











# Here for all your questions

ENTERPRISE RISK MANAGEMENT AUDIT REGULATORY COMPLIANCE INDEPENDENT CREDIT REVIEW CYBERSECURITY NETWORK MONITORING SERVER VIRTUALIZATION DATA NETWORKING

# **Todays Objectives**

- Exploring the critical role of Cybersecurity Supply Chain Risk Management (C-SCRM)
- Importance of C-CSRM in maintaining secure network infrastructure
- Strategies for identifying vulnerabilities within the supply chain
- Best practices for remediating supply chain vulnerabilities
- Enhancing overall security through supply chain risk management
- Ongoing cybersecurity requirements for E-ACAM funding





Cybersecurity Supply Chain Risk Management (C-SCRM)





# Your network is only as strong as its weakest link.

- Many different suppliers of good, services and products
- Vulnerabilities and Exploits and filter down the chain
- Importance of vigilance and continuous monitoring of the risk process



# Malicious Actors Targeting the Supply Chain

- Increasing Attacks on Supply Chains
- Compromised Supplier Systems looking at the "bigger" picture
- Introduction of malware, keyloggers and ransomware
- Making changes to software and code itself
- Creating backdoors or persistent access for a later date







## **Scope and Purpose**

- Clear definition of the scope outline supply chain coverage
- Emphasize the importance of managing cybersecurity risks within the supply chain
- Allows for focused efforts
- Give clear goals and prioritization
- Communication and Collaboration



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# **Risk Assessment**

- Defining vendor criticality assign a metric or number
- · Outline the service/product or devices provided
- What access does that vendor access to systems and data
- · Review the security practices of the vendors



# **Contractual Security Clauses in C-SCRM**

- Mandatory Security Requirements
- Regular Security Audits
- · Adherence to Security Standards
- Prompt Incident Reporting
- Continuous Improvement
- Termination Rights



# Monitoring and Continuous Improvement in C-SCRM

- Ongoing C-SCRM Process
- Regular Monitoring
- · Adaptive Updates
- This is process is ongoing to address:
  - · Cybersecurity as an evolving landscape
  - · Vendors security postures changes over time
  - · Limited visibility and mitigation processes
  - Improve decision making capabilities
  - Maintain compliance



# **Incident Response (IR)**

- Good IR planning is critical as it allows
  - · Faster recovery from disruption
  - Reduce escalation with prompt efforts
  - · Improve communication and collaboration
  - Preserving evidence
  - Lesson learning process

### · This is achieved through

- Proactive preparation
- Vendor communication
- Contractual obligations



# **Referencing relevant standards**

- Why use a framework
  - Promote best practices
  - Raise awareness
  - Enforcement and accountability
  - Improved sharing opportunities

# Referencing relevant standards

- Governing bodies that dictate policy:
  - National Institute of Standards and Technology (NIST)
  - Cybersecurity and Infrastructure Security Agency (CISA)
  - Federal Communications Commission (FCC)
  - Some local Public Utilities Commission (PUC) – Depending on state.



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# NIST

- Created special publication 800-161 –
  Defines supply chain risk management
- NIST Cybersecurity Framework (CSF) -Guidelines for managing cybersecurity risks. Contain sections consisting of; Identify, Protect, Detect, Respond, and Recover.
- NIST 2.0 Standards and guidelines (newish)



# CISA

- Part of the Department of Homeland Security (DHS)
- Analyzes and communicates cybersecurity risks
- Collaborates between private and public sectors
- Critical and essential infrastructure security







# **Center for Internet Security** (CIS)

- Non-profit organization established 2000
- Develop best practices, controls and benchmarks for a wide range of industries, devices and software
- Global collaboration among IT professionals

# Real world supply chain incidents

• **Slack** - In December 2022, a malicious actor stole Slack employees' tokens and used them to gain unauthorized access to the company's resources. The data breach was a result of third-party vendor compromise.

• **Dollar Tree** - In November of 2023, Dollar Tree disclosed a data breach affecting nearly 2 million individuals, including employees' personal information, after a attack targeting service provider Zeroed-In Technologies in August 2023, with potential impacts on other Zeroed-In customers remaining unconfirmed

# Real world supply chain incidents cont'd

Okta - In October 2023, Okta's third-party, Rightway Healthcare, informed them that an unauthorized actor gained access to an eligibility census file maintained by Rightway in its provision of services to Okta. The security incident exposed personal and healthcare data of nearly 5,000 Okta employees and their dependents. AT&T – In March 2023, AT&T announced that approximately 9 million wireless accounts had their customer proprietary network information accessed when an unauthorized person breached a third-party vendor's system. The vendor, who wasn't named, provides marketing services. While information, such as names, email addresses, phone numbers, the number of lines on an account and wireless rate plans were accessed, no Social Security Numbers, account passwords, financial information, or other sensitive personal information was stolen.





# **Ongoing cybersecurity requirements**



### E-ACAM funded carriers must:

Submit cybersecurity and C-SCRM plans to USAC within 30 days of making substantive modifications



### Which includes:

A Cybersecurity plan within the NIST framework A C-SCRM plan within the NIST framework









# Summary

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