



Status Update: Cook County Information Security

SENSITIVE AND INFORMATION SECURITY RELATED

September 2021



Purpose

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 – Aug '20 to Jan '21

Total

EternalRomance Ransomware

Eternal Tools

WannaCry (leveraged EternalBlue and EternalRomance ransomware)

Bad Rabbit Ransomware

Events:

88,322,200,886

Security Events:

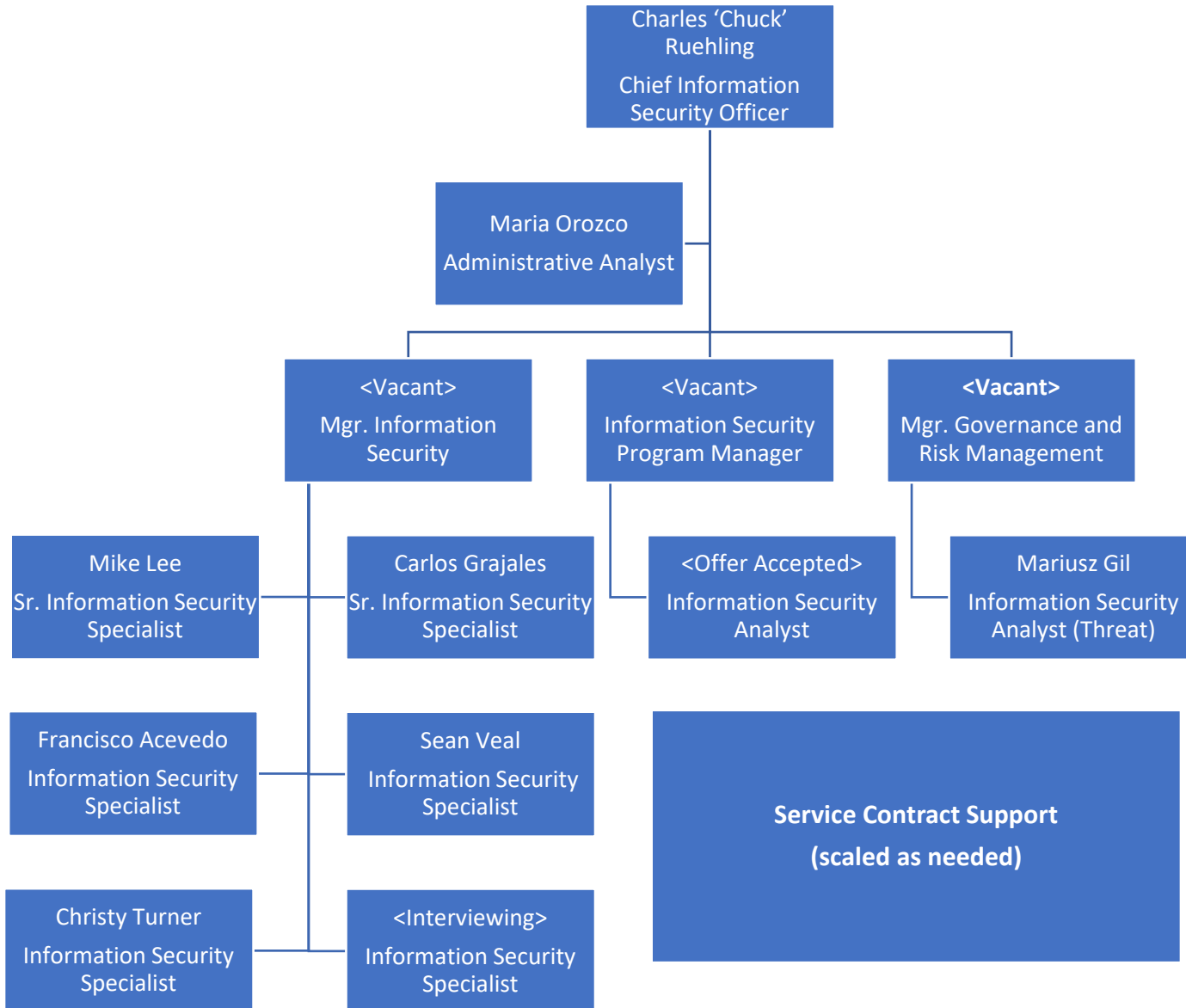
963,187,038

Incidents (Tickets):

1,226

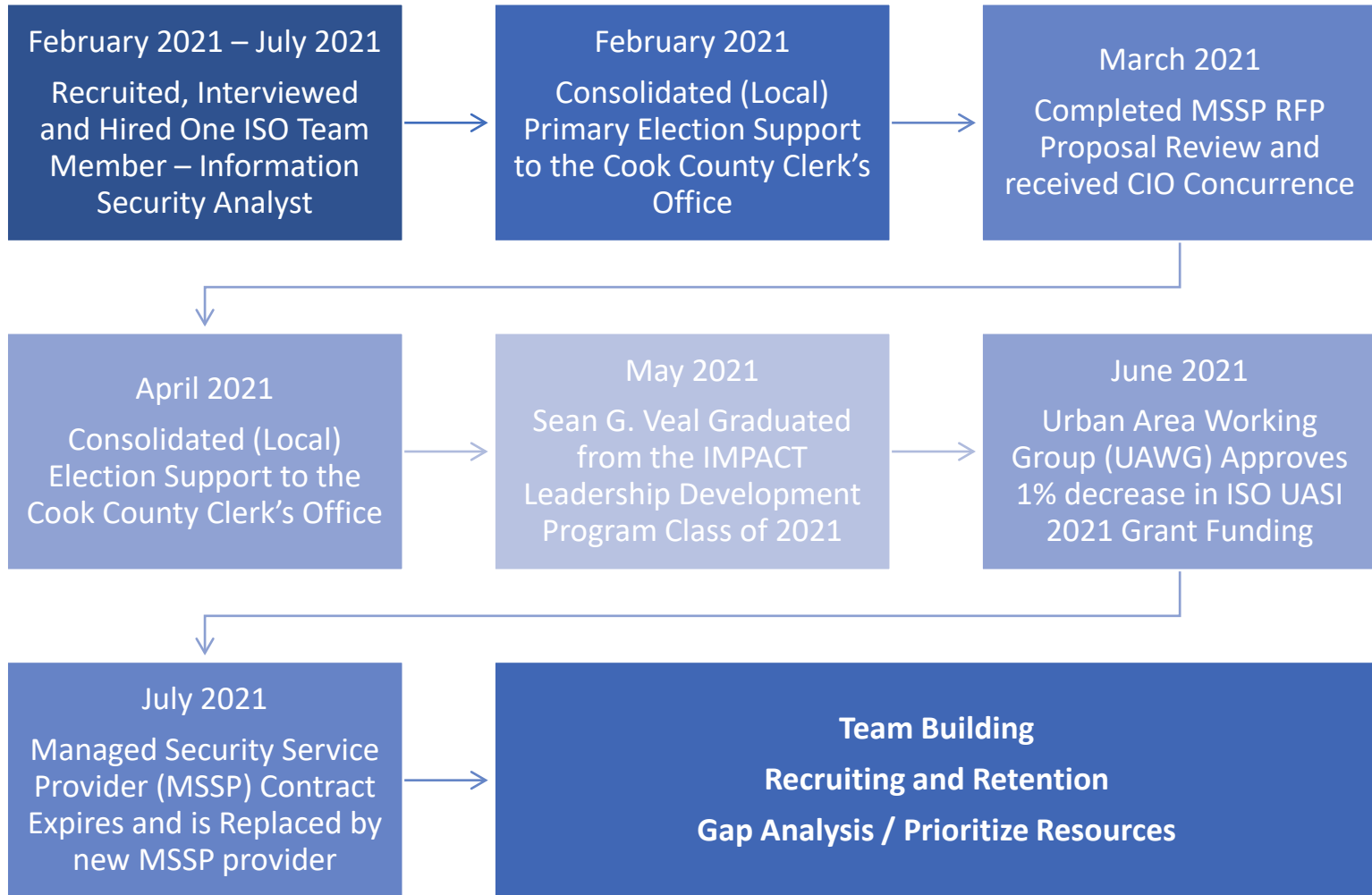


Information Security Office Organizational Chart





Information Security Office (ISO) Major Events





Agency Support

Completed All Drafts of the Information Security Framework Policies Based on the NIST Risk Management Framework (RMF) – in Total 20 Policies

Completed Request for Proposal (RFP) Review Process for expiring Managed Security Service Provider (MSSP) contract and Awarded new Four (4) Year Contract

Continued to Mature the Information Technology (IT) Concurrence Process, Integrating a Supply Chain Risk Management Step for IT Vendors not Currently in use.

Working with Several Agencies to Integrate Two-Factor Authentication (2FA) into their IT Environments



2021 Projects / Events

SYSTEM SECURITY PLAN DEVELOPMENT IAW NIST 800-53 CONTROL SET

- In 2021, the Information Security Office (ISO) will develop a System Security Plan (SSP) in accordance with the NIST RMF set of Policies in preparation for a comprehensive Security Assessment of all ISO Security Controls.

INFRASTRUCTURE REFRESH OF THE SECURITY TOOL STACK

- Through the remainder of 2021, 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.

INFORMATION SECURITY OFFICE STAFFING

- Recruit and retain motivated cybersecurity talent that is technically proficient, team-oriented and service-minded. Leverage contract resources to enhance capabilities where appropriate.



Cyber Security Challenges

Evolving
Adversaries
& Threats

Budget /
Mature
Capabilities

Team
Building

Talent
Recruitment
& Retention

Cyber
Hygiene

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

