SEPTEMBER 2019 AUDIT COMMITTEE INFORMATION SECURITY UPDATE

ISAAC STRALEY

CHIEF INFORMATION SECURITY OFFICER



KEY POINTS

- Issues & risks continue to be tracked. Mitigation efforts are in progress but substantive risk remains.
- External assessment of overall security program is in progress on-site interviews the week of November 4th and report in December.
- Information Security Council (ISC) is engaged to endorse external assessment targets, increasing governance maturity.
- Priority ITS security projects for FY19-20 are on track.
- Initial draft budget request for FY20-21 includes increases for security operations, risk assessment, and program support.
- Canadian Shared Security Operations Center (CanSSOC) proofof-concept progressing.



ISSUES & RISKS – CISO HIGHLIGHTS

Item	Mitigation
Unknown data repositories	Publish data classification, train on risk self-assessment, create inventory project with units
Credit card security	Request funding, review overall program, secure & reduce payment channels
Network segmentation	Deploy border firewall , research access control tools, support network upgrades for modern routing,
Nation State threats	Create travel guidelines, escalate as a risk, improve attribution, focus on research
Compromised accounts & email security	Focus on anti-phishing, move to native O365 protection tools, launch multi-factor authentication service(s), create identity strategic plan
Unpatched devices & vulnerability management	Deploy enterprise scanning tool , increase scanner visibility, create device quarantine procedure, improve metrics
Incident response	Focus ISC workgroup on playbook development, tabletops for practical training with units, fill staff vacancies, CanSSOC, improve metrics
Security staffing	Make hiring an ITS priority, support unit staffing needs, increase opportunities for students Bold denotes in progress
TORONTO	Dold delibies in progress

PRIORITIES 2019-2020

Identify	Protect	Detect	Respond	Recover
Risk Assessment Program Security Standards Baseline Data Classification Awareness and Training	Office 365 Security Gateway Firewall Multi-factor Authentication VPN	Vulnerability Management Program Security Event Monitoring System	Incident Response Playbooks Establish retainers with incident response service provider(s)	Table-top Exercises Review Back-up Strategy



EXTERNAL SECURITY ASSESSMENT

Summary

- Based on NIST Cyber Security Framework (CSF)
- · "Hybrid" EY & 3 U15/R1 CISOs
- Targets set with Information Security Council (ISC)
- Broad assessment depth will be achieved with facilitated & self-assessment risk program
- CISO will respond with action plan and budget proposals

Update

On-site interviews week of Nov 4



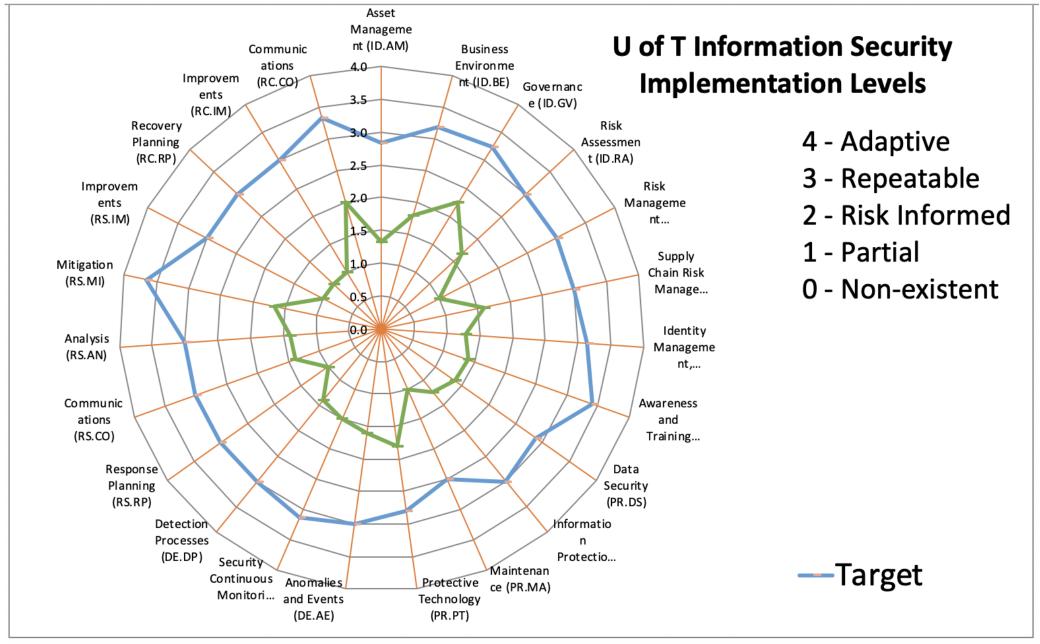
Timeline

July - August
Selection & negotiation

September - October Scheduling, document review

November
Interviews, report draft

December Report





INITIAL DRAFT BUDGET REQUEST

Proposals Carried Over From Last DAC

Information Security Compliance and Risk Assessment

New Proposals

- Info Security Program Maturity and Enhancements
- Info Risk Program Maturity and Enhancements
- Identity & Access, Info Security Space, and CISO Support

In-negotiation Joint Proposals

- Research info security & risk analyst
- PCI compliance program

