



Community

Confidentiality

Candor

Commitment

Supplier Sharing Call

October 26, 2022

Open Distribution for Supply Chain Materials

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Please Participate

- Raise your hand
 - We will unmute you
 - Make sure you are identified in the participant list
- Put a question or comment in the chat
- Put a question or comment in the Q&A

If you put a question or comment in the chat or Q&A but want to remain anonymous, please open with your request



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Opening Remarks

Tom Galloway, NATF President and CEO

Purpose of the sharing calls

Chris Fitzhugh, Siemens Energy

- Provide an opportunity for suppliers to talk about cyber security issues and practices ranging from
 - How to set up a program, to
 - In-depth discussions on a specific technical challenge
- Leverage knowledge from lessons learned
- Share information
- Calls will be limited to suppliers

Contributing Organizations

Chris Fitzhugh, Siemens Energy

- Hitachi Energy
- International Society of Automation (ISA)
- National Electrical Manufacturers Association (NEMA)
- Schneider Electric
- Schweitzer Engineering Labs (SEL)
- Siemens Energy
- US Chamber of Commerce
- With support from:
 - Nebraska Public Power District
 - Southern Company
 - North American Transmission Forum (NATF)

Today's Agenda and Presenters

Chris Fitzhugh, Siemens Energy

- Comments - Jennifer Couch (Southern Co)
- Future calls – Steve Griffith (NEMA)
- Where we're at and what you can do today – Frank Harrill (SEL)
- Future Topics – Frank Harrill (SEL)

Participants Available for Discussion/Questions

- Andre Ristaino (ISA)
- Steve Griffith (NEMA)
- Mike Pyle (Schneider Electric)
- Andy Turke (Siemens)
- Chris Fitzhugh (Siemens Energy)
- Frank Harrill (SEL)
- Heath Knakmuhs (US Chamber of Commerce)
- Jon Terrell (Hitachi Energy)

Please remember to either raise your hand to ask a question or you can put your question into the chat or Q&A.

Comments from a Customer

Jennifer Couch, Southern Company

- View from the customer
- Value of the partnership
- We are in this together
- We're all suppliers to someone

Future Calls

Steve Griffith, NEMA

- Currently Planned for approximately every 2 months from 1-2:30pm ET
 - Oct 26, 2022
 - Dec 7, 2022
 - Jan 25, 2023
 - March 22, 2023
 - May 24, 2023
 - July 19, 2023
 - Sept 27, 2023
 - Nov 29, 2023
- Could keep a main topic for the call to 1 hour with a special group break-out (e.g., small suppliers) for the last half hour
 - There will be a poll at the end of the call
- Calls are not recorded
- Slides will be available

slido



Join at slido.com
#2702596

ⓘ Start presenting to display the joining instructions on this slide.

slido



What is your end-use market?

ⓘ Start presenting to display the poll results on this slide.

Open Distribution for Supply Chain Materials

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What is the annual revenue of your company?

ⓘ Start presenting to display the poll results on this slide.

slido



How many employees does your company have?

ⓘ Start presenting to display the poll results on this slide.

slido



In what country(ies) does your company sell products or provide services?

ⓘ Start presenting to display the poll results on this slide.

Managing Cybersecurity Risk

Frank Harrill, SEL

OCTOBER 2022

JOINT CYBERSECURITY ADVISORY

Co-Authored by:

TLP:WHITE

Product ID: AA22-277A

October 4, 2022



Impacket and Exfiltration Tool Used to Steal Sensitive Information from Defense Industrial Base Organization

SUMMARY

From November 2021 through January 2022, the Cybersecurity and Infrastructure Security Agency (CISA) responded to advanced persistent threat (APT) activity on a Defense Industrial Base (DIB) Sector organization's enterprise network. During incident response activities, CISA uncovered that likely multiple APT groups compromised the organization's network, and some APT actors had long-term access to the environment. APT actors used an open-source toolkit called Impacket to gain their foothold within the environment and further compromise the network, and also used a custom data exfiltration tool, CovalentStealer, to steal the victim's sensitive data.

Actions to Help Protect Against APT Cyber Activity.

- Enforce multifactor authentication (MFA) on all user accounts.
- Implement network segmentation to separate network segments based on role and functionality.
- Update software, including operating systems, applications, and firmware, on network assets.
- Audit account usage.

This joint Cybersecurity Advisory (CSA) provides APT actors tactics, techniques, and procedures (TTPs) and indicators of compromise (IOCs) identified during the incident response activities by CISA and a third-party incident response organization. The CSA includes detection and mitigation actions to help organizations detect and prevent related APT activity. CISA, the Federal Bureau of Investigation (FBI), and the National Security Agency (NSA) recommend DIB sector and other critical infrastructure organizations implement the mitigations in this CSA to ensure they are managing and reducing the impact of cyber threats to their networks.

All organizations should report incidents and anomalous activity to CISA's 24/7 Operations Center at report@cisa.gov or (888) 282-0870 and/or to FBI via your [local FBI field office](#) or FBI's 24/7 CyWatch at (855) 292-3937 or CyWatch@fbi.gov. When available, please include the following information regarding the incident: date, time, and location of the incident; type of activity; number of people affected; type of equipment used for the activity; the name of the submitting company or organization; and a designated point of contact. For NSA client requirements or general cybersecurity inquiries, contact Cybersecurity_Requests@nsa.gov.

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TLP:WHITE

APRIL 2022

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JOINT CYBERSECURITY ADVISORY

Co-Authored by: TLP:WHITE Product ID: AA22-110A April 20, 2022

Russian State-Sponsored and Criminal Cyber Threats to Critical Infrastructure

SUMMARY

The cybersecurity authorities of the United States^{[1][2][3]}, Australia^[4], Canada^[5], New Zealand^[6], and the United Kingdom^{[7][8]} are releasing this joint Cybersecurity Advisory (CSA). The intent of this joint CSA is to warn organizations that Russia's invasion of Ukraine could expose organizations both within and beyond the region to increased [malicious cyber activity](#). This activity may occur as a response to the unprecedented economic costs imposed on Russia as well as materiel support provided by the United States and U.S. allies and partners.

Evolving intelligence indicates that the Russian government is exploring options for potential cyberattacks (see the [U.S. organizations: to report suspicious or criminal activity related to information found in this Joint Cybersecurity Advisory](#), contact CISA's 24/7 Operations Center at report@cisa.gov or (888) 282-0870 and/or to the FBI via your local FBI field office at www.fbi.gov/contact-us/field-offices, or the FBI's 24/7 Cyber Watch (CyWatch) at (855) 292-3937 or by email at CyWatch@fbi.gov. When available, please include the following information regarding the incident: date, time, and location of the incident; type of activity; number of people affected; type of equipment used for the activity; the name of the submitting company or organization; and a designated point of contact. For NSA client requirements or general cybersecurity inquiries, contact the Cybersecurity Requirements Center at 410-854-4200 or Cybersecurity_Requests@nsa.gov. Australian organizations: visit cyber.gov.au/acsc/report or call 1300 292 371 (1300 CYBER 1) to report cybersecurity incidents and access alerts and advisories. Canadian organizations: report incidents by emailing CCCS@cyber.gc.ca. New Zealand organizations: report cyber security incidents to nscincidents@ncsc.govt.nz or call 04 498 7654. United Kingdom organizations: report a significant cyber security incident: nsc.govt.nz/report-an-incident (monitored 24 hours) or, for urgent assistance, call 03000 200 973.

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TLP: WHITE

MAY 2022

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JOINT CYBERSECURITY ADVISORY

Co-authored by: Product ID: AA22-131A May 11, 2022

Protecting Against Cyber Threats to Managed Service Providers and their Customers

SUMMARY

The cybersecurity authorities of the United Kingdom ([NCSC-UK](#)), Australia ([ACSC](#)), Canada ([CCCS](#)), New Zealand ([NCSC-NZ](#)), and the United States ([CISA](#)), ([NSA](#)), ([FBI](#)) are aware of recent reports that observe an increase in malicious cyber activity targeting managed service providers (MSPs) and expect this trend to continue.^[1] This joint Cybersecurity Advisory (CSA) provides actions MSPs and their customers can take to reduce their risk of falling victim to a cyber intrusion.


This advisory describes cybersecurity best practices for information and communications technology (ICT) services and functions, focusing on guidance that enables transparent discussions between MSPs and their customers on securing sensitive data. Organizations should implement these guidelines as appropriate to their unique environments, in accordance with their specific security needs, and in compliance with applicable regulations. MSP customers should verify that the contractual arrangements with their provider include cybersecurity measures in line with their particular security requirements.

The guidance provided in this advisory is specifically tailored for both MSPs and their customers and is the result of a collaborative effort from the United Kingdom National Cyber Security Centre (NCSC-UK), the Australian Cyber Security Centre (ACSC), the Canadian Centre for Cyber Security (CCCS), the New Zealand National Cyber Security Centre (NCSC-NZ), the United States' Cybersecurity and Infrastructure Security Agency (CISA), National Security Agency (NSA), and Federal Bureau of Investigation (FBI) with contributions from industry members of the [Joint Cyber Defense Collaborative](#)

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TLP:WHITE

MARCH 2022



National Security Agency
Cybersecurity Technical Report

**Network Infrastructure
Security Guidance**

March 2022

PP-22-0266
Version 1.0

APRIL 2022

**JOINT
CYBERSECURITY
ADVISORY**

Co-Authored by:  **TLP:WHITE** Product ID: AA22-103A
April 13, 2022

APT Cyber Tools Targeting ICS/SCADA Devices

SUMMARY

The Department of Energy (DOE), the Cybersecurity and Infrastructure Security Agency (CISA), the National Security Agency (NSA), and the Federal Bureau of Investigation (FBI) are releasing this joint Cybersecurity Advisory (CSA) to warn that certain advanced persistent threat (APT) actors have exhibited the capability to gain full system access to multiple industrial control system (ICS)/supervisory control and data acquisition (SCADA) devices, including:

- Schneider Electric programmable logic controllers (PLCs),
- OMRON Sysmac NEX PLCs, and
- Open Platform Communications Unified Architecture (OPC UA) servers.

The APT actors have developed custom-made tools for targeting ICS/SCADA devices. The tools enable them to scan for, compromise, and control affected devices once they have established initial access to the operational technology (OT) network. Additionally, the actors can compromise Windows-based engineering workstations, which may be present in information technology (IT) or OT environments, using an exploit that compromises an ASRock motherboard driver with known vulnerabilities. By compromising

Actions to Take Today to Protect ICS/SCADA Devices:

- Enforce multifactor authentication for all remote access to ICS networks and devices whenever possible.
- Change all passwords to ICS/SCADA devices and systems on a consistent schedule, especially all default passwords, to device-unique strong passwords to mitigate password brute force attacks and to give defender monitoring systems opportunities to detect common attacks.
- Leverage a properly installed continuous OT monitoring solution to log and alert on malicious indicators and behaviors.



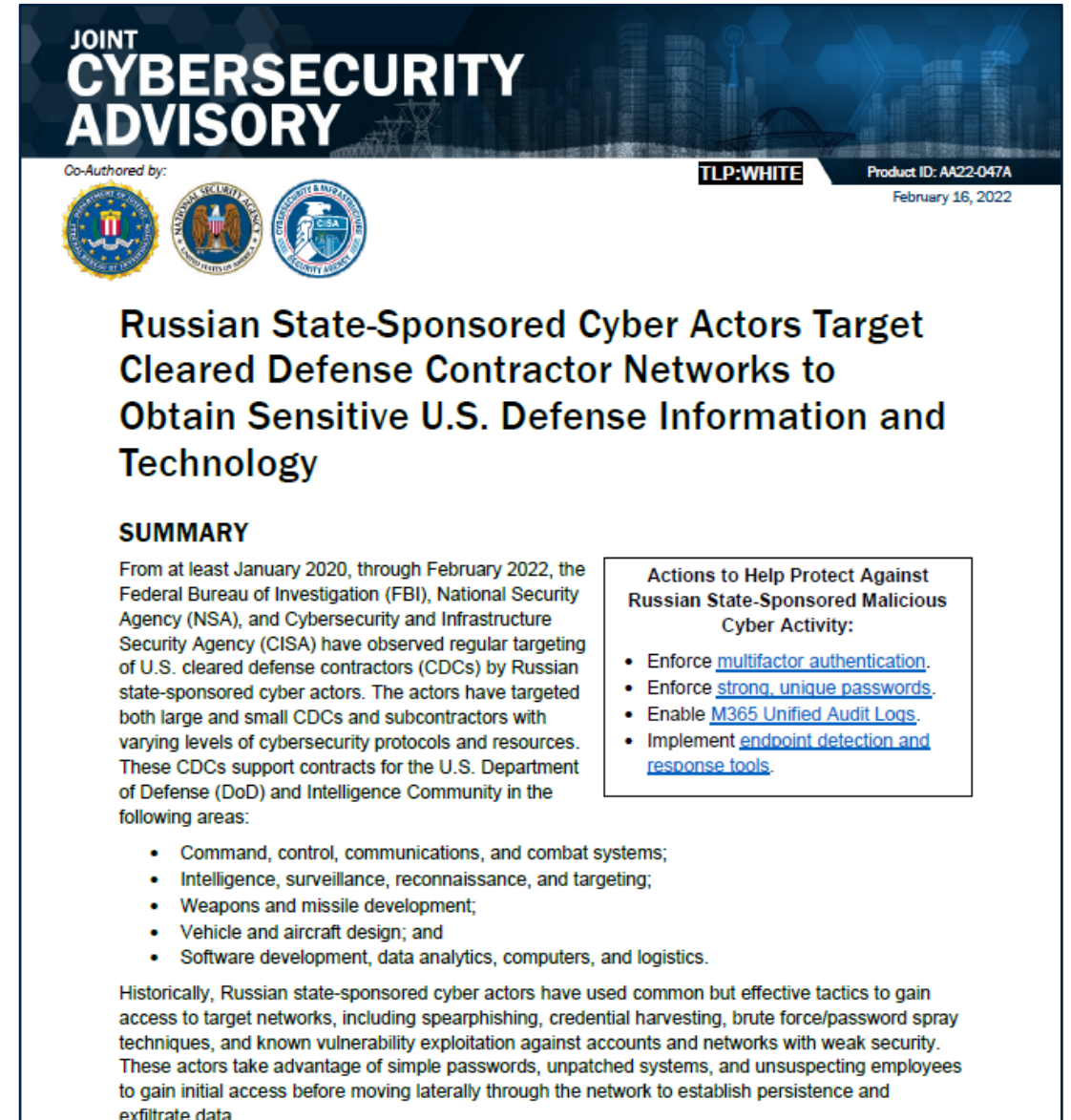
Canada
Canadian Centre for
Cyber Security

Home → Publications
→ Cyber threat bulletin: Cyber Centre urges Canadian critical infrastructure operators to raise aware...

Cyber threat bulletin: Cyber Centre urges Canadian critical infrastructure operators to raise awareness and take mitigations against known Russian-backed cyber threat activity




The Canadian Centre for Cyber Security encourages the Canadian cybersecurity community—especially critical infrastructure network defenders—to bolster their awareness of and protection against Russian state-sponsored cyber threats. The Cyber Centre joins our partners in [the US](#) and [the UK](#) in recommending proactive network monitoring and mitigations.



JOINT CYBERSECURITY ADVISORY

Co-Authored by: **TLP:WHITE** Product ID: AA22-047A
February 16, 2022



Russian State-Sponsored Cyber Actors Target Cleared Defense Contractor Networks to Obtain Sensitive U.S. Defense Information and Technology

SUMMARY

From at least January 2020, through February 2022, the Federal Bureau of Investigation (FBI), National Security Agency (NSA), and Cybersecurity and Infrastructure Security Agency (CISA) have observed regular targeting of U.S. cleared defense contractors (CDCs) by Russian state-sponsored cyber actors. The actors have targeted both large and small CDCs and subcontractors with varying levels of cybersecurity protocols and resources. These CDCs support contracts for the U.S. Department of Defense (DoD) and Intelligence Community in the following areas:

- Command, control, communications, and combat systems;
- Intelligence, surveillance, reconnaissance, and targeting;
- Weapons and missile development;
- Vehicle and aircraft design; and
- Software development, data analytics, computers, and logistics.

Historically, Russian state-sponsored cyber actors have used common but effective tactics to gain access to target networks, including spearphishing, credential harvesting, brute force/password spray techniques, and known vulnerability exploitation against accounts and networks with weak security. These actors take advantage of simple passwords, unpatched systems, and unsuspecting employees to gain initial access before moving laterally through the network to establish persistence and exfiltrate data.

Actions to Help Protect Against Russian State-Sponsored Malicious Cyber Activity:

- Enforce [multifactor authentication](#).
- Enforce [strong, unique passwords](#).
- Enable [M365 Unified Audit Logs](#).
- Implement [endpoint detection and response tools](#).

JANUARY 2022

JULY 2021

JOINT CYBERSECURITY ADVISORY

Co-Authored by: **TLP:WHITE** Product ID: A22-011A
January 11, 2022



Understanding and Mitigating Russian State-Sponsored Cyber Threats to U.S. Critical Infrastructure

SUMMARY

This joint Cybersecurity Advisory (CSA)—authored by the Cybersecurity and Infrastructure Security Agency (CISA), Federal Bureau of Investigation (FBI), and National Security Agency (NSA)—is part of our continuing cybersecurity mission to warn organizations of cyber threats and help the cybersecurity community reduce the risk presented by these threats. This CSA provides an overview of Russian state-sponsored cyber operations; commonly observed tactics, techniques, and procedures (TTPs); detection actions; incident response guidance; and mitigations. This overview is intended to help the cybersecurity community reduce the risk presented by these threats.

CISA, the FBI, and NSA encourage the cybersecurity community—especially critical infrastructure network defenders—to adopt a heightened state of awareness and to conduct proactive threat hunting, as outlined in the [Detection](#) section. Additionally, CISA, the FBI, and NSA strongly urge network defenders to implement the recommendations listed below and detailed in the [Mitigations](#) section. These mitigations will help organizations improve their functional resilience by reducing the risk of compromise or severe business degradation.

Actions critical infrastructure organizations should implement to immediately strengthen their cyber posture.

- Patch all systems. Prioritize patching [known exploited vulnerabilities](#).
- Implement multi-factor authentication.
- Use antivirus software.
- Develop internal contact lists and surge support.



Cybersecurity Advisory

Chinese State-Sponsored Cyber Operations: Observed TTPs

Summary

The National Security Agency, Cybersecurity and Infrastructure Security Agency (CISA), and Federal Bureau of Investigation (FBI) assess that People's Republic of China state-sponsored malicious cyber activity is a major threat to U.S. and Allied cyberspace assets. Chinese state-sponsored cyber actors aggressively target U.S. and allied political, economic, military, educational, and critical infrastructure (CI) personnel and organizations to steal sensitive data, critical and emerging key technologies, intellectual property, and personally identifiable information (PII). Some target sectors include managed service providers, semiconductor companies, the Defense Industrial Base (DIB), universities, and medical institutions. These cyber operations support China's long-term economic and military development objectives.

This Joint Cybersecurity Advisory (CSA) provides information on tactics, techniques, and procedures (TTPs) used by Chinese state-sponsored cyber actors. This advisory builds on previous NSA, CISA, and FBI reporting to inform federal, state, local, tribal, and territorial (SLTT) government, CI, DIB, and private industry organizations about notable trends and persistent TTPs through collaborative, proactive, and retrospective analysis.

This advisory uses the MITRE Adversarial Tactics, Techniques and Common Knowledge (ATT&CK®) framework, version 9, and MITRE D3FEND™ framework, version 0.9.2-BETA-3.

See the [ATT&CK for Enterprise framework](#) for all referenced threat actor tactics and techniques and the [D3FEND framework](#) for referenced defensive tactics and techniques.

FEBRUARY 2022

The cover features a dark blue background with a large, light blue chevron pointing to the right. At the top left, the National Cyber Security Centre logo is displayed, followed by three circular logos: CISA, the Department of Homeland Security, and the National Security Agency. The word 'Advisory.' is written in white, underlined. The main title 'New Sandworm malware Cyclops Blink replaces VPNFilter' is in yellow. At the bottom right, it says 'Version 1.0', '23 February 2022', and '© Crown Copyright 2022'.

National Cyber Security Centre
a part of GCHQ

CISA

DEPARTMENT OF HOMELAND SECURITY

NATIONAL SECURITY AGENCY

Advisory.

New Sandworm malware
Cyclops Blink replaces
VPNFilter

Version 1.0

23 February 2022
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FEBRUARY 2022

The cover features a dark blue background with a large, light blue chevron pointing to the right. At the top left, the National Cyber Security Centre logo is displayed. The title 'Cyclops Blink' is in white. Below it, 'Malware Analysis Report' is written in white. At the bottom right, it says 'Version 1.0', '23 February 2022', and '© Crown Copyright 2022'.

National Cyber Security Centre
a part of GCHQ

Cyclops Blink

Malware Analysis Report

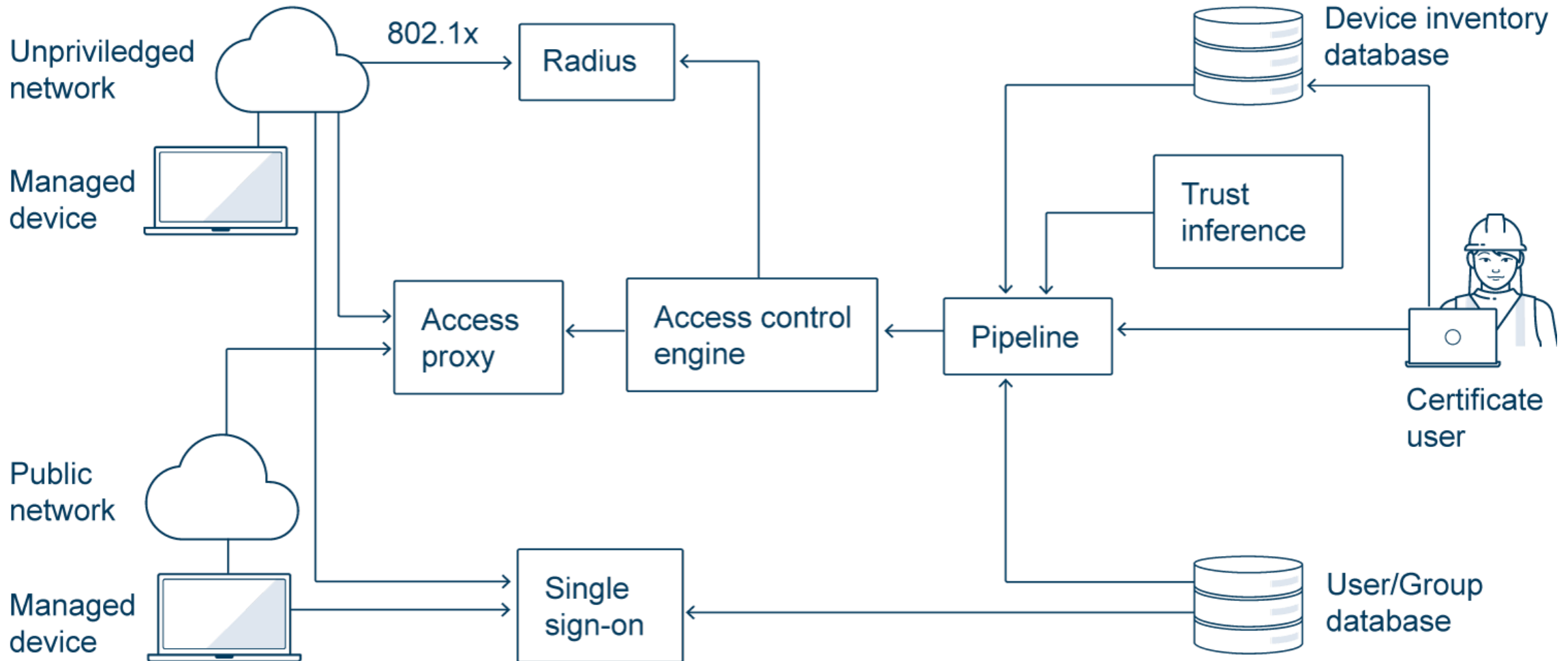
Version 1.0

23 February 2022
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We are all prime targets.

The trust we place in
each other is a weapon
that will be turned against us
if fundamental safeguards
are not present

Defender context



Attacker Context



Mid-level finance team member

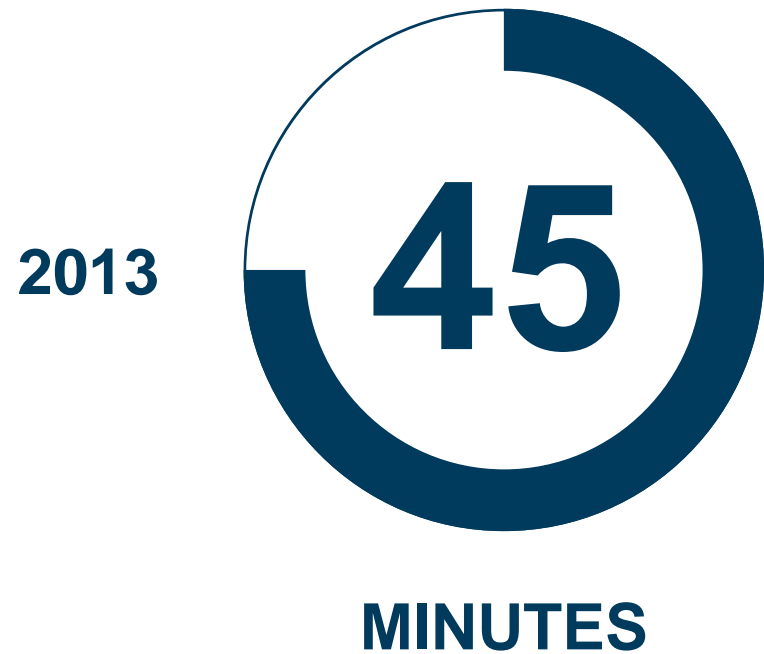


IT employee likely to have privileged access



HR manager with access to employee records

Time devoted to probe entire internet continues to shrink



Vital safeguards

- Multifactor authentication
- Patch constantly
- Monitored EDR/XDR platform
- Employee training
- Begin supplier vetting
- Certification preparation



Industry Resources

Security and Supply Chain

[Cyber Security – Vendor Support via Web Conferencing - Implementation Guidance for CIP-005-6 Parts 2.4 and 2.5](#)

[Energy Sector Supply Chain Risk Questionnaire - Formatted V3.0](#)

[Energy Sector Supply Chain Risk Questionnaire - Unformatted V3.0](#)

[NATF CIP-013 Supply Chain Risk Management Plans \(ERO Endorsed\)](#)

[NATF CIP-013 Using Independent Assessments of Vendors \(ERO Endorsed\)](#)

[NATF Cyber Security Supply Chain Risk Management Guidance](#)

[NATF Implementation Guidance for CIP-010-3 Software Integrity](#)

[NATF Industry Collaboration - Using Solution Providers for Third-Party Risk Management](#)

[NATF Practices Document for CIP-014-2 R4](#)

[NATF Practices Document for CIP-014-2 R5](#)

[NATF Supply Chain Security Criteria V3.0](#)

[Revision Process for the Energy Sector Supply Chain Risk Questionnaire and NATF Supply Chain Security Criteria](#)

[Supply Chain Security Assessment Model](#)



Questionnaire and ERO Endorsements



Customers count on each of us

800 Search Company or Domain Application

Company Details for Reports

BitSight Security Rating

About Rating

800 ADVANCED

Rating Related Risk

Ransomware Incidents vs a < 750 company

Source

Half as Likely

Data Breach Incidents vs a < 700 company

Source

Half as Likely

Company Info

+ more

Subscription **Total Risk Monitoring**

Relationship **My Company**

Monitored by **33 companies**

Homepage

Industry **Manufacturing**

IP addresses **1,496**

Searched by **1,028 users**

Company ID

UpGuard Security Rating

Company info Website

A 931 / 950

UpGuard's Cyber Security Ratings range from 0 to 950. The higher the score, the better the security practices on the primary domain for Schweitzer Engineering Laboratories.

Company	
Employees	5,000
Location	United States
CEO	

SecurityScorecard All Search companies, scorecards, portfolios and tags...

Dashboard Portfolio My Scorecard Marketplace Attack Surface (ASI) Reporting Center

A 99 +1Δ

Energy · 53 followers

Improve Score

No artifacts shared

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Customers count on each of us...

800 Search Company or Domain Application

Company Details for Reports

BitSight Security Rating
About Rating

800 ADVANCED

Rating Related Risk

Ransomware Incidents vs a < 750 company
Source

Half as Likely

Data Breach Incidents vs a < 700 company
Source

Half as Likely

Company Info

+ more

Subscription Total Risk Monitoring

Relationship My Company

Monitored by 33 companies

Homepage

Industry Manufacturing

IP addresses 1,496

Searched by 1,028 users

Company ID

UpGuard Security Rating Company info Website

A 931 / 950

Company

Employees 5,000

Location United States

CEO

UpGuard's Cyber Security Ratings range from 0 to 950. The higher the score, the better the security practices on the primary domain for Schweitzer Engineering Laboratories.

and WATCH

SecurityScorecard All Search companies, scorecards, portfolios and tags...

Dashboard Portfolio My Scorecard Marketplace Attack Surface (ASI) Reporting Center

A 99 +1Δ

Energy · 53 followers

Improve Score

No artifacts shared

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Free external assessment tools

- securityscorecard.com/free-account
- security.microsoft.com/secorescore
- observatory.mozilla.org
- webscan.upguard.com
- iss-cyber.com/signup
- search.censys.io



Constant vigilance is required



Training and government resources

- www.nsa.gov/Press-Room/Cybersecurity-Advisories-Guidance
- www.cisa.gov/free-cybersecurity-services-and-tools
- www.cisa.gov/known-exploited-vulnerabilities
- <https://learnsecurity.amazon.com/en/index.html>
- <https://www.cisa.gov/shields-up>



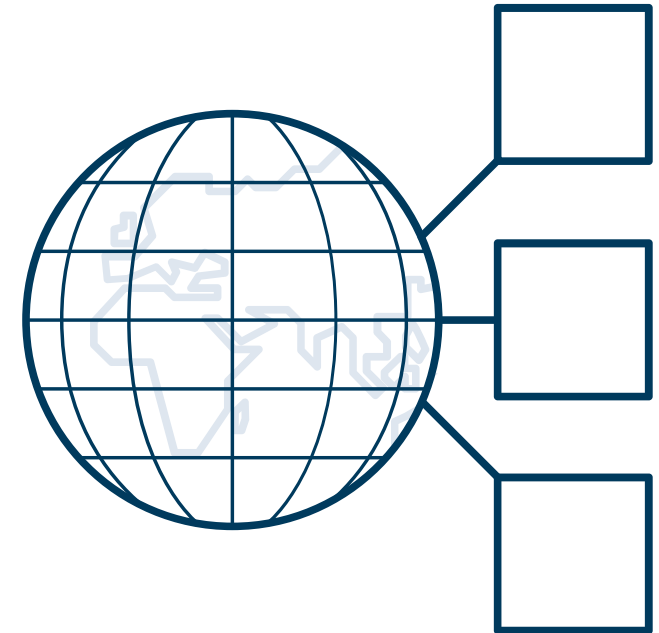
Information Sharing Opportunities

- E-ISAC and other Information Sharing and Analysis Centers
- Homeland Security Information Network (HSIN)
- National Cyber Awareness System (NCAS)
- CISA Automated Indicator Sharing (AIS)
- FBI Infragard



Managing provenance across mutual supply chains is increasingly vital

- “Executive Order No. 14028, Improving the Nation’s Cybersecurity”
- “Executive Order No. 14017, America’s Supply Chains”
- Department of Energy directives



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What certifications or assessments offered by qualified third parties does your company have?

① Start presenting to display the poll results on this slide.

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If you responded "other" to the prior question, please identify the certification or assessment.

① Start presenting to display the poll results on this slide.

Move beyond compliance

Develop a risk-based security management system using a recognized standard.

- CIS Critical Security Controls
- NIST Cybersecurity Framework
- ISO 27001
- IEC 62443



Auditable, Certifiable, and Recognized Globally

Questions?

Future Calls

Frank Harrill, SEL

- What would you like to talk about during the next call or a future call? Deeper dive
- Would you like to have a separate break out for small suppliers? Or a different subgroups?
- Several ways to respond to these questions:
 - Respond to the Slido poll
 - Join the conversation (raise your hand or put a comment in the chat or Q&A)
 - Send an email to one of the NATF staff members or to your NEMA or US Chamber of Commerce representatives

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What topics would you like to have discussed in depth on future calls?

① Start presenting to display the poll results on this slide.

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**If you responded "other" to the previous question,
please provide your topic(s) of interest**

① Start presenting to display the poll results on this slide.

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Would you like to have specific sessions for the following types of suppliers?

① Start presenting to display the poll results on this slide.

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Questions





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Thank you for attending!

NATF Contact Information

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vagnew@natf.net

Links and comments provided during the call

OMB memo M-22-18 for what is included:, link available in this article: <https://energycentral.com/c/pip/advice-software-vendors-prepare-omb-m-22-18-requirements>

From M-22-18: The term “software” for purposes of this memorandum includes firmware, operating systems, applications, and application services (e.g., cloud-based software), as well as products containing software

The Internet Engineering Task Force (IETF) is working on supply chain standards to address specific supply chain use cases:, that may be of interest: <https://www.ietf.org/archive/id/draft-birkholz-scitt-software-use-cases-00.txt>

<https://www.isa.org/intech-home/2021/december-2021/departments/two-standards-one-integrated-industrial-cybersecur>

CISA is leading 4 different SBOM workstreams: <https://www.cisa.gov/sbom>