

CCAM 2023

County Information
Technology
Best Practice

Charlie Herbst, Associate Commissioner
Cape Girardeau County

Tracy Graham, Associate Commissioner
Audrain County

Angie Robinson, Cyber Security Specialist
Missouri Office of Homeland Security

Robert Graham, MO State Coordinator
Cybersecurity and Infrastructure Security Agency

General Computer Terms

Access control The process of granting or denying specific requests:

- 1) obtain and use information and related information processing services; and
 - 2) enter specific physical facilities.
-

Antivirus software A program that monitors a computer or network to identify all major types of malware and prevent or contain malware incidents.

Authentication Verifying the identity of a user, process, or device, often as a prerequisite to allowing access to resources in an information system

MFA – Multi-Factor-Authorization

General Computer Terms

- Backups A copy of files and programs made to facilitate recovery if necessary
- Cybersecurity Prevention of damage to, protection of, and restoration of computers, electronic communications systems, electronic communications services, wire communication, and electronic communication, including information contained therein, to ensure its availability, integrity, authentication, confidentiality, and nonrepudiation
- Endpoint Protection Platform Safeguards implemented through software to protect end-user machines such as workstations and laptops against attack (e.g., antivirus, antispyware, anti-adware, personal firewalls, host-based intrusion detection and prevention systems, etc.).

General Computer Terms

- Firewall The process integrated with a computer operating system that detects and prevents undesirable applications and remote users from accessing or performing operations on a secure computer
- Incident Response Plan The documentation of a predetermined set of instructions or procedures to detect, respond to, and limit consequences of a malicious cyber attacks against an organization's information systems(s)

General Computer Terms

- Phishing - Tricking individuals into disclosing sensitive personal information through deceptive computer-based means
- Spoofing - Faking the sending address of a transmission to gain illegal entry into a secure system.

General Computer Policies and Control

Does County have a Policy and Procedure document for non-business use of workstations and county computer resources?

- Maintenance & updates
- Inventory of all equipment
- Adequate insurance for replacement
- Not using personal email for official business

General Computer Policies and Control

- Data Security (external hard drives, USB drives)
- Unauthorized use of personal devices on County network (wired-wireless)



Security

- Password Security (how often are passwords changed)
- Wireless security (do you know if you have a public network?)
- Do you know if you have virus/malware protection?
- Centralized Wi-Fi?

Backup & Recovery

Do you have backups?

Do you know where they
are?

Are they tested?

Backup & Recovery

Removable Hard drive

USB drives

Cloud backup

On-site

Off-site

Network Hardware



- Internet vendor equipment
- Firewall (intrusion detection, content filtering, logging)
- Centralized wi-fi access points
- Budget to replace every 3 years

Computer Hardware

Budget to refresh end-user equipment every 3 years

Standard county-wide virus/malware software

Cyber Insurance

- ◆ The most prominent cyber risks are privacy risk, security risk, operational risk, and service risk.

Generally, cyber insurance is designed to protect your company from these primary risks through four distinct insuring agreements:

1. Network security and privacy liability
2. Network business interruption
3. Media liability
4. Errors and omission

Cyber Insurance

- Legal expenses
- IT forensics
- Negotiation and payment of a ransomware demand
- Data restoration
- Breach notification to consumers
- Setting up a call center
- Public relations expertise
- Credit monitoring and identity restoration

- ◆ Angie Robinson, CFE, CSMIE & CCIP
- ◆ Cybersecurity Specialist

- ◆ Missouri Office of Homeland Security
- ◆ Missouri Information Analysis Center
- ◆ Angela.Robinson@mshp.dps.mo.gov

- ◆ Desk: 573-526-0153
- ◆ Work Cell: 573-301-2023

- ◆ Report a Cyber

Incident: <https://www.p3tips.com/TipForm.aspx?ID=2600&TemplateID=129>

- ◆ Tabletop Planning & IRP Writing Workshops (OHS & CISA)
- ◆ Contact SecurityIntel@mshp.dps.mo.gov
- ◆
- ◆ Tentative Dates:
- ◆ 05/17 – Region D
- ◆ 05/18 – Region E
- ◆ 08/15 – Region C
- ◆ 08/16 – Region F
- ◆ 10/24 – Region H
- ◆
- ◆ More information will come from securityintel@mshp.dps.mo.gov.

◆ Sign up for our Cybersecurity Distribution,
email securityintel@mshp.dps.mo.gov.

◆ Report a Cybersecurity Issue! SafeNation, P3 Cyber
SAR: <https://www.p3tips.com/TipForm.aspx?ID=2600&TemplateID=129>

- ◆ **Robert Graham, CISSP**
- ◆ Cyber Security Advisor, Region 7
- ◆ MO State Coordinator, Jefferson City, MO
- ◆ Cybersecurity and Infrastructure Security Agency
- ◆ U.S. Department of Homeland Security
- ◆ robert.graham@cisa.dhs.gov
- ◆ 202-705-9949

- CISA's More than a Password ([More than a Password | CISA](#))
- Cyber Essentials
- Cybersecurity Toolkit and Resources to Protect Elections
([Cybersecurity Toolkit and Resources to Protect Elections | CISA](#))
- CISA Table Top Exercises (CTEP) [CISA Tabletop Exercise Packages | CISA](#)
- Cybersecurity Grant Program

◆ CISA sponsored training programs/sites

- Federal Virtual Training Environment

([FedVTE Login Page \(usalearning.gov\)](https://www.usalearning.gov))

- Industrial Control System (ICS) Training

[Industrial Control Systems | Cybersecurity and Infrastructure Security](#)

[Agency CISA](#)

- Texas A&M

([DHS/FEMA-Funded | TEEX.ORG](https://www.teex.org))

- First Responder Training

([DHS Sponsored First Responder Training - Respond \(nmt.edu\)](https://www.nmt.edu))

National Association of Counties (NACo)

- ◆ County Tech Exchange
- ◆ Telecommunications & Technology Steering Committee
- ◆ Information Technology Standing Committee
- ◆ NACo Enterprise Cybersecurity Leadership Academy
- ◆ Cyber Attack Simulation

- ◆ Center for Internet Security
- ◆ Multi State- Information Sharing and Analysis Center
- ◆ Elections Infrastructure-Information Sharing Analysis Center
- ◆ Albert Network Monitoring
- ◆ Malicious Domain Blocking and Reporting
- ◆ Security Controls and Benchmarks

◆ Angela.Robinson@mshp.dps.mo.gov

◆ Desk: 573-526-0153

◆ Work Cell: 573-301-2023

◆ robert.graham@cisa.dhs.gov

◆ 202-705-9949