Cybersecurity Services for K-12 Education

Joe Frohlich
CISA

Burke Honzel
Montana DES

Andy Hanks
CIS

March 8, 2024

CISA

CYBERSECURITY & INFRASTRUCTURE SECURITY AGENCY

Cybersecurity and Infrastructure Security Agency (CISA)

VISION

Secure and resilient infrastructure for the American people.

MISSION

Lead the national effort to understand, manage, and reduce risk to the nation's cyber and physical infrastructure.

16 Critical Infrastructure Sectors
Education Infrastructure is Critical Infrastructure

CHEMICAL	CISA
COMMERCIAL FACILITIES	CISA
COMMUNICATIONS	CISA
CRITICAL MANUFACTURING	CISA
DAMS	CISA
DEFENSE INDUSTRIAL BASE	DOD
EMERGENCY SERVICES	CISA
ENERGY	DOE
FINANCIAL	Treasury
FOOD & AGRICULTURE	USDA & HHS
GOVERNMENT FACILITIES	DHS & GSA
HEALTHCARE & PUBLIC HEALTH	HHS
INFORMATION TECHNOLOGY	CISA
NUCLEAR REACTORS, MATERIALS AND WASTE	CISA
TRANSPORTATIONS SYSTEMS	TSA & USCG
WATER	EPA

The Education Facilities Subsector covers pre-kindergarten through 12th grade schools, institutions of higher education, and business and trade schools.

CISA Region 8 – Montana Cadre

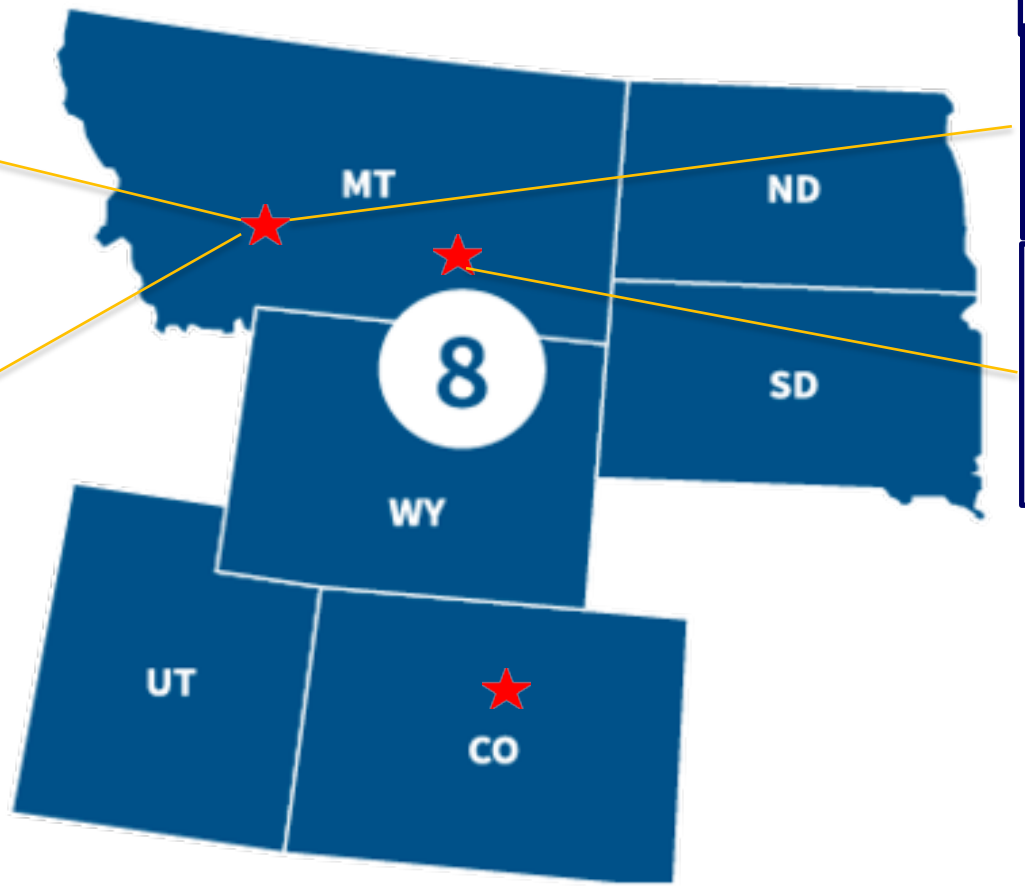
CISA
Cyber Security Advisors

Joe Frohlich

Cybersecurity State Coordinator (CSC)
State & Local Government,
K-12, Higher Education
Helena

Travis Light

Cybersecurity Advisor (CSA)
Critical Infrastructure Focus
Helena



CISA
Protective Security Advisors

Randy Middlebrook

Protective Security Advisor (PSA)
Helena

Albert Mendoza

Protective Security Advisor (PSA)
Billings

CISA School Safety & Cybersecurity for K-12

School Safety

- K-12 Bystander Reporting Toolkit
- SchoolSafety.gov
- K-12 School Security Guide Product Suite

https://www.cisa.gov/topics/physical-security/school-safety

Cybersecurity for K-12

- K-12 Digital Infrastructure Brief: Defensible and Resilient
- Cybersecurity Guidance for K-12 Technology Acquisitions
- Cybersecurity Education and Career Development
- STOP Ransomware

https://www.cisa.gov/K12Cybersecurity

CISA Montana K-12 Cyber Tabletop Exercises

In-Person (with remote option)

Billings: April 23, 2024; 1:00 p.m. 5:00 p.m. MDT

Montana State University City College Campus
Health Science Building, Room 117, 3803 Central Avenue, Billings, MT 59102

Missoula: April 25, 2024; 1:00 p.m. 5:00 p.m. MDT

Missoula College University of Montana, 1205 E Broadway Street, Missoula, MT 59802

Exercise Objectives

- Increase the Montana K12 School Districts' cybersecurity resilience.
- Examine Montana K12 School Districts' information sharing procedures during a cyber incident.
- Examine policies, plans, and procedures of Montana K12 School Districts to respond to a significant cyber incident.
- Increase the understanding of external resources available to Montana K12 School Districts.

Sampling of Voluntary & No-Cost Cybersecurity Offerings

- **Assessments & Evaluations**
  - Strategic
    - Cybersecurity Performance Goals (CPGs)
    - Cyber Resilience Review (CRR™)
    - Cyber Resilience Essentials (CRE)
    - Cyber Infrastructure Survey (CIS)
    - External Dependencies Management (EDM)
    - Cyber Security Evaluation Tool (CSET™)
  - Technical
    - Vulnerability Scanning (CyHy)
    - Web Application Scanning (WAS)
    - Technical Phishing Test (TPT)
    - Remote Penetration Test (RPT)
    - Risk and Vulnerability Assessment (RVA)

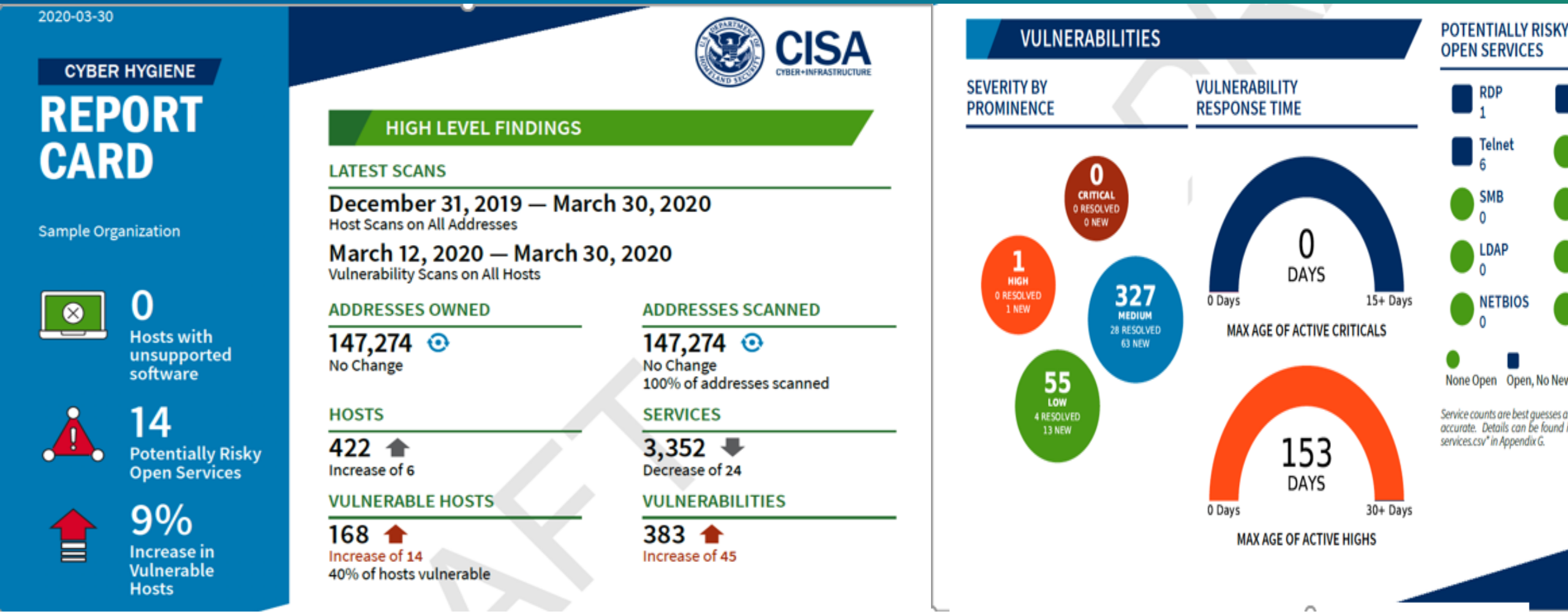
Preparedness Activities

- Tabletop Exercises
- Security Alerts, Tips and other updates (US-Cert)
  - National Cyber Awareness System
  - ICS-Cert
  - Known Exploited Vulnerabilities (KEV)
- Informational Products and Recommended Practices
- Outreach, Work group collaboration
- Cyber Exercises and Workshops
- Cybersecurity Training and Webinars
- Guides and “Playbooks”
- National Cybersecurity Workforce Framework
- October Cybersecurity Awareness Month

Incident Response Assistance

- Incident Coordination
- Malware Analysis

Technical Assessment - Vulnerability Scanning



To start simply email to vulnerability@cisa.dhs.gov with the subject “Requesting Vulnerability Scanning”

Cyber406 strives to improve Montana's cybersecurity defensive posture across private and public sectors by increasing the state's ability to prevent, identify, and eradicate cyber threat vulnerabilities through a systematic approach of Collaboration, Operations, Education, and Research.

https://www.cyber406.org/

Contact Information

CISA Contact Information

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Travis Light Cybersecurity Advisor Region 8 - Montana	travis.light@cisa.dhs.gov 406-894-8374
Randy Middlebrook Protective Security Advisor Region 8 - Montana	randy.middlebrook@cisa.dhs.gov 406-839-1165
Albert Mendoza Protective Security Advisor Region 8 - Montana	albert.mendoza@cisa.dhs.gov 202-702-0798

General Inquiries

iodregionaloperations@cisa.dhs.gov

STATE AND LOCAL CYBERSECURITY GRANT PROGRAM

Burke Honzel - Montana Disaster and Emergency Services (Bureau Chief) & State Administrative Agency

STATE AND LOCAL CYBERSECURITY GRANT PROGRAM

- Infrastructure Investment and Jobs Act (IIJA) amended Homeland Security Act of 2021 and appropriated $1Billion nationally over 4 years
- Montana's Estimated Allocations:

Allocation Year	Match %	Statewide	State – 20% (FED)	Local - 80% (FED)
Year 1	**Waived**	**$2,427,866**	**$485,573**	**$1,942,293**
Year 2	**20%**	**$4,947,036**	**$989,407**	**$3,957,629**
Year 3	30%	$3,650,000	$730,000	$2,920,000
Year 4	40%	$1,200,000	$240,000	$960,000

FUNDING REQUIREMENTS

- 80% must be passed to local jurisdictions/organizations
- 20% may be used for state-level projects
- 5% of the total award is retained by MT DES for Management and Administration (M&A). The entire amount is taken from the state allocation
- 25% of the total funds must be passed through to Rural jurisdictions/organizations
- Funding may be retained by the state on behalf of the locals upon written agreement

GRANT REQUIREMENTS

CYBERSECURITY PLAN

- GOAL
  - Assist State, Local, and Tribal governments with managing and reducing cyber risk
- Objectives
  - Governance and Planning
  - Assessment and Evaluation
  - Mitigation
  - Workforce Development

CYBERSECURITY PLANING COMMITTEE

Roles

- Develop, implement, and revise Cybersecurity Plans
- Approve Cybersecurity Plan
- Assist with determination of effective funding `priorities (i.e., individual projects)

CURRENT CYBER PLANNING COMMITTEE

- **Kevin Gilbertson** - State of Montana Department of Administration (Chief Information Officer) – Chair – Voting Member
- **Chris Santucci**- State of Montana Department of Administration (Chief Information Security Officer) – Vice Chair – Voting Member should Chair be absent
- **Anne Dormady** - MT Division of Criminal Investigation – Voting Member
- **Buel Dickson** - MT National Guard – Voting Member
- **Carol Phillips** - Elder Grove School District & Montana Educational Technologists Association - Voting Member
- **Jason Hecock** - Kalispell Public Schools - Voting Member
- **Jacob Hammersmith** - Billings Clinic - Voting Member
- **Jody Faircloth** - Partnership Health Center - Voting Member
- **Burke Honzel** – Disaster and Emergency Services (Bureau Chief) & State Administrative Agency) –Non-Voting Member
- **Eric Bryson** – Montana Association of Counties (MACo) – Voting Member
- **Victoria Lowe** – Sheridan County (Information Technology Director) – Voting Member
- **Kelly Carrington** – Carbon County (Sheriff's Office) – Voting Member
- **Erika Billiet** – City of Kalispell (Information Technology Director) – Voting Member
- **Neil Cardwell** – City of Belgrade (City Manager) – Voting Member
- **Matt Bunko** – Gallatin County (CIO/CISO) – Voting Member
- **Joe Frohlich** - Cybersecurity and Infrastructure Security Agency (CISA) - Advisor & Non-Voting Member
- **Andy Hanks** – Center for Internet Security - Advisor & Non-Voting Member

PROJECT PRIORITY AREAS

Whole of State Cyber Security Initiatives	Security Strategic Assessments	Security Technical Assessments	Migrate to .GOV domains
Security Awareness	Build a Cybersecurity Workforce	Behavior Based Endpoint Protection	Network Monitoring and Intrusion Detection Systems

PROJECT INFORMATION

BUILD SECURITY AWARENESS

- Basic end user security awareness training to employees
- Up to $3.50 / license

BUILD CYBERSECURITY WORKFORCE

- Professional cybersecurity course - Incident Response or IT Risk Management as part of curriculum
- Up to $4,100 per course – maximum number of courses to be determined
- In person instructor led courses may be an option

PROJECT INFORMATION

BEHAVIOR BASED END POINT PROTECTION (Level 1)

- Protection for connected devices such as desktops, laptops, servers
- Monitors behavior to identify unusual activity

NETWORK MONITORING / INTRUSION DECTION (Level 2)

- Monitors traffic through the network, receives alerts, analysis and provides recommended actions.
- May block traffic that is deemed a threat

REQUIREMENTS AND RECOMMENDATIONS

Jurisdictions receiving funds or services from the SLCGP must:

- Complete the Nationwide Cybersecurity Review (NCSR) Annually
- Utilize the following Cyber Hygiene services:
  - Web Application Scanning
  - Vulnerability Scanning

Recommended

- Become a member in the Multi-State Information Sharing and Analysis Center
- Utilize free CISA services and tools
- Perform a CISA assessment

NEXT STEPS – ESTIMATED TIMELINE

- CISA/FEMA approved the State Plan on November 28, 2023
- FY23 SLCGP Awarded on December 21, 2023 Cost share waiver request was denied
- State Guidance Completed: April 1
- Estimated Application Period: April 15th to June 7th
- Project submission to FEMA – June 30th
- Projected Approval: August 1st

NEXT STEPS – APPLICATION PROCESS

- Applications will be completed through MT DES
  - Information will be placed on https://des.mt.gov/
- Jurisdictions to submit one consolidated application
- Jurisdictions will need to prioritize projects
- Not all applications are guaranteed to be awarded due to funding limitations

MS-ISAC®
Multi-State Information Sharing & Analysis Center®

MASS/METAtechED Conference 2024

Andy Hanks

Senior Director, CIS

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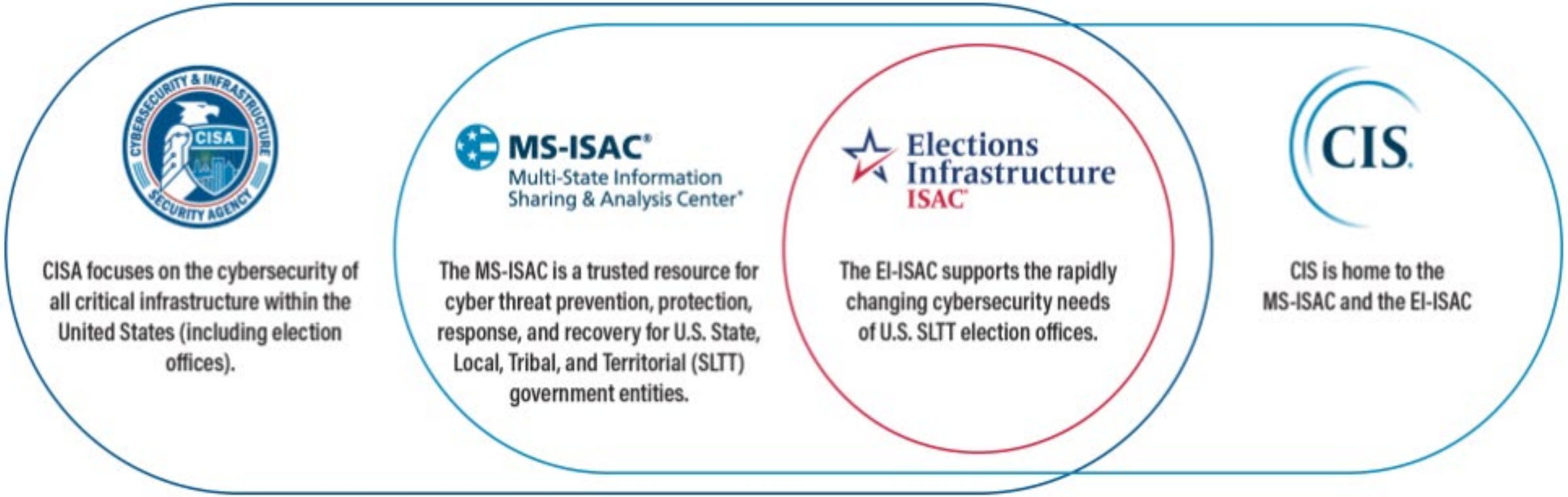
MS/EI-ISAC, CIS and CISA

Missions at a glance



MS-ISAC: Focused Visibility on K12 Sector

K12 Report and Joint #StopRansomware Guide

https://learn.cisecurity.org/2023-k12-report

https://www.cisa.gov/resources-tools/resources/stopransomware-guide

Utilize Free MS-ISAC Services & Resources

https://learn.cisecurity.org/ms-isac-registration

Cyber Threat Intelligence

- Cyber Alerts & Advisories
- Quarterly Threat Report
- Regular IOCs
- White Papers
- Cyber Threat Briefings
- Real-Time Intelligence Feeds

Cybersecurity Services

- 24x7x365 Security Operations Center (SOC)
- ISAC Threat Notification Service (IP & Domain Monitoring)
- Malicious Domain Blocking & Reporting (MDBR)
- *NEW – Email Protection Service*

Cyber Framework & Best Practices

- Nationwide Cybersecurity Review (NCSR)
- CIS SecureSuite Membership
  - *Tools to implement the CIS Critical Security Controls and CIS Benchmarks*

Other Member Resources

- MS-ISAC Webinars
- MS-ISAC Working Groups
- Homeland Security Information Network (HSIN)
- CIS CyberMarket
- Virtual Service Reviews

24x7x365 Security Operations Center

Free to All Public K12 Organizations

Support

Network Monitoring Services
+
Research and Analysis

Analysis & Monitoring

Threats, Vulnerabilities
+
Attacks

Reporting

Cyber Alerts & Advisories

Web Defacements

Account Compromises

To report an incident or request assistance:

Phone: 1-866-787-4722

Email: soc@cisecurity.org

How to access MS-ISAC resources

Register for MS-ISAC Membership	https://learn.cisecurity.org/ms-isac-registration
MS-ISAC 24x7 Security Operations Center	SOC@cisecurity.org | 1-866-787-4722
Schedule a Virtual Services Review	info@cisecurity.org

MS-ISAC®
Multi-State Information Sharing & Analysis Center®

Cybersecurity Advisory Services Program

Cybersecurity Advisory Services Program

Service Descriptions

Available Now

- **Community Advisory:** One or more advisory meetings with multiple members about a single cyber topic specific to their community.

Available Now

- **Member Advisory:** One or more advisory meetings with a single member about multiple cyber topics specific to their environment.

Available April 2024

- **Strategic Advisory:** Ten weeks of advisory meetings with a single member to develop a security strategic plan.

Available May 2024

- **Deep Dive:** Comprehensive webinars about a single cyber topic (CIS Critical Security Controls, current events, hot topics, etc.).

Available June 2024

- **Cybersecurity Consulting:** Eight weeks of technical consulting meetings with one or more members to implement security controls.

Cybersecurity Advisory Services Program

Service Profiles

Community Advisory

- 60 mins per engagement
- Interactive
- Multiple members
- Single topic

Member Advisory

- 60 mins per engagement
- Interactive
- Single member
- Multiple topics

Strategic Advisory

- 100 hours over 10 weeks
- Interactive
- Single member
- To develop a Cybersecurity Strategic Plan

Deep Dive

- 60 mins per webinar
- On demand
- Multiple members
- Critical controls, current events, hot topics, etc.

Cyber Consulting

- 80 hours over 8 weeks
- Interactive
- One or more members
- To implement security controls

Cybersecurity Advisory Services Program

Availability

- **Must be an MS-ISAC and EI-ISAC Member to request a service**
- **Priority given to cyber-underserved Members**
- **Priority given to Members hosting systems for high priority sectors:**
  - SLTT Elections
  - SLTT Health care
  - SLTT K-12
  - SLTT Water and Wastewater Systems
- **Requests can be submitted at: https://www.cisecurity.org/ms-isac/services/cybersecurity-advisory-services-program**

MS-ISAC®
Multi-State Information Sharing & Analysis Center®

Thank you!

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Questions or Comments?

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March 8, 2024