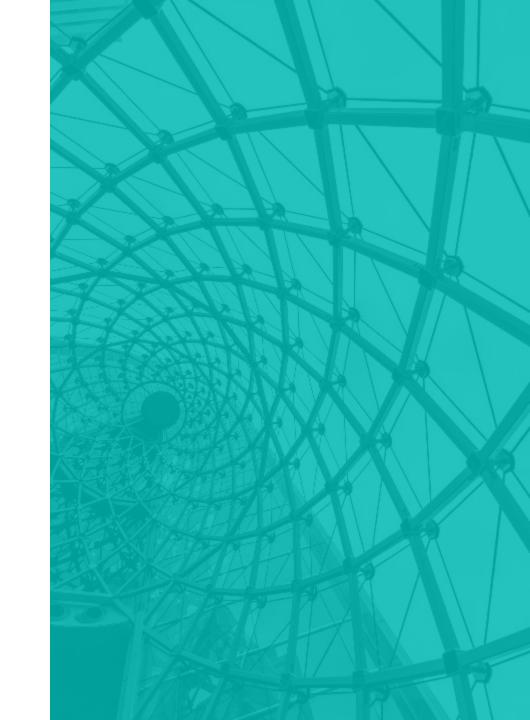


Cybersecurity Do's and Don'ts

PAMIC – Financial Management Seminar September 18, 2025



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Introduction



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Principal, Baker Tilly

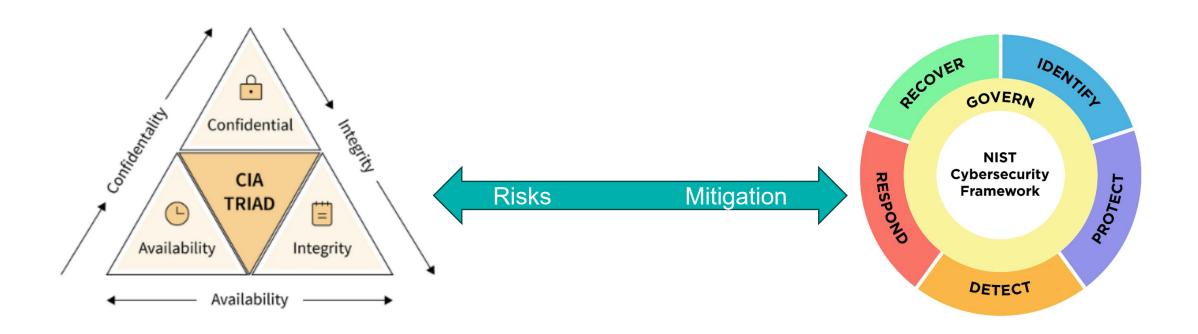
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Background History and Evolution

What is cybersecurity

- Cybersecurity is the practice of protecting systems, networks, and data from digital threats like hacking, malware, and data breaches.
- It involves tools, policies, and practices to prevent, detect, and respond to cyber incidents.



Evolution of Cybersecurity



Cybersecurity State of the State

Recent Cyber Breaches and Trends

Recent Cybersecurity Events in 2025

Key Takeaways 2025 Data Breach Investigations Report | Verizon

- 17% of breaches were Espionage motivated
- 20% of breaches involved exploitation of vulnerabilities
 (34% increase from prior year)
- 22% featured attacks on VPNs and edge devices (up 8x from prior year)
- 30% of breaches involved vendors (double from prior year)
- 44% featured ransomware (up from 32% prior year)
- 60% of breaches involved human errors or social engineering
- 95% of breaches include Server as the most common asset

Types of Cybersecurity Attacks

- 1. Phishing
- 2. Malware based attacks
- 3. Denial of service based attacks
- 4. Spoofing
- 5. Identity based attacks
- 6. Code injection attacks
- 7. Supply chain attacks
- 8. Social engineering attacks
- 9. Insider threats
- 10. DNS tunneling
- 11. IOT based threats
- 12. Al powered attacks



Example - Cybersecurity Threats

Fake Al content generator applications

Text-to-Malware: How Cybercriminals Weaponize Fake Al-Themed Websites

Fake AI video generators infect Windows, macOS with infostealers

Espionage – North Korean IT Worker infiltration

The ultimate insider threat: North Korean IT workers

Impersonation – FBI Internet Crime Complaint Center

FBI Warns of Scammers Impersonating the IC3

Cybersecurity Expectations in the Insurance Industry

Evolving Program Expectations



Governance

Cybersecurity program Cybersecurity policy Risk assessment



People

Access control Cybersecurity personnel Cybersecurity intelligence Training



Process

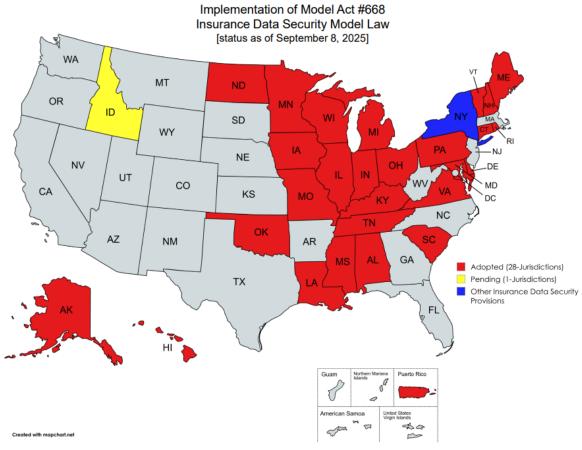
Asset Management Audit trail Secure development Incident response and required notifications



Technology

Vulnerability management Multi-factor authentication Ongoing monitoring and alerting Encryption

Cybersecurity Expectations in the Insurance Industry



This map represents state action or pending state action addressing the topic of the model. This map does not reflect a determination as to whether the pending or enacted legislation contains all elements of the model or whether a state meets any applicable accreditation standards.



NAIC – Insurance Data Security Model Law

- Section 1. Title
- Section 2. Purpose and Intent
- Section 3. Definitions
- **Section 4. Information Security Program**
- **Section 5. Investigation of a Cybersecurity Event**
- Section 6. Notification of a Cybersecurity Event
- Section 7. Power of Commissioner
- Section 8. Confidentiality
- Section 9. Exceptions
- Section 10. Penalties
- Section 11. Rules and Regulations
- Section 12. Severability
- Section 13. Effective Date
- A. Implementation of an Information Security Program
- B. Objectives of Information Security Program
- C. Risk Assessment
- D. Risk Management
- E. Oversight by Board of Directors
- F. Oversight of **Third Party** Service Provider Agreements
- G. Program Adjustments
- H. Incident Response Plan
- Annual Certification to Commissioner of Domiciliary State

NYDFS Part 500 - Amended November 2023



500.02 – Cybersecurity program 500.03 – Cybersecurity policy 500.04 – Cybersecurity governance 500.05 – Vulnerability management

500.06 – Audit trail

500.07 – Access privileges and management

500.08 – Application security

500.09 – Risk Assessment 500.10 – Cybersecurity personnel and intelligence 500.11 – Thirdparty service provider security policy

500.12 – Multifactor authentication 500.13 – Asset management and data retention requirements

500.14 – Monitoring and training 500.15 – Encryption of nonpublic information 500.16 – Incident response and business continuity management

500.17 – Notices to superintendent

Cybersecurity Best Practices - Boards of Directors

Cybersecurity Best Practices for Boards of Directors

- Oversight of the covered entity's cybersecurity risk management.
- Have sufficient understanding of cybersecurity risk and related matters to exercise such oversight.
- Require management to develop, implement and maintain a robust cybersecurity program aligned with a comprehensive framework.
- Receive regular updates about cybersecurity risks and the effectiveness of the organization's cybersecurity program.
- Foster a culture of cybersecurity and determine how management embeds cybersecurity risk into strategic decision making.
- Ensure management has allocated sufficient resources to implement and maintain an effective cybersecurity program.
- Understand the company's organizational resilience expectations, capabilities and forward-looking enhancements.
- Encourage management to seek independent assessments of program effectiveness.

Common IT and Cybersecurity Audit and Examination Observations

Common Audit/Examination Findings



IT governance, including policies and procedures



Access control, provisioning and review



Authentication standards



Organizational Resiliency testing



Risk assessment



Third-party risk management



Logging and monitoring



Asset Management

Key Takeaways And Q&A



Maintaining a Comprehensive Information Techology & Cybersecurity Program

IT governance

- Policies and procedures
- People
- •Role of executive management and those charged with governance

Access control

- User access provisioning/deprovisioning and review
- Segregation of duties
- Security administration
- Elevated privileges
- Access review
- Physical security access and monitoring

Change management and SDLC

- Planning
- Development
- Testing
- Approval
- Production
- Segregation of duties and environments

Contingency planning

- Backup and restore processes
- Recovery: Disaster Recovery and Business Continuity
- •Response: Incident Response and Crisis Management

Security operations

- •Network security: IPS/IDS, FW
- Encryption solutions
- Monitoring and alerting solutions: SIEM, network performance, DLP, endpoint
- •Vulnerability management: scanning, patching

IT operations

- System integrations
- Job scheduling and monitoring
- Environmental controls

Vendor management

- Planning
- Due diligence
- Contracting and onboarding
- Monitoring: performance, strategy/financial, information security
- Termination

Training and awareness

- Technical training
- Security awareness and reinforcement
- Anti-phishing training

Data governance

- Key report management
- Data flow mapping
- Data intake, sharing and processing

Asset management

- Inventory
- Configuration management
- Acquisition, maintenance and disposal
- Record retention and destruction



Key Takeaways



Stakeholder Involvement

Cybersecurity is a business issue, not just an IT issue



Continuous Improvement

Test, assess results, change then retest



Train Your People

What does good look like? Train, test, reinforce

Questions?

