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# Balancing Compliance and Operational Security Demands



#### **Steve Winterfeld**

Bank Information Security Officer CISSP, PCIP





# What is more important?

- Compliance with laws / regulations
- Following industry best practices
- Developing a operational practice

The most important issue is getting the senior leadership to support your vision



# Fire Marshal vs Firefighters





#### Federal - Government Focused

- Federal Information Security Management Act (FISMA) [Law]
- ▶ DoD Information Assurance Certification and Accreditation Process (DIACAP)
- ▶ Intelligence Community Directive (ICD) 503 [IC cyber]
- ► Federal Risk and Authorization Management Program (FedRAMP) [Cloud]
- ► North American Electric Reliability Corporation (NERC) [FERC Energy]
- General Services Administration (GSA) / Office of Management and Budget (OMB)
- ► National Institute of Standards and Technology (NIST)

#### Federal - Commercial Focused

- Medical
  - Health Insurance Portability and Accountability Act (HIPAA)
- Business
  - Payment Card Industry (PCI) [credit cards]
  - Gramm Leach Bliley Act (GLBA) [financial institutions]
  - Sarbanes Oxley Act (SOX) [public companies]
  - Statement on Standards for Attestation Engagements (SSAE) 16
  - Executive Order on Cybersecurity / Presidential Policy Directive on
     Critical Infrastructure Security and Resilience [risk framework]

#### **Motivations**













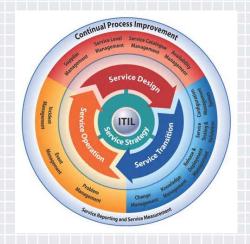


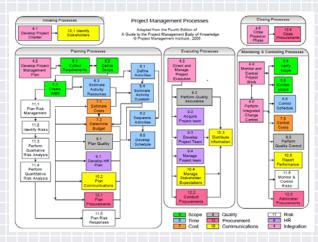
#### Standards - Policies / Process / Audit

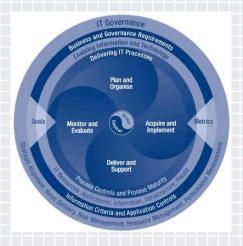
- International Organization for Standardization (ISO)
- Control Objectives for Information and related Technology (COBIT) by ISACA
- Factor Analysis of Information Risk (FAIR)
- Operationally Critical Threat, Asset, and Vulnerability Evaluation (OCTAVE) by CMU CERT
- ADversary View Security Evaluation (ADVISE) by CMU CyLab
- ► IT Infrastructure Library (ITIL) [IT focused, light on security]
- ➤ Six Sigma [cost efficiencies]
- Capability Maturity Model Integration (CMMI) [process]

#### **Techniques**









#### **Key Components of a Program**

- Programmatics
  - Strategy (Business, IT and Security)
  - Threat profile
  - Risk profile
  - Special req like 10K cyber statements
  - Metrics / Visualization

#### **Program Drivers**

- Impacts analysis
  - Loss of Intellectual Property (IP)
  - Loss to brand reputation
  - Legal (fines / law suits)
- Impact of Legislation
  - New reg or laws like PCI 3.0, NERC CIP 5 or NIST Security Framework

#### **Management Drivers**

- Organizational structure
  - Review effectiveness and efficiencies of Information
     Security Organization Policies and Procedures
  - Security monitoring and incident response plan
  - Investigations (forensics and e-discovery)
  - Business Continuity Plan / Disaster Recovery Plan
  - For companies developing software software assurance process and tools

#### **Leadership Drivers**

- Organization issues
  - Relationship between compliance, audit, privacy, fraud, security (physical and cyber) and business needs
  - Culture of the organization
  - Vulnerability Assessment & Penetration Test program
  - Access management program
  - Mobile device protection program
  - Social Media management program
  - Supply line issues identification

## Who we are talking to determines what we talk about















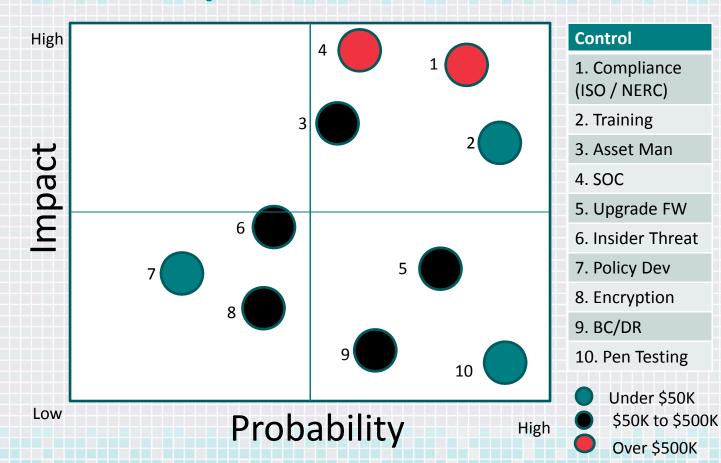
## Tying it together

#RSAC

- Risk Radar / Register
  - Risk Control based
- Talk to resources and impacts

# Ensure leadership is equipped to make decisions about accepting risk

# Sample Risk Radar



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#### What's next

- Your job is to make sure leadership understands the risks and are equipped to make decision on where to accept it
- Build consensus on criteria, definition, impact ranking and visualization of risk
- Implement a plan based on return on impact of risk mitigation



## How to get more info

- Start with NIST <a href="http://nist.gov/cyberframework/index.cfm">http://nist.gov/cyberframework/index.cfm</a>
   (specifically the 800 series covers both risk and implementation)
- MITRE and CMU have both done great work on metrics to use to develop your radar
- For risk radar here are key terms for different techniques: heat map, spider chart and quad chart, framework, scorecard and dashboard

# **Questions**





Steve Winterfeld spwinterfeld@gmail.com

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