

Status Update: Cook County Information Security

SENSITIVE AND INFORMATION SECURITY RELATED

March 2022



The Chief Information Security Officer's (CISO's) semi – annual report shall detail:

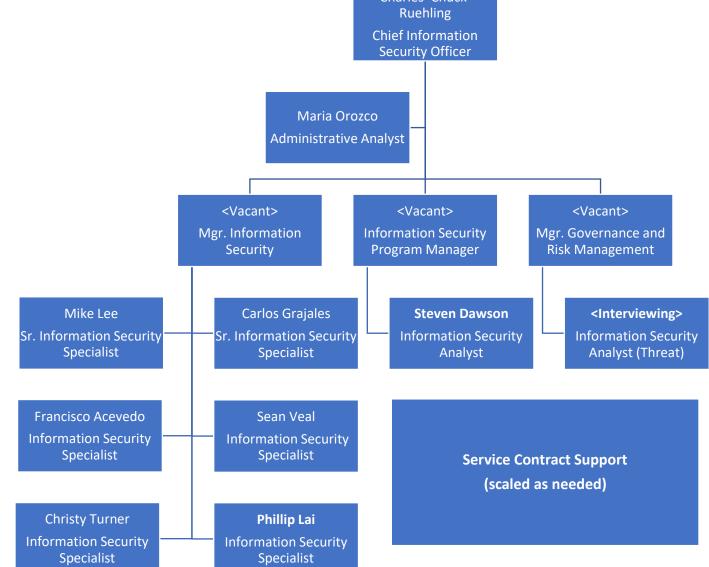
- The status of all Agencies' adoption and compliance with the Information Security Framework (ISF); and
- A summary of all advice and recommendations of each Agency regarding their unique considerations.

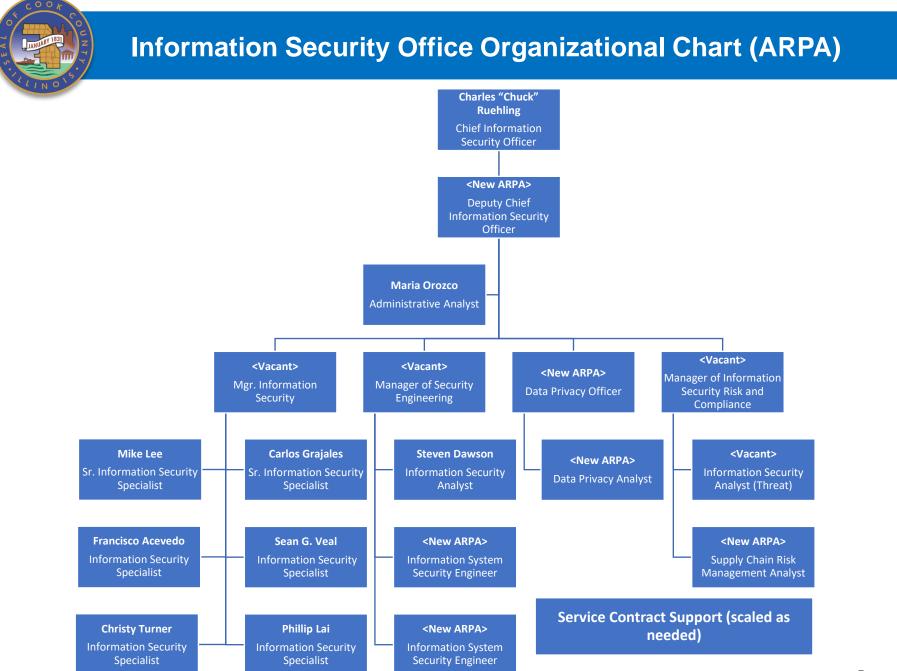


Addressed Multiple Cyber Threats – Feb '21 to Jul '21

EternalRomance Rar () () EternalRomance Ransomware	Eternal Tools	WannaCry (leveraged EternalBlue and EternalRomance ransomware)	Bad Rabbit Ransomware
Pety Events, Ransomware	88,32	2,200,	886 pat Corruption Vulnerability (CVE-2017-3122)
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Adobe crobat Reado Sta Vulner in Coord Coord Reader Service 2017-3049	Adobe Acrobat Reader Type Confusion Remote Code Execution (CVE- 2017-11221)	Adobe Acrobat Reader Use After Free Vulnerability (CVE- 2016-1089)	Adobe Acrobat Type Confusion Vulnerability (CVE-2017-16406)
Adob Act acc Kets : er ree Vulnerability(CVE-2016- 0932)	12226 Too many to name individually	Adobe Reader– Too many to name individually	Adobe Shockwave Player – Too many to name individually 3

Information Security Office Organizational Chart Charles 'Chuck' Buebling







Information Security Office (ISO) Major Events



Agency Support

Completed Updates of the Information Security Framework Policies Based on the NIST Special Publication (SP) 800-53rev5 – in Total 20 Families

Successfully requested American Rescue Plan Act (ARPA) Funding to mature ISO Organization to incorporate Data Privacy, Security Engineering and Supply Chain Risk Management Capabilities

Began Implementation of Two Factor Authentication (2FA) on Virtual Private Network (VPN) Infrastructure and continued Work with Several Agencies to Integrate Two-Factor Authentication (2FA) into IT Environments

Hosted Vendor Engagements or ISO Security Tool Training with 10 Different Capabilities in ISO Tool Stack



2022 Projects / Events

CYBERSECURITY INCIDENT RESPONSE TABLETOP EXERCISE (TTX)

• Building on the After-Action Report (AAR) and lessons learned from the June 2021 TTX will continue to mature the Cybersecurity Incident Response TTX for 2022

INFRASTRUCTURE REFRESH OF THE SECURITY TOOL STACK

• Capital Budget approved for 2022, the ISO will continue the refresh of the security tool stack that is at end of life for vendor support while evaluating capabilities.

PREPARE FOR INFORMATION SECURITY OFFICE GRANT BUDGET SHORTFALL

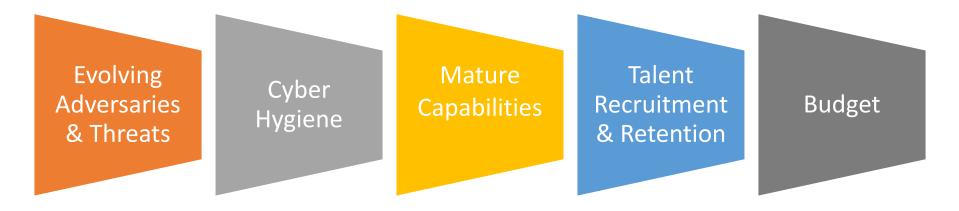
• Build the request and justification for some ISO provided security capabilities moving to a fixed charges model as early as Cook County FY 2023.

MATURE E-MAIL SECURITY

 Implement and test new authentication technologies for our e-mail environment DomainKeys Identified Mail, Sender Policy Framework, and Domain-based Message Authentication Reporting and Conformance (DKIM, SPF, and DMARC)



Cyber Security Challenges



Information security is a continuous process that requires due diligence, expertise and collaboration from all agencies to ensure that Cook County is adequately prepared for cyber security threats.

A modern cybersecurity program must have Board and Executive level visibility, funding and support.



Questions

