

# Michigan Auditors in Glass Houses



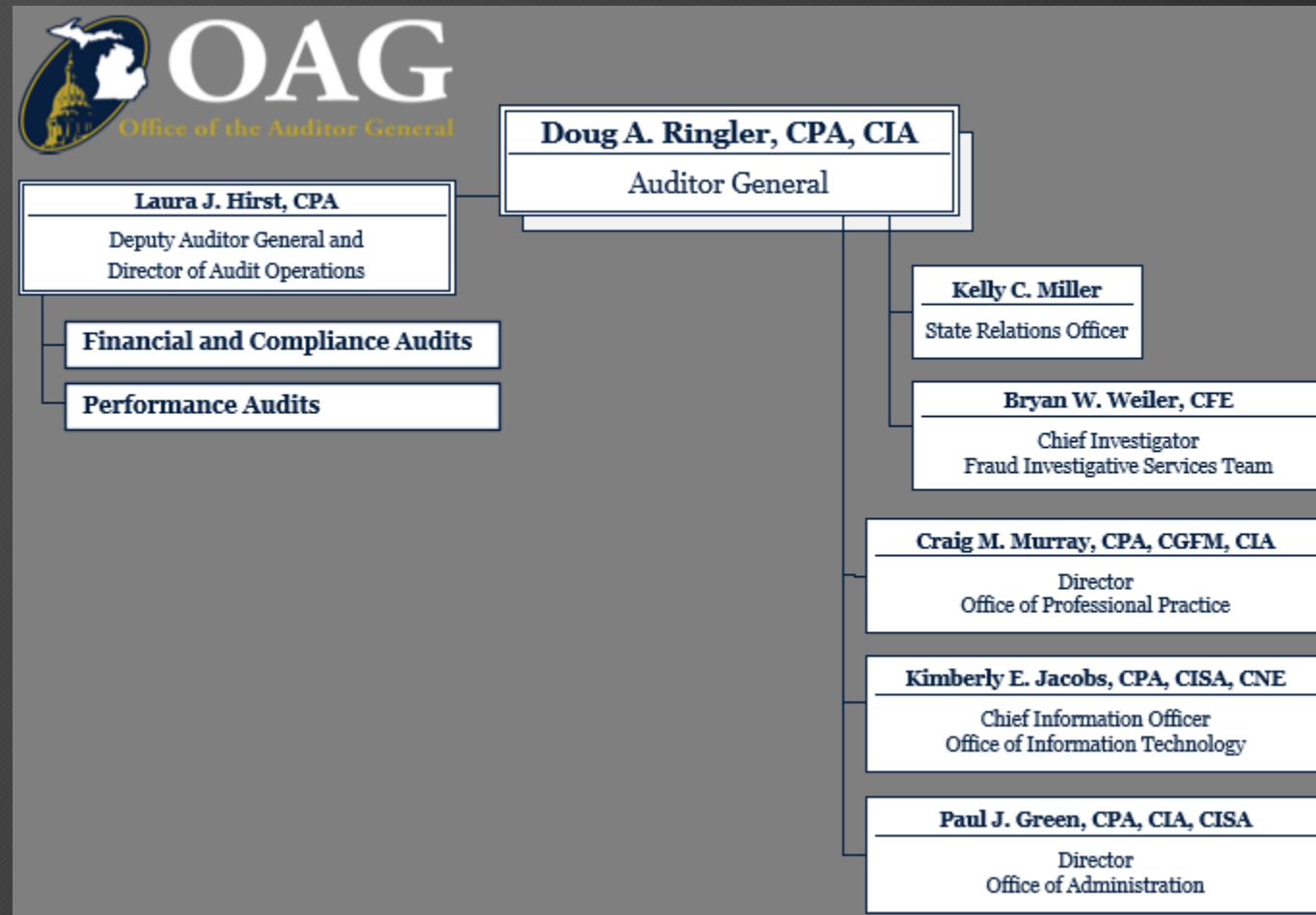
Dodi E. Smith  
Information Security Manager

# A Little About the Michigan Office of the Auditor General (OAG)

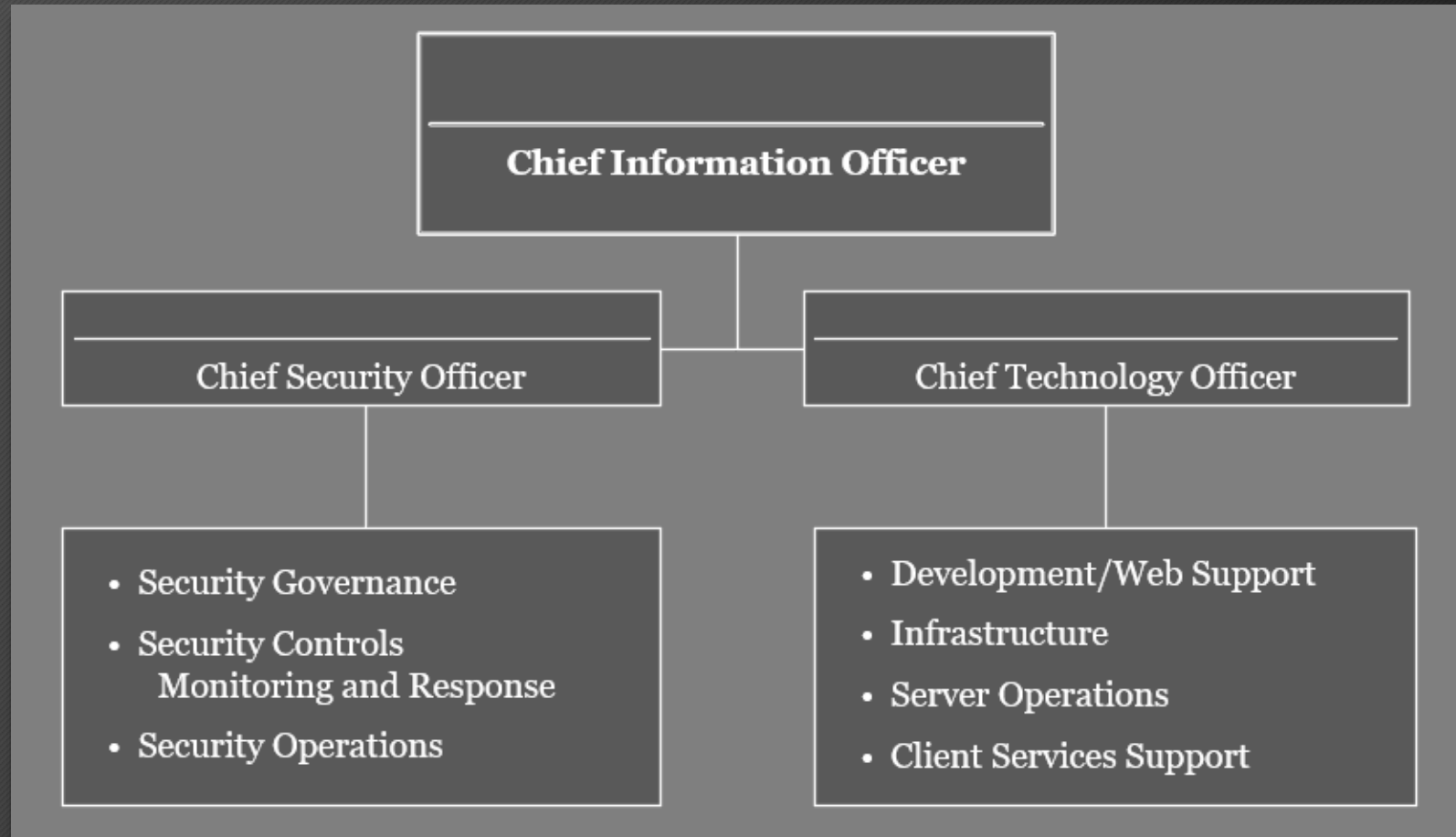
## Auditor General - Appointed by Legislature

- 154 employees
- \$26 million budget
- Fiscal Year 2020 Audits
  - 18 financial/single audit
  - 32 performance audits and follow-ups
  - 10 other projects
  - 15 contract audits

# OAG Organizational Chart (July 2021)



# Office of Information Technology



# A Little About Michigan Government...

## State of Michigan

- 17 Executive Branch Departments
- 48,000+ State Employees
- \$62.7 billion budget
- 1.2 million recipients of government food assistance
- 1.7 million residents in the Medicaid program
- 13,000 foster care children
- 1.4 million pupils
- 5 million individual income taxpayers
- 92,000+ prisoners

# Our Authority

The State Constitution and State law provide the OAG with authority to access all State department records upon demand.

Clarifying points in the law that have helped us:

- The auditor general is subject to the same duty of confidentiality imposed by law on the entity providing the confidential information.
- The auditor general is subject to any civil or criminal penalties imposed by law for unlawfully disclosing that confidential information.

# EVALUATION

Outstanding

Very Good

Satisfactory

Marginal

Security Assessment

# Security Assessment of the OAG IT Environment

- Policy, Process and Procedure Assessment and Maturity Review
- Framework Recommendation
- Vulnerability Scan
- Organizational Structure Review
- Remediation Plan



# What We Learned From the Security Assessment

- Summarized the OAG's security posture
- Identified the gaps in our security posture
- Prioritized our to-do list

# To-Do List

Framework/Security Governance

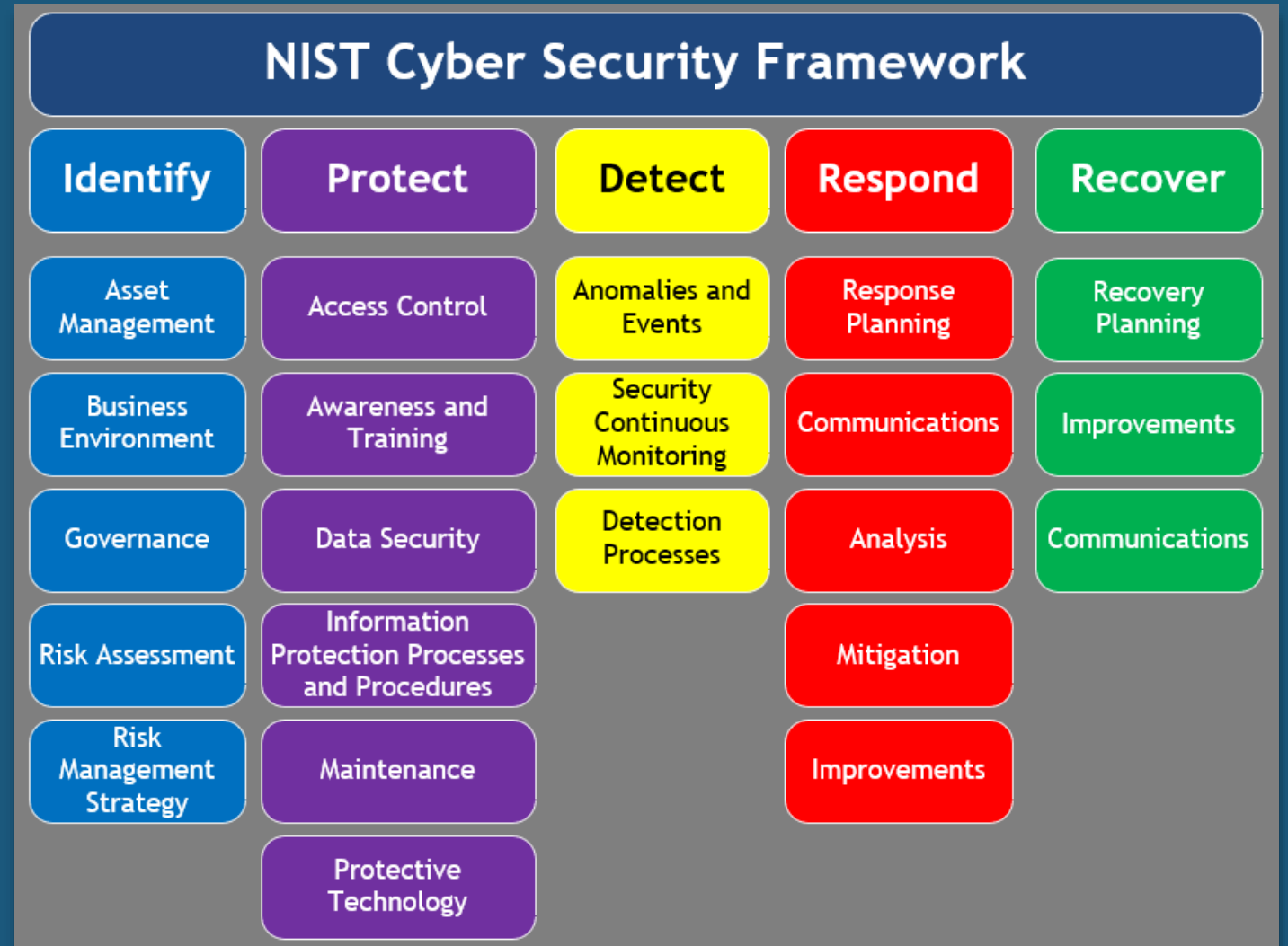
Staff Augmentation

Hardware and Software Considerations

- Centralized Logging
- Security Information and Event Management
- Segregated Production & Non-Production
- Vulnerability Scanning
- Multi-Factor Authentication
- Enhanced Asset Inventory Tracking
- Network Monitoring

# Adopt a Security Framework

The Framework is a helpful tool in managing cybersecurity risks.





## Basic

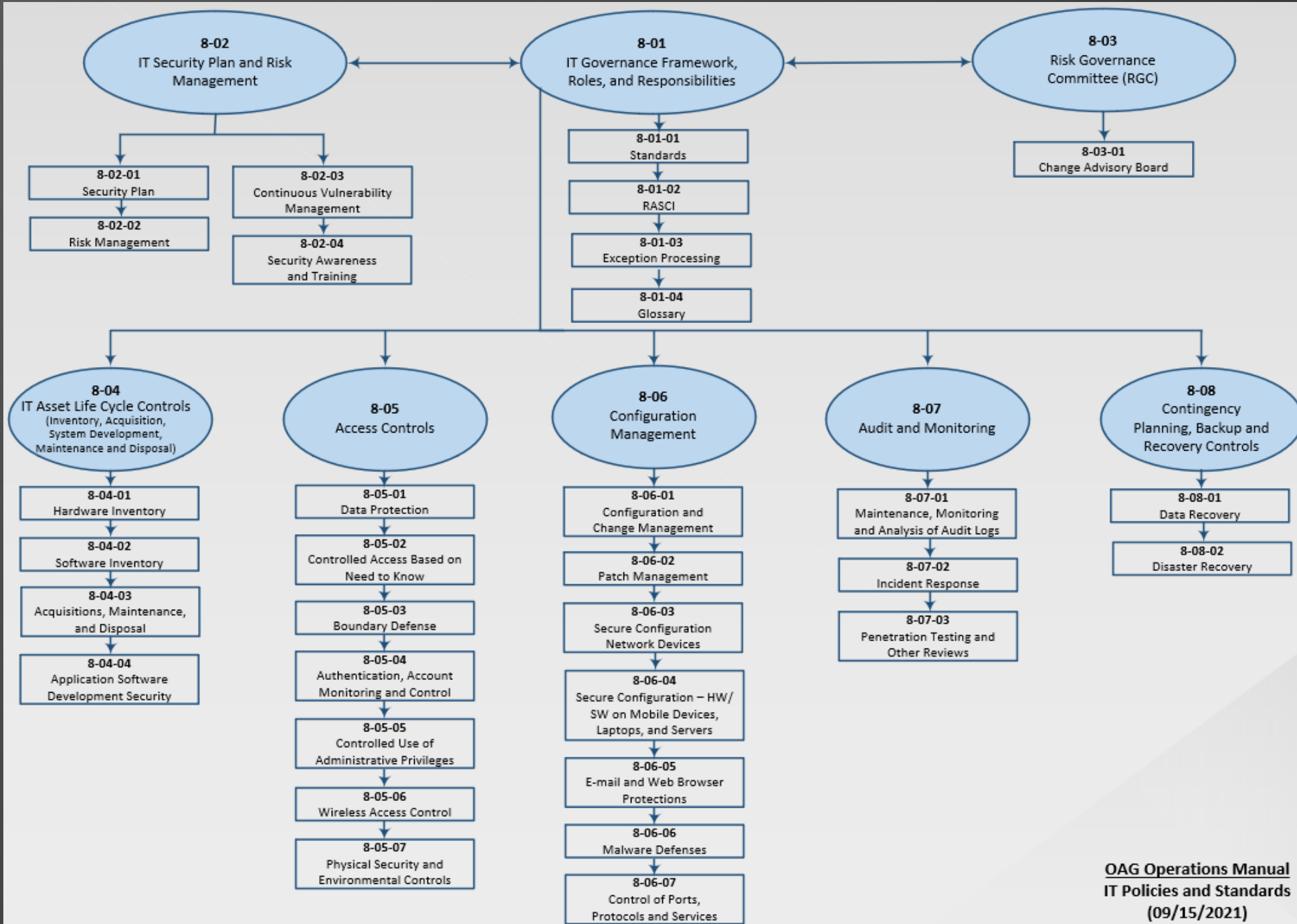
- 1 Inventory and Control of Hardware Assets
- 2 Inventory and Control of Software Assets
- 3 Continuous Vulnerability Management
- 4 Controlled Use of Administrative Privileges
- 5 Secure Configuration for Hardware and Software on Mobile Devices, Laptops, Workstations and Servers
- 6 Maintenance, Monitoring and Analysis of Audit Logs

## Foundational

- 7 Email and Web Browser Protections
- 8 Malware Defenses
- 9 Limitation and Control of Network Ports, Protocols and Services
- 10 Data Recovery Capabilities
- 11 Secure Configuration for Network Devices, such as Firewalls, Routers and Switches
- 12 Boundary Defense
- 13 Data Protection
- 14 Controlled Access Based on the Need to Know
- 15 Wireless Access Control
- 16 Account Monitoring and Control

## Organizational

- 17 Implement a Security Awareness and Training Program
- 18 Application Software Security
- 19 Incident Response and Management
- 20 Penetration Tests and Red Team Exercises



# IT Governance

- Risk Governance Committee
- Change Advisory Board



✓ **ROUND-THE-CLOCK  
MONITORING**



✓ **VULNERABILITY  
SCANNING**



✓ **ACCESS TO  
SPECIALIST EXPERTISE**

**Managed Security  
Service Provider (MSSP)**

# Center for Internet Security (CIS)

- CIS Benchmarks
- CIS-Configuration Assessment Tool (CAT)
- CIS Controls Self-Assessment Tool (CIS CSAT)



# Multi-Factor Authentication (MFA)

The OAG is implementing MFA to increase our security to authentication.

- DUO is currently required for access to:
  - Office 365
- Within 2 months, DUO will be required for:
  - Cisco AnyConnect VPN
  - Microsoft Login and RDP (terminal services)



# Challenges

- Managing Change
- Balancing security and end user usability
- Keeping the momentum

# Next Steps:



**STRENGTHEN  
SECURITY POSTURE**



**ASSESS RISK**



**AUDIT**

# Questions

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