Security Guide for Interconnecting Information Systems: Recommendations of the National Institute of Standards and Technology

Grance, Tim

# **Security Guide For Interconnecting Information Systems**

**Patrick Vollmar** 

#### **Security Guide For Interconnecting Information Systems:**

**Security Guide for Interconnecting Information Technology Systems** Tim Grance, Joan Hash, Jonathan Smith, Karen Korow-Diks, 2012-03-11 The Security Guide for Interconnecting Information Technology Systems provides guidance for planning establishing maintaining and terminating interconnections between information technology IT systems that are owned and operated by different organizations The guidelines are consistent with the requirements specified in the Office of Management and Budget OMB Circular A 130 Appendix III for system interconnection and information sharing A system interconnection is defined as the direct connection of two or more IT systems for the purpose of sharing data and other information resources The document describes various benefits of interconnecting IT systems identifies the basic components of an interconnection identifies methods and levels of interconnectivity and discusses potential security risks associated with an interconnection The document then presents a life cycle management approach for interconnecting IT systems with an emphasis on security The four phases of the interconnection life cycle are addressed 1 Planning the interconnection the participating organizations perform preliminary activities examine all relevant technical security and administrative issues and form an agreement governing the management operation and use of the interconnection 2 Establishing the interconnection the organizations develop and execute a plan for establishing the interconnection including implementing or configuring appropriate security controls 3 Maintaining the interconnection the organizations actively maintain the interconnection after it is established to ensure that it operates properly and securely 4 Disconnecting the interconnection one or both organizations may choose to terminate the interconnection. The termination should be conducted in a planned manner to avoid disrupting the other party's system In response to an emergency however one or both organizations may decide to terminate the interconnection immediately The document provides recommended steps for completing each phase emphasizing security measures that should be taken to protect the connected systems and shared data The document also contains guides and samples for developing an Interconnection Security Agreement ISA and a Memorandum of Understanding Agreement MOU A The ISA specifies the technical and security requirements of the interconnection and the MOU A defines the responsibilities of the participating organizations Finally the document contains a guide for developing a System Interconnection Implementation Plan which defines the process for establishing the interconnection including scheduling and costs Security Guide for Interconnecting Information Systems: Recommendations of the National Institute of Standards and Technology Tim Grance, 2002 The Security Guide for Interconnecting Information Technology Systems provides guidance for planning establishing maintaining and terminating interconnections between information technology IT systems that are owned and operated by different organizations The guidelines are consistent with the requirements specified in the Office of Management and Budget OMB Circular A 130 Appendix III for system interconnection and information sharing A system interconnection is defined as the direct connection

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Contingency Planning Guide for Federal Information Systems Marianne Swanson, 2011 This is a print on demand edition of a hard to find publication This guide provides instructions recommendations and considerations for federal information system contingency planning Contingency planning refers to interim measures to recover information system services after a disruption Interim measures may include relocation of information systems and operations to an alternate site recovery of information system functions using alternate equipment or performance of information system functions using manual methods This guide addresses specific contingency planning recommendations for three platform types and provides strategies and techniques common to all systems Client server systems Telecomm systems and Mainframe systems Charts **Information Security** Matthew Scholl,2009-09 Some fed agencies in addition to being subject to the Fed and tables Information Security Mgmt Act of 2002 are also subject to similar requirements of the Health Insurance Portability and Accountability Act of 1996 HIPAA Security Rule The HIPAA Security Rule specifically focuses on the safeguarding of electronic protected health information EPHI The EPHI that a covered entity creates receives maintains or transmits must be protected against reasonably anticipated threats hazards and impermissible uses and or disclosures This publication discusses security considerations and resources that may provide value when implementing the requirements of the HIPAA Security Rule Illustrations Security Controls Evaluation, Testing, and Assessment Handbook Leighton Johnson, 2019-11-21 Security Controls Evaluation Testing and Assessment Handbook Second Edition provides a current and well developed approach to evaluate and test IT security controls to prove they are functioning correctly This handbook discusses the world of threats and potential breach actions surrounding all industries and systems Sections cover how to take FISMA NIST Guidance and DOD actions while also providing a detailed hands on guide to performing assessment events for information security professionals in US federal agencies This handbook uses the DOD Knowledge Service and the NIST Families assessment guides as the basis for needs assessment requirements and evaluation efforts Provides direction on how to use SP800 53A SP800 115 DOD Knowledge Service and the NIST Families assessment guides to implement thorough evaluation efforts Shows readers how to implement proper evaluation testing assessment procedures and methodologies with step by step walkthroughs of all key concepts Presents assessment techniques for each type of control provides evidence of assessment and includes proper reporting techniques **Risk Management Framework** James Broad, 2013-07-03 The RMF allows an organization to develop an organization wide risk framework that reduces the resources required to authorize

a systems operation Use of the RMF will help organizations maintain compliance with not only FISMA and OMB requirements but can also be tailored to meet other compliance requirements such as Payment Card Industry PCI or Sarbanes Oxley SOX With the publishing of NIST SP 800 37 in 2010 and the move of the Intelligence Community and Department of Defense to modified versions of this process clear implementation guidance is needed to help individuals correctly implement this process No other publication covers this topic in the detail provided in this book or provides hands on exercises that will enforce the topics Examples in the book follow a fictitious organization through the RMF allowing the reader to follow the development of proper compliance measures Templates provided in the book allow readers to quickly implement the RMF in their organization The need for this book continues to expand as government and non governmental organizations build their security programs around the RMF The companion website provides access to all of the documents templates and examples needed to not only understand the RMF but also implement this process in the reader s own organization A comprehensive case study from initiation to decommission and disposal Detailed explanations of the complete RMF process and its linkage to the SDLC Hands on exercises to reinforce topics Complete linkage of the RMF to all applicable laws regulations and publications as never seen before **Federal Information System Controls Audit** Manual (FISCAM) Robert F. Dacey, 2010-11 FISCAM presents a methodology for performing info system IS control audits of governmental entities in accordance with professional standards FISCAM is designed to be used on financial and performance audits and attestation engagements The methodology in the FISCAM incorp the following 1 A top down risk based approach that considers materiality and significance in determining audit procedures 2 Evaluation of entitywide controls and their effect on audit risk 3 Evaluation of general controls and their pervasive impact on bus process controls 4 Evaluation of security mgmt at all levels 5 Control hierarchy to evaluate IS control weaknesses 6 Groupings of control categories consistent with the nature of the risk Illus FISMA and the Risk Management Framework Daniel R. Philpott, Stephen D. Gantz, 2012-12-31 FISMA and the Risk Management Framework The New Practice of Federal Cyber Security deals with the Federal Information Security Management Act FISMA a law that provides the framework for securing information systems and managing risk associated with information resources in federal government agencies Comprised of 17 chapters the book explains the FISMA legislation and its provisions strengths and limitations as well as the expectations and obligations of federal agencies subject to FISMA It also discusses the processes and activities necessary to implement effective information security management following the passage of FISMA and it describes the National Institute of Standards and Technology's Risk Management Framework The book looks at how information assurance risk management and information systems security is practiced in federal government agencies the three primary documents that make up the security authorization package system security plan security assessment report and plan of action and milestones and federal information security management requirements and initiatives not explicitly covered by FISMA This book will be helpful to

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