

Information Security Roadmap Update



Recap Since We Last Met

- Monthly vulnerability reviews with all locations
 - Significant reduction in open vulnerabilities
- Security Council
 - Monthly to bi-monthly meetings
 - Decision-making body for security standards and procedures
- 3rd Party review process
 - Vendors with access to personal or confidential information must complete a security assessment
- Hardware/software review process
 - All new hardware/software acquisitions must be approved by IT and security team where applicable
- C2 Security assessment recommendations
 - Backup and recovery strategy
 - MFA
 - Access controls
- Policy updates, several in progress
 - Acceptable Use, Conditions of Use, Elevated Access, Equipment Hardening
- Stakeholders/Transformation - brought many items through discovery/design stage gate
- MFA
 - In flight, targeting launch in June

Base Level Capabilities for an Effective IT Security Program

Prevention	Detection	Mitigation	Recovery
Education ■	Mail Filtering ■	3 rd Party Emergency Support ■	Enterprise Backup and Recovery Platform* ■
Vulnerability Scanning ■	Virus and Malware Protection ■	<i>Incident and Ransomware Response Plans*</i> ■	Critical System Recovery Plans* ■
Firewalls ■	<i>Security Information Event Management (SIEM)*</i> ■	Staffing Resources or SOC Support ■	
Access Controls ■	Advanced Threat Detection ■	Critical Application Support (O365) ■	
Virus and Malware Protection ■			
<i>Multifactor Authentication*</i> ■			
<i>Privileged Access Management*</i> ■			
<i>Asset Management*</i> ■			
Penetration Test ■			

Policies, Procedures, Audit and Leadership Support ■

■ Sufficient Capability In Place

■ Partial Capability or In Progress

■ No Capability

Next Steps

- Multifactor Authentication
- Security Information Event Management Platform
- Privileged Access Management Platform
- Asset Management and Discovery
- Operational Best Practices

- Critical Applications Vendor Support
- Resources
- Vendor Partnerships

Cyber Insurance
Requirement



Critical Enabler

Thank you! Questions?



Why is this important?

What are we Protecting?

- Organization Data
- Employee and Student Data
- Ability to Deliver Education



What are protecting it From?

- IT Interruption and Outages
- Ransomware
- Account Theft
- Data Theft and/or Destruction

What are the Costs of Data Breach

- Average cost per data breach: \$4.24mm
- Cost Per Record Stolen: \$180
- Average Cost per Ransomware Event: \$1.8mm
- Public Relations Impact
- Regulatory Scrutiny

What Capabilities Need Attention	What Are The Risks	What Do We Need to Do
<ul style="list-style-type: none"> • Access Controls 	<ul style="list-style-type: none"> • Unauthorized users with stolen credentials could remove sensitive information from our environment. • Unauthorized devices can introduce ransomware or other malware into the into the environment. 	<ul style="list-style-type: none"> • Harden access controls to leverage multifactor authentication • Implement a platform and process to scan for unauthorized equipment in our environment
<ul style="list-style-type: none"> • Super and Administrative User Controls (Software and Hardware) 	<ul style="list-style-type: none"> • These users have significant access to applications and hardware including local PCs. If their account is compromised the perpetrator will get the same access. 	<ul style="list-style-type: none"> • Ensure only users with a need for elevated access can obtain it, only when they need it • Have the ability to monitor usage of privileged accounts • Ensure all users with elevated access are reviewed periodically
<ul style="list-style-type: none"> • Backup and Recovery Policies and Standards 	<ul style="list-style-type: none"> • In the event of a major outage or security incident, inadequate backups may make restoration of data impossible 	<ul style="list-style-type: none"> • Set minimum standards for backups and develop a roadmap for backup and recovery strategy
<ul style="list-style-type: none"> • Resources and Critical Applications Support 	<ul style="list-style-type: none"> • We do not have the resources to properly investigate security incidents which can lead to a major incident • We have mission critical applications without vendor support (O365) 	<ul style="list-style-type: none"> • Build a basic investigative security capability and acquire the tools needed to manage security incidents • Ensure as we add new capabilities, we have adequate support before implementation.
<ul style="list-style-type: none"> • Operational Best Practices 	<ul style="list-style-type: none"> • Without basic governance processes we run the risk of a security incident <ul style="list-style-type: none"> • User True Ups • Access Reviews • Policies • Disaster Recovery 	<ul style="list-style-type: none"> • Continue to expand governance programs • Continue to update existing and develop new policies