

Current State of Cybersecurity

November 3, 2022



Cybersecurity Trends from Other States

- Talent Gap
 - Salary pressures
 - ADS-Security suffers from this trend. Salary studies show the gap between open market and State salaries.
 - Contractor support
 - ADS-Security has relied on contractors increasingly to meet operational requirements (SOC, firewalls, networks).
 - Remote work
 - ADS-Security does well with our remote work policies. Staff cite the hybrid model as a plus for flexibility and productivity.



Cybersecurity Trends from Other States

- Whole of State Approach
 - Tighter ties between branches
 - Three-party discussions between ADS, LEG, and JUD
 - Support for election security with SOS
 - Local and municipal governments receiving services from the State
 - SLCGP as part of IJA will drive closer ties with L/M and create an environment where we can offer State administered services related to cybersecurity
 - Critical Infrastructure reporting and regulations at the State level
 - Exploring steps to create a framework for CI in Vermont. Ties into Emergency Management and critical services



Cybersecurity Trends from Other States

- Cyber Maturity
 - Refining cybersecurity plans
 - ADS-Security refining plans to address trending initiatives and take advantage of momentum of other states
 - Documenting current practices and process as part of consolidating efforts
 - Multifactor authentication
 - Vermont has had MFA for 4+ years, enhancing MFA to adaptive system is on the roadmap
 - Risk assessment and remediation
 - Cornerstone of our cybersecurity program (next slide)



Risk Maturity Journey

- Improvement in platform updates
 - Marked reduction in old operating system platforms
 - Pre-set configuration standards for new systems
- Software patching cadence
 - Weekly scans and reporting
 - Tracking vulnerability loads and trending over time
- Intrusion prevention and endpoint detection
 - Continued refinement of sensors
 - Tie-ins to threat intelligence feeds



Cybersecurity Projects In-progress

- Security Information and Events Manager (SIEM)
 - Eliminates fractured approach to log collection and aggregation
 - Allows for enterprise-wide identification of attack and infection patterns
 - Includes vendor supported response
 - Incorporates playbooks for automated response
- Firewall and Security Architecture
 - Addresses network challenges brought about by remote work (statewide)
 - Re-allocation of resources to areas of high traffic
 - One core data center complete
 - Second scheduled for December 2022



Overarching Threat Trends

- System and network vulnerabilities are trending down through risk management efforts
 - Bucking the trend
- Attacks on our internet edge are up sharply
 - Geopolitical pressures
- Increase in incidents
 - Phishing
 - Browser plug-ins
 - Watering hole attacks
- No ransomware attacks in State government
 - We are not immune, just spared



