and much more Written by leaders in the field Comprehensive and up to date coverage of the latest security technologies issues and best practices Presents methods for analysis along with problem solving techniques for implementing practical solutions *Information System Security Guidelines for the United Nations*

*Organizations* United Nations. Advisory Committee for the Co-ordination of Information Systems,1992      **Computer and Information Security Handbook** John R. Vacca,2009-05-04 Presents information on how to analyze risks to your networks and the steps needed to select and deploy the appropriate countermeasures to reduce your exposure to physical and network threats Also imparts the skills and knowledge needed to identify and counter some fundamental security risks and requirements including Internet security threats and measures audit trails IP sniffing spoofing etc and how to implement security policies and procedures In addition this book covers security and network design with respect to particular vulnerabilities and threats It also covers risk assessment and mitigation and auditing and testing of security systems as well as application standards and technologies required to build secure VPNs configure client software and server operating systems IPsec enabled routers firewalls and SSL clients This comprehensive book will provide essential knowledge and skills needed to select design and deploy a public key infrastructure PKI to secure existing and future applications Chapters contributed by leaders in the field cover theory and practice of computer security technology allowing the reader to develop a new level of technical expertise Comprehensive and up to date coverage of security issues facilitates learning and allows the reader to remain current and fully informed from multiple viewpoints Presents methods of analysis and problem solving techniques enhancing the reader s grasp of the material and ability to implement practical solutions      **Getting Computer Jobs Abroad** Michael Powell,2016-06-06 Getting Computer Jobs Abroad provides guidelines for DP personnel contemplating on working overseas on contract or as permanent staff gives information about job opportunities and covers work opportunities for partners and other matters that could affect their decisions The book begins by giving an overview of the changing world situation and continues by providing a country by country analysis of the main countries in which job opportunities exist for DP staff or in which computer staff would like to find opportunities The next six chapters cover information about job opportunities i e whether languages are required work permits cost of living taxation housing transport etc in Europe Scandinavia the Middle East Africa Far East and Australasia and North America The pressures on one s partner looking after the welfare of the children and finally making the decision are also considered The last three chapters tackle working with agencies dealing with moving and accommodation and US taxation of overseas earnings The book concludes by providing sample questionnaire for embassies embassy addresses European computing services associations comparative pay figures and a list of agencies The text book will be invaluable to people who plan to work abroad

**Computers--crimes, Clues and Controls** ,1986      Setting Knowledge Free: The Journal of Issues in Informing Science and Information Technology Volume 5, 2008 Eli Cohen,      *Computers* ,1986      **Shared Logic** ,1990      **Proceedings, Eighth Annual Computer Security Applications Conference, San Antonio, Texas, November 30 - December 4, 1992** ,1992      **Information Technology and the Law** ,1992      Whitaker's Book List ,1991      Information Assurance Handbook: Effective Computer Security and Risk Management Strategies Corey Schou,Steven Hernandez,2014-09-12 Best

practices for protecting critical data and systems Information Assurance Handbook Effective Computer Security and Risk Management Strategies discusses the tools and techniques required to prevent detect contain correct and recover from security breaches and other information assurance failures This practical resource explains how to integrate information assurance into your enterprise planning in a non technical manner It leads you through building an IT strategy and offers an organizational approach to identifying implementing and controlling information assurance initiatives for small businesses and global enterprises alike Common threats and vulnerabilities are described and applicable controls based on risk profiles are provided Practical information assurance application examples are presented for select industries including healthcare retail and industrial control systems Chapter ending critical thinking exercises reinforce the material covered An extensive list of scholarly works and international government standards is also provided in this detailed guide Comprehensive coverage includes Basic information assurance principles and concepts Information assurance management system Current practices regulations and plans Impact of organizational structure Asset management Risk management and mitigation Human resource assurance Advantages of certification accreditation and assurance Information assurance in system development and acquisition Physical and environmental security controls Information assurance awareness training and education Access control Information security monitoring tools and methods Information assurance measurements and metrics Incident handling and computer forensics Business continuity management Backup and restoration Cloud computing and outsourcing strategies Information assurance big data concerns

*Managing Information Technology*, 1990 *The British National Bibliography* Arthur James Wells, 2009 [CISSP Certification All-in-One Exam Guide, Fourth Edition](#) Shon Harris, 2007-11-30 All in One is All You Need Fully revised for the latest exam release this authoritative volume offers thorough coverage of all the material on the Certified Information Systems Security Professional CISSP exam Written by a renowned security expert and CISSP this guide features complete details on all 10 exam domains developed by the International Information Systems Security Certification Consortium ISC2 Inside you ll find learning objectives at the beginning of each chapter exam tips practice questions and in depth explanations CISSP All in One Exam Guide Fourth Edition will not only help you pass the test but also be your essential on the job reference Covers all 10 subject areas on the exam Access control Application security Business continuity and disaster recovery planning Cryptography Information security and risk management Legal regulations compliance and investigations Operations security Physical environmental security Security architecture and design Telecommunications and network security The CD ROM features Simulated exam with practice questions and answers Video training from the author Complete electronic book

**Management Des Stratégies À Découvrir**, 2005 *The Information Management Journal*, 2003 **Healthcare Information Security and Privacy** Sean P. Murphy, 2015-01-09 Secure and protect sensitive personal patient healthcare information Written by a healthcare information security and privacy expert this definitive resource fully addresses security and privacy controls for

patient healthcare information Healthcare Information Security and Privacy introduces you to the realm of healthcare and patient health records with a complete overview of healthcare organization technology data occupations roles and third parties Learn best practices for healthcare information security and privacy with coverage of information governance risk assessment and management and incident response Written for a global audience this comprehensive guide covers U S laws and regulations as well as those within the European Union Switzerland and Canada Healthcare Information and Security and Privacy covers Healthcare industry Regulatory environment Privacy and security in healthcare Information governance Risk assessment and management

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