



IG PCIE Panel on FISMA Information Security and Privacy Advisory Board

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Has Commerce Enhanced Security Under FISMA?

- Information Security Is Improving Under FISMA.
 - Our initial independent evaluations found numerous problems:
 - Historically, senior management has given information security little attention and support.
 - Because of this neglect, IT security weaknesses were pervasive and placed sensitive systems at serious risk.

Has Commerce Enhanced Security Under FISMA?

- Initial evaluations found
 - Security plans failed to provide foundation for security control assessment.
 - Security control assessments did little more than scan for vulnerabilities.
 - Few systems received continuous monitoring.
 - Protection of government information in contracts received little attention.

Has Commerce Enhanced Security Under FISMA?

■ Since FISMA

- Senior management gives greater attention to information security.

- Improvements have followed:

- Department-wide information security policy and program.
- Bureau security programs, practices, and controls.
- Information security in contracts.
- System certification and accreditation.

■ Yet much remains to be done to establish a repeatable process for ensuring an adequate, consistent information security program throughout the Department.

Is C&A Just a Paperwork Exercise?



Is C&A Just a Paperwork Exercise?

- C&A is essential for effective information security, and if done correctly, it
 - Helps ensure system security controls are appropriate and working as intended.
 - Better enables senior management officials to spend IT security dollars on highest priority needs.
- Commerce continues to improve its C&A, but needs to significantly enhance security control assessments.

Systems are certified and accredited
though many controls are not assessed . . .

Extract from Finding on Adequacy of Security Control Assessment From Recent OIG C&A Review

	Function	Application Server	DB Server	Domain Controller	Mail	Application Server	Workstations	Application 1	Oracle DB	Router	Firewall
	Operating System	NT	UNIX	W2K	W2K	Linux	XP/W2K				
	Control Name										
AC-2	Account Management			X					X		
AC-3	Access Enforcement				X						
AC-5	Separation of Duties				X		X				
AC-7	Unsuccessful Logon Attempt			X							
AC-8	System Use Notification						X		X		
AC-11	Session Lock						X				
AC-12	Session Termination			X							
AC-17	Remote Access										
AC-19	Access Ctl-Mobile Sys										
IA-2	User ID & Auth				X						
IA-3	Device ID & Auth										
IA-4	Identifier Management								X		
IA-5	Authenticator Management			X					X		
CM-6	Configuration Settings										
RA-5	Vulnerability Scanning	X	X	X			X				X

Control assessment performed

Potentially required control assessment step was not implemented

Control assessment not applicable

How Do We Approach FISMA Reviews?

- We assign them to highly skilled technical staff.
 - Educational backgrounds and professional experience in computer science and information security.
 - Certifications:
 - Certified Information Systems Security Professional (CISSP)
 - Certification and Accreditation Professional (CAP)
 - Certified Ethical Hacker (CEH)
 - NSA INFOSEC Assessment Methodology (IAM)
 - NSA INFOSEC Evaluation Methodology (IEM)
 - Certified Information Security Manager (CISM)
- We follow PCIE Quality Standards for Inspections.

How Do We Approach FISMA Reviews?

- Our criteria are
 - NIST standards and guidance.
 - OMB guidance.
 - Department of Commerce IT security policy.
- Our focus has been on
 - C&A, especially quality and completeness of security control assessments.
 - Does authorizing official have enough information about remaining vulnerabilities?
 - Secure configuration settings (CM-6).
 - Continuous monitoring.

How Well Does Commerce Follow NIST Standards and Guidance?

- Users continue to wrestle with application of the standards.
- All parties would benefit from a better understanding of NIST framework and associated standards and guidance.
 - Authorizing officials, system owners, certification agents, information security officers, and C&A support contractors.
- Commerce CIO's office has been providing training.
- It would be helpful for NIST to develop examples of required C&A documents.
 - Security plans, risk assessments, security control assessment plans and assessment results.

Is Senior Management On Board With FISMA?

- FISMA is supported by senior management of Department as well as senior bureau management.
- However, authorizing officials and system owners often appear to not understand or accept their responsibilities.

What Progress Has Your Agency Made in Protecting Citizens' Privacy?

- Revising policy to better address privacy requirements.
- Using 30-minute "time-out" policy.
- Encrypting data on mobile devices.
- Preparing solicitation for two-factor authentication.
- Reporting incidents to DHS within one hour.