

# **RECOMMENDED SECURITY CONTROLS FOR**

**FEDERAL INFORMATION SYSTEMS AND ORGANIZATIONS**

INFORMATION SECURITY

August 2009



U.S. Department of Commerce  
*Carlos M. Gutierrez, Secretary*

National Institute of Standards and Technology  
*James M. Turner, Deputy Director*

# Recommended Security Controls For Federal Information Systems

**Ron Ross**



## **Recommended Security Controls For Federal Information Systems:**

*Recommended Security Controls for Federal Information Systems and Organizations* Joint Task Force Transformation Initiative, 2009 The objective of NIST SP 800 53 is to provide a set of security controls that can satisfy the breadth and depth of security requirements levied on information systems and organizations and that is consistent with and complementary to other established information security standards Revision 3 is the first major update since December 2005 and includes significant improvements to the security control catalog

**NIST Special Publication 800-53 Revision 3 Recommended Security Controls for Federal Information Systems and Organizations** Nist, 2012-02-22 NIST Special Publication 800 53 Revision 3 Recommended Security Controls for Federal Information Systems and Organizations Guide for Applying the Risk Management Framework to Federal Information Systems is prepared by The National Institute of Standards and Technology The purpose of this publication is to provide guidelines for selecting and specifying security controls for information systems supporting the executive agencies of the federal government to meet the requirements of FIPS 200 Minimum Security Requirements for Federal Information and Information Systems The guidelines apply to all components<sup>11</sup> of an information system that process store or transmit federal information The guidelines have been developed to help achieve more secure information systems and effective risk management within the federal government by Facilitating a more consistent comparable and repeatable approach for selecting and specifying security controls for information systems and organizations Providing a recommendation for minimum security controls for information systems categorized in accordance with FIPS 199 Standards for Security Categorization of Federal Information and Information Systems Providing a stable yet flexible catalog of security controls for information systems and organizations to meet current organizational protection needs and the demands of future protection needs based on changing requirements and technologies Creating a foundation for the development of assessment methods and procedures for determining security control effectiveness and Improving communication among organizations by providing a common lexicon that supports discussion of risk management concepts The guidelines in this special publication are applicable to all federal information systems other than those systems designated as national security systems as defined in 44 U S C Section 3542 The guidelines have been broadly developed from a technical perspective to complement similar guidelines for national security systems and may be used for such systems with the approval of appropriate federal officials exercising policy authority over such systems<sup>13</sup> State local and tribal governments as well as private sector organizations are encouraged to consider using these guidelines as appropriate

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**Recommended Security Controls for Federal Information Systems and Organizations (NIST SP 800-53, Revision 3 [including Updates As Of 5/1/2010])**

nist,2014-01-08 Superseded by NIST SP 800 53 Rev 4 April 2013 [http://www.nist.gov/manuscript-publication-search/cfm/pub\\_id/913693](http://www.nist.gov/manuscript-publication-search/cfm/pub_id/913693) The objective of NIST SP 800 53 is to provide a set of security controls that can satisfy the breadth and depth of security requirements levied on information systems and organizations and that is consistent with and complementary to other established information security standards Revision 3 is the first major update since December 2005 and includes significant improvements to the security control catalog Supersedes NIST SP 800 53 Rev 2 December 2007 [http://www.nist.gov/manuscript-publication-search/cfm/pub\\_id/51351](http://www.nist.gov/manuscript-publication-search/cfm/pub_id/51351) Recommended Security Controls for Federal Information Systems and Organizations,2006 This publication revises NIST SP 800 53 Revision 1 by adding specific guidance on the application of security controls to Industrial Control Systems ICS That ICS specific guidance is contained in Appendix I and addresses the following Tailoring guidance Security control enhancements Supplements to the security control baselines and Supplemental guidance **Recommended Security Controls for Federal Information Systems** Ron Ross,2006 Recommended Security Controls for Federal Information Systems and Organizations National Institute of Standards and Technology,2014-02-19 This publication has been developed by NIST to further its statutory responsibilities under the Federal Information Security Management Act FISMA Public Law P L 107 347 NIST is responsible for developing information security standards and guidelines including minimum requirements for federal information systems but such standards and guidelines shall not apply to national security systems without the express approval of appropriate federal officials exercising policy authority over such systems This guideline is consistent with the requirements of the Office of Management and Budget OMB Circular A 130 Section 8b 3 Securing Agency Information Systems as analyzed in Circular A 130 Appendix IV Analysis of Key Sections Supplemental information is provided in Circular A 130 Appendix III **Recommended Security Controls for Federal Information Systems**,2006 **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 security officers risk managers system owners IT managers contractors consultants service providers and others involved in

securing managing or overseeing federal information systems as well as the mission functions and business processes supported by those systems Learn how to build a robust near real time risk management system and comply with FISMA Discover the changes to FISMA compliance and beyond Gain your systems the authorization they need *NIST Special Publication 800-53A Guide for Assessing the Security Controls in Federal Information Systems and Organizations* Nist,2012-02-22 This is a Hard copy of the NIST Special Publication 800 53A Revision 1 Guide for Assessing the Security Controls in Federal Information Systems and Organizations The guidelines apply to the security controls defined in Special Publication 800 53 as amended Recommended Security Controls for Federal Information Systems and Organizations You need to get the SP 800 53 to effectively use this document The purpose of this publication is to provide guidelines for building effective security assessment plans and a comprehensive set of procedures for assessing the effectiveness of security controls employed in information systems supporting the executive agencies of the federal government The guidelines have been developed to help achieve more secure information systems within the federal government by Enabling more consistent comparable and repeatable assessments of security controls withreproducible results Facilitating more cost effective assessments of security controls contributing to thedetermination of overall control effectiveness Promoting a better understanding of the risks to organizational operations organizationalassets individuals other organizations and the Nation resulting from the operation and useof federal information systems andCreating more complete reliable and trustworthy information for organizational officials tosupport risk management decisions reciprocity of assessment results information sharing and FISMA complianceDisclaimer This hardcopy is not published by National Institute of Standards and Technology NIST the US Government or US Department of Commerce The publication of this document should not in any way imply any relationship or affiliation to the above named organizations and Government Recommended security controls for federal information systems and organizations United States. Joint Task Force Transformation Initiative,2009 **Nist Special Publication 800-53 Information Security** National Institute of Standards and Technology,2011-04-20 NIST Special Publication 800 53 Recommended Security Controls for Federal Information Systems and Organizations and catalogs security controls for all U S federal information systems except those related to national security It is published by the National Institute of Standards and Technology which is a non regulatory agency of the United States Department of Commerce NIST develops and issues standards guidelines and other publications to assist federal agencies in implementing the Federal Information Security Management Act of 2002 FISMA and to help with managing cost effective programs to protect their information and information systems **Minimum Security Requirements for Federal Information and Information Systems** ,2009-05 The E Government Act passed by the 107th Congress and signed into law by the Pres in Dec 2002 recognized the importance of info security to the economic and nat security interests of the U S Title III of the Act entitled the Fed Info Security Mgmt Act FISMA emphasizes the need for each fed agency to develop document and

implement an enterprise wide program to provide info security for the info systems that support the operations of the agency FISMA directed the promulgation of fed standards for 1 the security categorization of fed info and info systems based on the objectives of providing appropriate levels of info security and 2 minimum security requirements for info and info systems in each such category Recommended Security Controls for Federal Information Systems and Organizations Joint Task Force Transformation Initiative,2009 The objective of NIST SP 800 53 is to provide a set of security controls that can satisfy the breadth and depth of security requirements levied on information systems and organizations and that is consistent with and complementary to other established information security standards Revision 3 is the first major update since December 2005 and includes significant improvements to the security control catalog **Complete Guide to Security and Privacy Metrics** Debra S. Herrmann,2007-01-22 This book defines more than 900 metrics measuring compliance with current legislation resiliency of security controls and return on investment It explains what needs to be measured why and how to measure it and how to tie security and privacy metrics to business goals and objectives The metrics are scaled by information sensitivity asset criticality and risk aligned to correspond with different lateral and hierarchical functions designed with flexible measurement boundaries and can be implemented individually or in combination The text includes numerous examples and sample reports and stresses a complete assessment by evaluating physical personnel IT and operational security controls *FISMA Principles and Best Practices* Patrick D. Howard,2016-04-19 While many agencies struggle to comply with Federal Information Security Management Act FISMA regulations those that have embraced its requirements have found that their comprehensive and flexible nature provides a sound security risk management framework for the implementation of essential system security controls Detailing a proven approach *Recommended Security Controls for Federal Information Systems and Organizations* Ronald S. Ross,2009 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

**Handbook of SCADA/Control Systems Security** Robert Radvanovsky,Jacob Brodsky,2013-02-19 The availability and

security of many services we rely upon including water treatment electricity healthcare transportation and financial transactions are routinely put at risk by cyber threats The Handbook of SCADA Control Systems Security is a fundamental outline of security concepts methodologies and relevant information pertaining to the supervisory control and data acquisition SCADA systems and technology that quietly operate in the background of critical utility and industrial facilities worldwide Divided into five sections the book examines topics comprising functions within and throughout industrial control systems ICS environments Topics include Emerging trends and threat factors that plague the ICS security community Risk methodologies and principles that can be applied to safeguard and secure an automated operation Methods for determining events leading to a cyber incident and methods for restoring and mitigating issues including the importance of critical communications The necessity and reasoning behind implementing a governance or compliance program A strategic roadmap for the development of a secured SCADA control systems environment with examples Relevant issues concerning the maintenance patching and physical localities of ICS equipment How to conduct training exercises for SCADA control systems The final chapters outline the data relied upon for accurate processing discusses emerging issues with data overload and provides insight into the possible future direction of ISC security The book supplies crucial information for securing industrial automation process control systems as part of a critical infrastructure protection program The content has global applications for securing essential governmental and economic systems that have evolved into present day security nightmares The authors present a best practices approach to securing business management environments at the strategic tactical and operational levels

IT Audit, Control, and Security Robert R. Moeller, 2010-10-12 When it comes to computer security the role of auditors today has never been more crucial Auditors must ensure that all computers in particular those dealing with e business are secure The only source for information on the combined areas of computer audit control and security the IT Audit Control and Security describes the types of internal controls security and integrity procedures that management must build into its automated systems This very timely book provides auditors with the guidance they need to ensure that their systems are secure from both internal and external threats

Handbook of SCADA/Control Systems Security Burt G. Look, 2016-05-10 This comprehensive handbook covers fundamental security concepts methodologies and relevant information pertaining to supervisory control and data acquisition SCADA and other industrial control systems used in utility and industrial facilities worldwide Including six new chapters six revised chapters and numerous additional figures photos and illustrations it addresses topics in social implications and impacts governance and management architecture and modeling and commissioning and operations It presents best practices as well as methods for securing a business environment at the strategic tactical and operational levels

Recommended Security Controls For Federal Information Systems: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Recommended Security Controls For Federal Information Systems : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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