

Topics

- What is cybersecurity?
- What we have done so far?
- What's next?



What is cybersecurity?

Definition from CISA (US Department of Homeland Security – Cybersecurity & Infrastructure Security Agency)

- The art of protecting networks, devices, and data from unauthorized access or criminal use
- The practice of ensuring confidentiality, integrity, and availability of information



What is an effective cybersecurity program?

- Senior Management provides clear direction on how to address cybersecurity.
- 2. All departments identify their valuable information assets and the technology used to handle it.
- 3. Cybersecurity staff assesses the risk of each information asset and develops policies to encourage secure use.
- 4. IS staff implement reasonable controls to automate security.



What we have done so far?



Outside cybersecurity experts

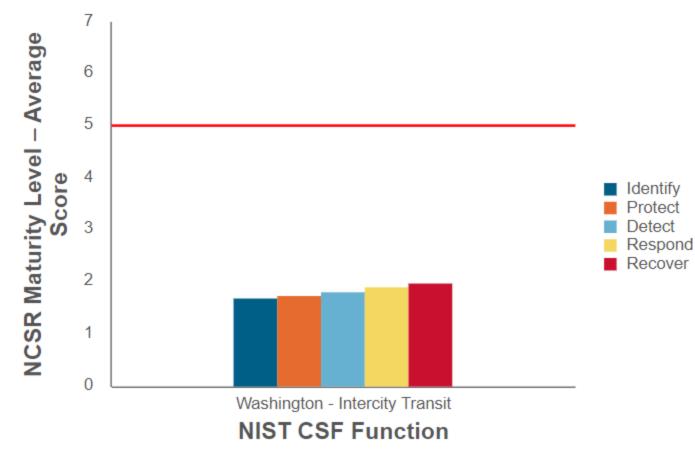
- NCSR (Nationwide Cybersecurity Review)
 - Sponsored by CISA, focused on state and local agencies
 - Based on the Cybersecurity Framework from the National Institute of Standards and Technology (NIST CSF)
- Aon CyQu (Cyber Quotient Evaluation)
 - Leading cybersecurity risk management company
 - Engagement coordinated through WSTIP







NCSR Result: 1.8/7



The red line indicates an average score of 5, which is designated as the recommended minimum maturity level

7 Optimized Your organization is executing the formally documented policies, sta Implementation is tested, verified continued effectiveness.	• •
Tested and Verified Your organization is executing the formally documented policies, sta	andards, and procedures.
Your organization has an activity of documented policies, standards, organization is in the process of in documentation to a formal security.	and/or procedures. Your
Partially Documented Standards and/or Procedures Your organization has a formal population process of developing documents support the policy.	olicy in place and has begun the ed standards and/or procedures to
Occumented Your organization has a formal position approved by senior management.	
Activities and processes may be stechnologies may be available to they are undocumented and/or no management.	achieve this objective, but
1 Not Performed Activities, processes, and technology the referenced objective.	logies are not in place to achieve

CYBER HYGIENE

REPORT CARD

Intercity Transit, WA



Hosts with unsupported software



Potentially Risky Open Services



No Change in Vulnerable Hosts



HIGH LEVEL FINDINGS

LATEST SCANS

April 22, 2021 — April 25, 2021 Host Scans on All Addresses

April 22, 2021 — April 25, 2021 Vulnerability Scans on All Hosts

ADDRESSES OWNED



No Change

HOSTS



No Change

VULNERABLE HOSTS

10 💿

No Change 59% of hosts vulnerable

ADDRESSES SCANNED



No Change

100% of addresses scanned

SERVICES





No Change

VULNERABILITIES

76 😶

No Change

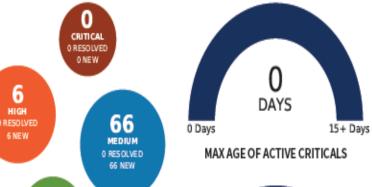
VULNERABILITIES

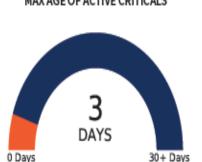
LOW

0 RESOLVED

SEVERITY BY PROMINENCE

VULNERABILITY RESPONSE TIME





MAX AGE OF ACTIVE HIGHS

POTENTIALLY RISKY **OPEN SERVICES**



Service counts are best guesses and may not be 100% accurate. Details can be found in "potentially-risky-services.csv" in Appendix G.



CYBER HYGIENE

REPORT CARD

Intercity Transit, WA



Hosts with unsupported software



Potentially Risky Open Services



0% No Change in Vulnerable Hosts



HIGH LEVEL FINDINGS

LATEST SCANS

February 1, 2023 — April 22, 2023

Host Scans on All Addresses

April 19, 2023 — April 22, 2023

Vulnerability Scans on All Hosts

ADDRESSES OWNED



No Change

HOSTS



No Change

VULNERABLE HOSTS



No Change 0% of hosts vulnerable

ADDRESSES SCANNED





No Change 100% of addresses scanned

SERVICES



No Change

VULNERABILITIES



No Change

VULNERABILITIES

SEVERITY BY **PROMINENCE**

VULNERABILITY RESPONSE TIME



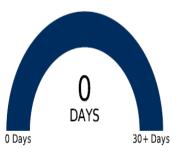






DAYS 0 Days 15 + Days

MAX AGE OF ACTIVE CRITICALS



MAX AGE OF ACTIVE HIGHS

POTENTIALLY RISKY OPEN SERVICES



























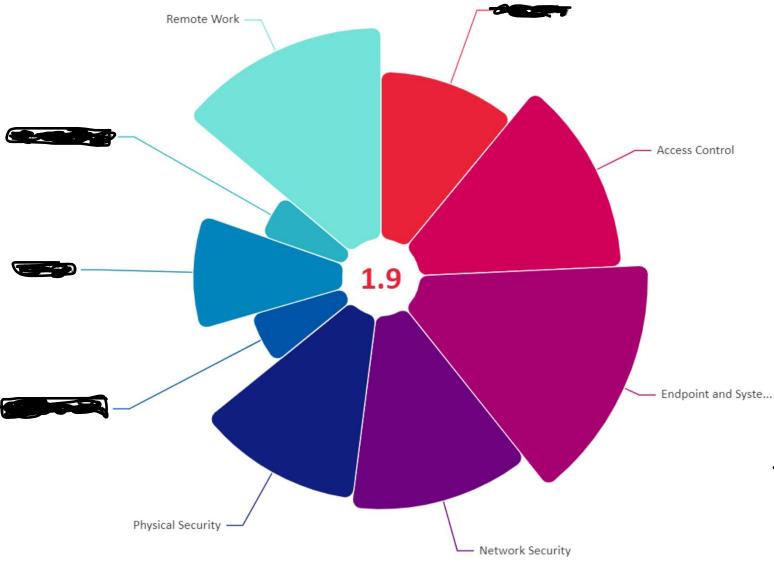
Service counts are best guesses and may not be 100% accurate. Details can be found in "potentially-riskyservices.csv" in Appendix G.



WSTIP Pilot Agency



CyQu Result: 1.9/4



Results Key Index



Analysis of evaluations

NCSR

- We cannot score higher than 2 in any area without an organizationally adopted cybersecurity plan and dependent policies.
- This masks the effect of best effort work done informally by IS staff to secure our infrastructure.

Aon CyQu

- Focus on avoiding risk and preparation to responding to incidents
- We cannot adequately prepare to respond to incidents without an organizationally adopted cybersecurity plan.



New Policy Encacted! (PTACP)

MISSION STATEMENT

Cybersecurity is a core business function of Intercity Transit ("the agency"). The agency must protect the *confidentiality, integrity, and availability* of its information systems to support continuous safe and reliable operation of critical transportation infrastructure and foster a culture of trust and accountability inside and outside the agency. Starting with the General Manager, all employees are collectively responsible for the agency's cyber hygiene and the success of its cyber defenses. This Public Transportation Agency Cybersecurity Plan formalizes the agency's commitment to:

- Regularly assess and actively manage cybersecurity risks
- Comply with legal and regulatory cybersecurity and privacy requirements
- Strategically implement cybersecurity best practices recognized by government and industry
- · Provide adequate skilled workers and resource allocation to execute this plan
- · Promote employee cybersecurity awareness through regular training and communication
- Integrate cybersecurity into the job responsibilities of all employees
- Hold each employee accountable for secure and appropriate use of information systems
- Monitor information systems for vulnerabilities and indicators of compromise
- Identify and respond to cybersecurity incidents and report breaches
- Continually improve cybersecurity posture through management processes that enforce policies and measure their effectiveness
- · Ensure vendor supply chains meet industry-recognized cybersecurity best practices

Thereby enact this Public Transportation Agency Cybers	security Plan.	
Ann Freeman Manzanares	2/15/2023	
Ann Freeman-Manzanares General Manager		



New Policy Encacted! (PTACP)

DOCUMENT HISTORY

- 2021-03-05 Information Management Policy draft (2021.1) created by Shem Sargent, Intercity Transit Information Systems Security Analyst.
- 2021-04-23 First Draft (2021.1) completed by Shem Sargent.
- 2021-05-10 Second Draft (2022.2) completed by Shem Sargent.
- 2021-05-17 Draft policy submitted to SMT.
- 2021-07-27 Third draft (2021.3) started by Shem Sargent. Remodeling document to align with form and intent of similar FTA Public Transportation Agency Safety Plan (PTASP, 49 CFR 673).
- 2022-03-08 Fourth draft (2021.4) started by Shem Sargent to add KPIs and superseded agency policies sections.
- 2022-04-12 Replaced Category 3 guidance with reference to agency Public Records Exclusion Key.
- 2022-04-15 Fourth draft completed by Shem Sargent. Edits finalized for legal review. Version number changed to 2022.1
- 2022-05-23 Legal review and edits completed by Jeffrey S. Myers of Law, Lyman, Daniel, Kamerrer & Bogdanovich, P.S.
- 2022-06-01 Version 2022.1 incorporating legal review completed by Shem Sargent and submitted to SMT for review.
- 2023-01-19 SMT review completed, and comments returned for revision.
- 2023-01-20 Version incremented to 2023.1; revision started by Shem Sargent, Cybersecurity Program Manager, and Jason Aguero, CIO
- 2023-02-13 Final review with CIO and delegated members of SMT. Version incremented to 2023.2



Table Top Exercise

- Conducted in March 2023
- On-site facilitation by the Department of Homeland Security
- Focus was on response and process identification during a simulated cyber incident
- Third part observer for feedback Cybersecurity Experts
- Next steps In Process



What's Next



Questions?

