

DEPARTMENT OF THE NAVYCHIEF INFORMATION OFFICER



Synergistic Efforts Between Financial Audit and Cyber Security

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Orlando, FL National PDI

Recent Cybersecurity Headlines

JUN 11, 2015 @ 09:12 PM 16.4



MedStar disputes report it ignored warnings that led to attack

NSA is always looking for interesting ways to gain access, whether it be through an HVAC system – which was the cause of the massive Target breach of 2014

Attackers gained valid user credentials to the systems they were attacking. The breach also consisted of a malware package which installed itself within OPM's network and established a backdoor.

NSA's chief hacker explains how to keep the NSA out of your business

TECH ENTERTAINMENT SOCIAL LIFESTYLE BUSINESS DEALS

Federal Union Says OPM Data Breach Hit Every Single Federal Employee

Recent DoD Audit Headlines



Senators move to demand DOD RealClear Politics audit penalties



By Martin Matishak - 02/04/15 03:16 PM EST

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Bernie Sanders: Audit The Department Of Defense, Contractors Wasting Money While Soldiers Are On Food Stamps

Posted on December 29, 2015

USMC Reversal a Hitch in DoD Audit Plans

By Joe Gould and Hope Hodge Seck

5:27 p.m. EDT March 30, 2015

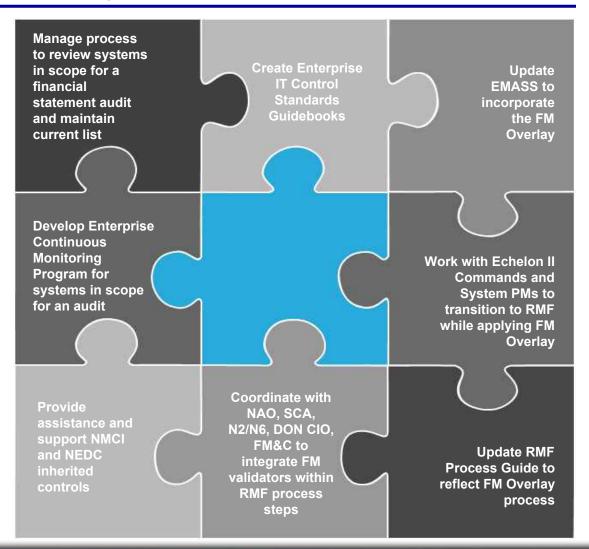
THE BLOG

Uncontrollable — Pentagon and Corporate Contractors Too Big to Audit

93/18/2016 12:27 pm ET | Updated Mar 18, 2016

DON Approach to Merging Audit and Cybersecurity Requirements

ASN FM&C and DON CIO are collaborating and working closely on separate, but related mission objectives to find synergies and gain efficiencies in previously redundant activities



Synchronization of Cyber and Audit Activities

As-Is State DIACAP & FISCAM

DIACAP

- Technically Focused
- Cyber Security
 Compliance to
 obtain Authority
 to Operate (ATO)
- Management has the option to accept the risk associated with a control failure

FISCAM

- Business Process
 Driven
- Assessments for DON financial information systems
- Enables auditors to place reliance on the quality of the data within the system
- Relies on NIST SP 800-53 Rev. 4

To-Be State RMF

- Technically Focused Hybrid Approach
- Streamlining multiple compliance requirements for System Owners
- Standardizing the DON's risk mitigation approach for financially relevant IT systems
- FMO and DON CIO collaboration to issue DON IT Controls Guidance for audit relevant systems
- Leveraging the multi-year FISCAM efforts to synchronize RMF and IT control requirements related to on-going audits

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Enterprise IT
Control Standards

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RMF Joint Memo

Timeline of Events: Years in the Making

2012 > 2013 > 2014 > 2015 > 2016

Joint Memorandum

 Assessment of Information Technology Systems That Enable and Sustain Audit Readiness (Q4 2012)

Joint Memorandum

 Developing More Stringent Security Control Requirements for Financially Relevant Systems to Support Audit Readiness (Q1 2014)

Joint Memorandum

 Information Technology Controls Self-Assessment of Financially Relevant Information Systems (Q3 2014)

m Joint Memorandum

- Auditability of Financial Information Technology Systems and Transition to Risk Management Framework (Q3 2015)
- Audit Readiness and Risk Management Framework Implementation, (Q4 2015)
- Established enterprise level IT standards that meet audit readiness requirements (Pending, at ASN level)

Ideal End State

- Leverage current FISCAM assessment teams to begin utilizing IT Control Standards (Q2 2016)
- Provide Formal training/ implementation plan for IT Controls Standards (Q3 2016)
- EMASS system changes to accommodate FM overlay (Q2 2016)
- Separate validator workflow to validate FM overlay
- Validator will come from FMP; Will act similar to "internal IT audit" function
- Automate auditor workflow ability of auditor to pull necessary documentation themselves w/o need for PBC

Collaboration/ Outreach

on status and updates on Enterprise IT Controls Standards

- Financial Information Systems
 Working Group (FISWG) governance
 forum
- · CFO/ CIO Community Touchpoint
- Embedded in FLTCYBERCOM RMF training; provide overview on Enterprise IT Controls Standards
- RMF TAG









DON Enterprise IT Control Standards Guidebooks

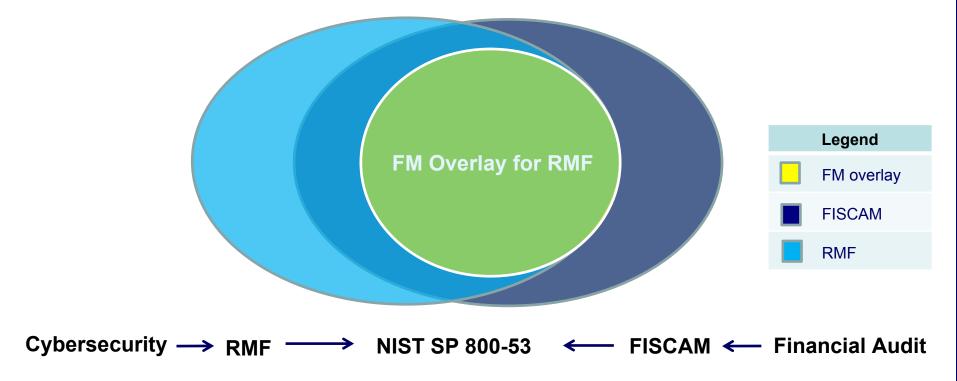
- Eighteen Guidebooks created for each NIST SP 800-53 control family
- Guidance written in holistic manner to relate each NIST control to a FISCAM control objective
- The guidance will become the IT Control Standards that systems in scope for audit are required to follow
- The DON Enterprise IT Controls Guidance will also become the DON FM Overlay for RMF



Controls Guidance Number	IT Controls Guidance for RA-2 Security Categorization	FISCAM Control Objective	Evidence	Frequencies
RA22	System Owners shall document the categorization of information systems in accordance with a state of 195. 199, and document the results in the system security plan. The security plan shall include: • Identification of primary mission or business functions, • Prioritization of obtain and operations, • Requirements for Senior Program Manauger approval of the listing of critical operations and data; and • The reflection of current conditions including hystem interdependencies and technologies. System Owners shall perform an annual review over the information system categorization or when a significant change occurs to the operating environment, Additionally, stakeholders and management shall approve the information system categorization and provide their approval via documented significant change occurs to the operating environment, distinction 1933. Security Geregorization and provide their approval via documented significant security Systems (CNSS) instruction 1933. Security Categorization and change for security categorization and change for security categorization and change for the security Categorization requirements.	CP/1	1. System Categorization rating including the date that it was established and approved and the names of the names of the rating 2. Evidence of annual review of the system categorization rating for each system.	Arrusi

The DON Enterprise IT Controls Guidance enhances and supplements the NIST SP 800-53 Rev.4 security controls based on Financial Statement Auditor best practices.

Overlap Between Financial Audit and Cybersecurity



To support transition to RMF of financial systems, apply the FM Overlay (critical security controls for a financial audit) to manage and implement controls once to satisfy both cybersecurity and financial audit requirements

Navy Methodology for Integration of RMF and Financial Management (FM) Overlay

STEP 1 STEP 2 STEP 3 STEP 4 STEP 5 STEP 6 **CATEGORIZE SELECT IMPLEMENT ASSESS AUTHORIZE MONITOR** Security Systems Security Security Information Security Controls Controls Controls **Systems** Controls · Identify FM System · Implement tailored Program assemble Determine impact of Select baseline · Assess tailored RMF Package Confidentiality control set and control sets control set changes to system Integrity Availability applicable overlays Prepare the POAM SCA writes Security and environment Program / Echelon II Assessment Report (C-I-A) (e.g. FM for audit with Navy & assess security submit RMF package Remediate Categorize system relevant systems) architecture controls annually for FM Endorsement preliminary findings to CNSSI 1253 and · AO reviews security memo NIST 800-53 rev4 status System **Authorizing Official** decommissioning (AO) Authorize System FM Validator Team **Process FM Validator Team FM Validator Team** FM Validator Team FM Validator Team **FM Validator Team** to play consulting to play consulting to play consulting works in conjunction leverages system provides role, as necessary with cyber validator role, as necessary role, as necessary endorsement memo continuous to validate security monitoring strategy Overlay controls for enterprise internal audit function Σ

FM Overlay and RMF Key Takeaways

FM Overlay controls include the AC, AU, CM, and IA controls that map to FISCAM objectives and all Policy and Procedure (-1) controls

FM overlay provides new validation procedures that contain FISCAM style of validation

RMF Steps 1-3

- FMP team acts as support/ consulting team
- Artifacts that are responsibility of SCA, FMP provides input on FM overlay controls

RMF Step 4

- FM Validator is a separate team from FMP that validate FM overlay controls
- SCA relies on results of validation from FM validators to eliminate redundancy

RMF Step 5

 FMP to provide endorsement memo to NAO prior to final authorization

Overall intent is to ensure systems are in scope for an audit, implement controls critical to an audit. integrate with RMF process and adapt existing requirement.

Success Factors

Effective Communication

- Inter and Intra Echelon communications
- Ensure all stakeholders are engaged and represented

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Building intellectual capital within DON/DoD

- Audit and RMF are new competencies to the DoD environment
- Knowledge sharing is critical in to building foundation of IC

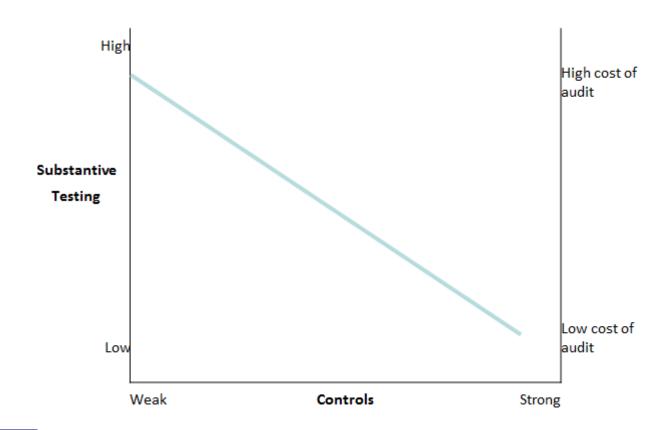
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Ability to adapt quickly to changing environment

- Changing requirements/ Unfunded requirements
- Everything is a high priority
- Budget constraints
- System consolidations

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Why do we care?



Auditor can gain reasonable assurance anywhere on that line, Where do you think DoD should be?

Questions?