

**2021**

# Nationwide Cybersecurity Review

**K-12 Peer Group**

197 Participant Organizations



# K-12 Peer Group

The MS-ISAC measured the areas of highest and lowest cybersecurity maturity, as reported from the 2021 Nationwide Cybersecurity Review (NCSR) assessment. This resource is based on the data from the 2021 NCSR, which was open for data collection between 10/1/2021 and 2/28/2022. It is our aim to call attention to these areas of interest, and most importantly, to call attention to resources, guidance, and services that may serve to increase the maturity of those lowest-scoring areas. To better inform the community of where to direct activity and resources for cybersecurity maturity, it is crucial we increase K-12 participation in the NCSR to get a more representative view of the community’s cybersecurity trends. This document is based on aggregated data from all organizations in this peer group and may not illustrate one specific organization’s particular areas of lowest maturity. We recommend an individual organization use this guidance in the following steps:

- 1 Determine your lowest-scoring NIST Cybersecurity Framework (CSF) categories based on your NCSR scores. Start by logging in to the NCSR platform and reviewing your organization’s results in the “Report Portal.” The report named “Current NCSR Results–Detail View” is a good starting point. Utilize the [NCSR General User Guide](#) to navigate to this reporting”
- 2 Leverage this document to determine if your lowest scoring areas align with those of the elections peer group reported below.
- 3 Consult the [MS-ISAC Cybersecurity Resources Guide](#) or the report titled “Cybersecurity Resources & NCSR Results Mapping” in the NCSR platform to see what no-cost resources are available.
- 4 Note, all resources and reporting do not need to be used at once. This document is meant to help prioritize an organization’s findings and plan cybersecurity improvements.

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Highest Maturity Level NIST CSF Categories	Lowest Maturity Level NIST CSF Categories
<b>Protect:</b> Identity Management and Access Control	<b>Identify:</b> Supply Chain Risk Management
<b>Protect:</b> Awareness and Training	<b>Identify:</b> Risk Management Strategy
<b>Protect:</b> Maintenance	<b>Recover:</b> Improvements
<b>Respond:</b> Mitigation	<b>Detect:</b> Detection Process
<b>Identify:</b> Business Environment	<b>Detect:</b> Anomalies and Events

For additional information on this NCSR Snapshot or the NCSR overall, please contact [NCSR@cisecurity.org](mailto:NCSR@cisecurity.org).

The following resources are available to assist with the lower-scoring categories of the K-12 Peer Group overall:



### **Identify: Supply Chain Risk Management**

#### **MS-ISAC Developed Policy Templates:**

- [Identification and Authentication Policy](#)
- [Security Assessment and Authorization Policy](#)
- [System and Services Acquisition Policy](#)

#### **CIS Developed Guides:**

While these guides are focused on the elections community, their principles can be applied within any organization.

- [CIS Technology Procurement Guide](#)
- [Managing Cybersecurity Supply Chain Risks in Election Technology: A Guide for Election Technology Providers](#)

#### **MS-ISAC and Metrics Workgroup Developed Guide:**

- [Supply Chain Cybersecurity Resources Guide](#)

#### **Federal Guidance:**

- [DHS CISA Supply Chain Risk Management Guidance](#)



### **Identify: Risk Management Strategy**

#### **MS-ISAC Developed Policy Template:**

- [Information Security Policy](#)
- [Risk Assessment Policy](#)



### **Recover: Improvements**

#### **MS-ISAC Developed Policy Templates:**

- [Computer Security Threat Response Policy](#)
- [Contingency Planning Policy](#)
- [Cyber Incident Response Standard](#)
- [Incident Response Policy](#)

#### **MS-ISAC Business Resiliency Workgroup Resources:**

Contact [info@cisecurity.org](mailto:info@cisecurity.org) for access to these resources:

- [Incident Response Plan Templates](#)
- [After Action Report Templates](#)
- [“Lessons Learned” Guidance](#)
- [Incident Response & Disaster Recovery Table Top Exercises](#)

#### **Data Backup Tools and Resources**

Descriptions courtesy of the CIS [“Microsoft Windows 10 Cyber Hygiene Guide:”](#)

- [Microsoft Backup and Restore](#): A backup utility tool installed on Microsoft operating systems.
- [EaseUS](#): This free program can be configured to take system images.
- [Amanda Network Backup](#): Free, open source backup tool.
- [Bacula](#): Open source network backup and recovery solution.
- [Carnegie Mellon](#): The university makes their [Incident Response Plan](#) available, that can be used as a resource for others.
- [State of Oregon](#): The Oregon State Government provides a template for an [Incident Response Plan](#).



### Detect: Detection Process

#### MS-ISAC Developed Policy Templates:

- [Computer Security Threat Response Policy](#)
- [Information Security Risk Management Standard](#)
- [Cyber Incident Response Standard](#)
- [Incident Response Policy](#)



### Detect: Anomalies and Events

#### MS-ISAC Developed Policy Templates:

- [Auditing and Accountability Standard](#)
- [Security Logging Standard](#)
- [System and Information Integrity Policy](#)
- [Vulnerability Scanning Standard](#)

#### Additional Open Source Resources:

- [Snort](#)
- [Suricata](#)
- [OSSIM](#)
- [Logstash](#)
- [Graylog](#)

## Additional Information

### [Nationwide Cybersecurity Review \(NCSR\) Webpage](#)

Information on the no-cost, annual self-assessment from the MS-ISAC, as well as associated resources, is available on this page.



### [Full CIS “Microsoft Windows 10 Cyber Hygiene Guide”](#)

A number of the listed resources are included within this guide, courtesy of the CIS Controls team.

### [CIS SecureSuite Membership](#)

All state, local, tribal, and territorial organizations can access CIS SecureSuite membership at no cost. This includes the CIS Controls, the CIS Benchmarks, and CIS-CAT Pro Assessor for an automated comparison of your configurations against CIS secure configuration Benchmarks. The CIS Controls provide security best practices along with guidance on how to prioritize the controls, known as the CIS Implementation Groups (IGs). The CIS Benchmarks were created from the global community of cybersecurity experts and have more than 100 configuration guidelines to safeguard systems against today’s evolving cyber threats. The CIS-CAT Pro combines the security guidance of the CIS Controls and CIS Benchmarks into a single assessment tool.



### [Federal Virtual Training Environment \(FedVTE\) No-Cost Online Training](#)

Registration and course information.



### [No or Low-cost CIS & MS-ISAC Services](#)

Relevant services include [Albert Network Monitoring and Management](#), [CIS Endpoint Security Services \(ESS\)](#), and [Malicious Domain Blocking and Reporting \(MDBR\)](#)

