

WELCOME TO AUTO-ISAC!

MONTHLY VIRTUAL COMMUNITY CALL

November 1, 2023

This Session will be recorded.





AUTO-ISAC ANTITRUST STATEMENT

As Members of the Auto-ISAC, we strictly comply with EU and US antitrust laws. Please do not discuss anything that your company considers commercially sensitive and/or confidential such as pricing or future product plans. A violation of any of the above-mentioned issues will result in us having to quickly terminate the meeting.

Finally, please remember to keep these deliberations confidential. Please do not discuss the substance of these meetings outside of this group.

This meeting is being held at

TLP:CLEAR

Disclosure is not limited.





TRAFFIC LIGHT PROTOCOL (TLP)

VERSION 2.0 DEFINITIONS

Color		WHEN SHOULD IT BE USED?	How May It Be Shared?		
TLP:RED	Not for disclosure, restricted to participants only.	Sources may use TLP:RED when information cannot be effectively acted upon without significant risk for the privacy, reputation, or operations of the organizations involved. For the eyes and ears of individual recipients only, no further.	Recipients may not share TLP:RED information with any parties outside of the specific exchange, meeting, or conversation in which it was originally disclosed. In the context of a meeting, for example, TLP:RED information is limited to those present at the meeting. In most circumstances, TLP:RED should be exchanged verbally or in person.		
TLP:AMBER+STRICT	Limited disclosure, restricted to participants' and its organization.	Sources may use TLP:AMBER+STRICT when information requires support to be effectively acted upon, yet carries risk to privacy, reputation, or operations if shared outside of the organization.	Recipients may share TLP:AMBER+STRICT information only with members of their own organization on a need-to-know basis to protect their organization and prevent further harm.		
TLP:AMBER	Limited disclosure, restricted to participants' organization and its clients on a need-to- know basis.	Sources may use TLP:AMBER when information requires support to be effectively acted upon, yet carries risk to privacy, reputation, or operations if shared outside of the organizations involved. Note that TLP:AMBER+STRICT should be used to restrict sharing to the recipient organization only.	Recipients may share TLP:AMBER information with members of their own organization and its clients on a need-to-know basis to protect their organization and its clients and prevent further harm.		
TLP:GREEN	Limited disclosure, restricted to the community.	Sources may use TLP:GREEN when information is useful to increase awareness within their wider community.	Recipients may share TLP:GREEN information with peers and partner organizations within their community, but not via publicly accessible channels. Unless otherwise specified, TLP:GREEN information may not be shared outside of the cybersecurity or cyber defense community.		
TLP:CLEAR	Disclosure is not limited.	Sources may use TLP:CLEAR when information carries minimal or no foreseeable risk of misuse, in accordance with applicable rules and procedures for public release.	Recipients may share this information without restriction. Information is subject to standard copyright rules.		
Source: https://www.us-cert.gov/tlp					



TLP:CLEAR

AGENDA

Time (ET)	Topic		
11:00	Welcome ➤ Why We're Here ➤ Expectations for This Community		
11:05	 Auto-ISAC Update ➤ Auto-ISAC Activities ➤ Heard Around the Community ➤ Intelligence Highlights 		
11:15	 DHS CISA Community Update Jeff Terra, Consulting Support, Joint Cyber Defense Collaborative (JCDC), Cybersecurity and Infrastructure Security Agency (CISA) 		
11:20	Featured Speaker: > Adam Robbie, Senior Staff Researcher, Palo Alto Networks > Title: "The Game of IT/OT Security: Unveiling New Critical Developments in Our Critical Infrastructure Threat Landscape"		
11:55	Q&A & Closing Remarks		





WELCOME - AUTO-ISAC COMMUNITY CALL!

<u>Purpose</u>: These monthly Auto-ISAC Community Meetings are an opportunity for you, our Members & connected vehicle ecosystem Partners, to:

- ✓ Stay informed of Auto-ISAC activities
- ✓ Share information on key vehicle cybersecurity topics
- ✓ Learn about exciting initiatives within the automotive community from our featured speakers

<u>Participants</u>: Auto-ISAC Members, Potential Members, Strategic Partners, Academia, Industry Stakeholders and Government – *the whole of the automotive industry*

Classification Level: TLP:GREEN - May be shared within the Auto-ISAC Community and "off the record"

How to Connect: For further info, questions or to add other POCs to the invite, please contact us!

(sharmilakhadka@automotiveisac.com)





ENGAGING IN THE AUTO-ISAC COMMUNITY

- ❖ Join
 - **❖** If your organization is eligible, apply for Auto-ISAC Membership
 - ❖ If you aren't eligible for Membership, connect with us as a Partner
 - Get engaged "Cybersecurity is everyone's responsibility!"



Participate

- **❖** Participate in monthly virtual conference calls (1st Wednesday of month)
- ❖ If you have a topic of interest, let us know!
- Engage & ask questions!

21 *Navigator Partners*

- 47 Supplier & Commercial Vehicle Members
- ❖ Share "If you see something, say something!"
 - **❖** Submit threat intelligence or other relevant information
 - **❖** Send us information on potential vulnerabilities
 - Contribute incident reports and lessons learned
 - Provide best practices around mitigation techniques

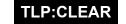
20 Innovator Partners

Membership represents 99% of cars and trucks on the road in North America

Coordination with 26 critical infrastructure ISACs through the National Council of ISACs (NCI)



OEM Members



2023 BOARD OF DIRECTORS

Thank you for your Leadership!



Josh Davis
Chair of the
Board of the Directors
Toyota



Kevin Tierney Vice Chair of the
Board of the Directors **GM**



Stephen Roberts
Secretary of the
Board of the Directors
Honda



Tim Geiger
Treasurer of the
Board of the Directors
Ford



Andreas Ebert Chair of the EuSC Volkswagen



Andrew Hillery
Chair of the CAG
Cummins



Ravi Puvvala Chair of the SAG Fleet Defender



Monica Mitchell Polaris



Bob Kaster Bosch



Brian Witten Aptiv



AUTO-ISAC MEMBER ROSTER

AS OF NOVEMBER 1, 2023

77 MEMBERS + 4 PENDING

Aisin	Fleet Defender	Luminar	Renesas Electronics
Allison Transmission	Flex	Magna	Rivian
American Axle & Manufacturing	Ford	MARELLI	Stellantis
Aptiv	Garrett	Mazda	Subaru
AT&T	General Motors (Cruise-Affiliate)	Mercedes-Benz	Sumitomo Electric
AVL List GmbH	Geotab	Mitsubishi Electric	thyssenkrupp
Blackberry Limited	Harman	Mitsubishi Motors	Tokai Rika
BMW Group	Hitachi	Mobis	Toyota (Woven-Affiliate)
BorgWarner	Honda	Motional	Valeo
Bosch (ETAS-Affiliate)	Hyundai	Navistar	Veoneer
Bose Automotive	Infineon	Nexteer Automotive Corp	Vitesco
ChargePoint	Intel	Nissan	Volkswagen (CARIAD-Affiliate)
CNH Industrial	John Deere Electronic	Nuro	Volvo Cars
Continental (Argus-Affiliate)	JTEKT	Nuspire	Volvo Group
Cummins (Meritor-Affiliate)	Kia America, Inc.	NXP	Waymo
Daimler Truck	Knorr Bremse	Oshkosh Corp	Yamaha Motors
Denso	KTM	PACCAR	ZF
e:fs TechHub GmbH	Lear	Panasonic (Ficosa-Affiliate)	
Faurecia	LG Electronics	Polaris	
Ferrari	Lucid Motors	Qualcomm	

Pending: Amazon.com, Dana Inc, Phinia Inc, Stoneridge



AUTO-ISAC BUSINESS UPDATES AND EVENTS

- > Community Call: Wednesday, December 6th Time: 11:00am 12:00 p.m. TLP:GREEN Speaker: Dan Barahona, Founder, APIsec University Title: "API Security Risks for Connected Cars"
- > Auto-ISAC 2nd European Summit be held in Munich, Germany: June 12th June 13th. The Titanium sponsor the 2024 event will be BMW. Stay tuned for more details.
- > Automotive Cybersecurity Training (ACT) Program: In person ACT Advanced courses have been rescheduled to Q1/Q2 2024, but ACT Fundamental courses are available on demand. Register: http://www.automotiveisac.com/act! Please email ACT@automotiveisac.com with any questions.
 - ACT Fundamental Course Block: Online, On-Demand, Anytime, Anywhere, and by Anyone \$500/course
 - Cybersecurity Basics (32 hrs.) | Security Engineering (28 hrs.) | Security Operations/Management (22.5 hrs.)

■Advanced courses [New Dates]:

- Advanced Engineering: January 22 26, 2024
- Wireless: February 5 9, 2024
- EV and EV Infrastructure: March 4 8, 2024
- Guided Attacks: April 29 May 4, 2024

NOTE: New Community Call invite for 2024 will be sent next month. Please be on a lookout. The existing 2023 invite will be discarded after December.





AUTO-ISAC INTELLIGENCE HIGHLIGHT





AUTO-ISAC INTELLIGENCE

- Know what we track daily: <u>subscribe</u> to the DRIVEN; Auto-ISAC 2024 Threat Assessment is in production; the <u>TLP:GREEN</u> version is expected early next year.
 - Send feedback, intelligence, or questions to <u>analyst@automotiveisac.com</u>

This document is Auto-ISAC Sensitive and Confidential.

- Intelligence Notes
 - Geopolitical tensions involving Russia, China, North Korea, and Iran remain high with Russia-Ukraine and now Israel-Hamas in crisis (Russia-Ukraine, China 1, North Korea, Iran 2 3).
 - Israel-Hamas War
 - Nuisance attacks and cyberespionage* have increased (<u>Jerusalem Post</u>, <u>TechCrunch</u>, <u>Cyberscoop</u>)
 - No signs of state-sponsored destructive cyberattacks; however, the risk of destructive cyberattacks will increase if the war becomes regional and directly involves Iran. (Note: the likelihood of the war expanding to Iran is difficult to confidently estimate. It is at least conceivable.)
 - Ransomware 4 Groups Targeting Automotive: Knight, Play, 8Base, LockBit 3.0, BianLian
 - Notable TTPs and Tools: Exploiting Atlassian CVE-2023-22515 (CISA); Exploiting Arm CVE-2023-4211 (BleepingComputer); Exploiting WS-FTP CVE-2023-40044 (Assetnote); Exploiting CISCO CVE-2023-20198 (Talos); Exploiting Internet-Exposed Jupyter Notebooks to Breach Servers (BleepingComputer); Employing Loader-Trojan-Stealer Combination in Attacks (Securelist/Kaspersky); Employing Fake Browser Updates (Help Net Security); Employing secure Universal Serial Bus (USB) Drives in Attacks (The Hacker News)



CISA Resource Highlights

Joint Cyber Defense Collaborative





CISA Releases Fact Sheet on Effort to Revise the National Cyber Incident Response Plan (NCIRP)

- First published in 2016, the NCIRP was developed in accordance with Presidential Policy
 Directive 41 (PPD-41) on U.S. Cyber Incident Coordination and describes how federal
 government, private sector, and state, local, tribal, territorial (SLTT) government entities will
 organize to manage, respond to, and mitigate the consequences of significant cyber incidents.
- NCIRP 2024 will address changes to the cyber threat landscape and in the nation's cyber defense ecosystem by incorporating principles grounded in four main areas:
 - Unification
 - Shared Responsibility
 - Learning from the Past
 - Keeping Pace with Evolutions in Cybersecurity





CISA, NSA, FBI, and MS-ISAC Release Phishing Prevention Guidance

- The joint guide outlines phishing techniques malicious actors commonly use and provides guidance for both network defenders and software manufacturers to reduce the impact of phishing techniques used in obtaining credentials and deploying malware.
- CISA and its partners encourage network defenders and software manufacturers to implement the recommendations in the guide to reduce the frequency and impact of phishing incidents.
- Malicious actors primarily leverage phishing for:
 - Obtaining login credentials
 - Malware deployment.
- Multi-factor authentication (MFA) can reduce the ability of malicious actors using compromised credentials for initial access.





CISA Releases New Resources Identifying Known Exploited Vulnerabilities and Misconfigurations Linked to Ransomware

- CISA launched two new resources for combating ransomware campaigns:
 - A "Known to be Used in Ransomware Campaigns" column in the KEV Catalog that identifies KEVs associated with ransomware campaigns.
 - A "Misconfigurations and Weaknesses Known to be Used in Ransomware Campaigns" table on StopRansomware.gov that identifies misconfigurations and weaknesses associated with ransomware campaigns.
- These two new resources will help organizations become more cybersecure by providing mitigations that protect against specific KEVs, misconfigurations, and weaknesses associated with ransomware.





Security/Software Updates

For October 2023:

- Apple Releases Multiple Security Updates
- Atlassian Releases Security Updates
- Oracle Releases Security Updates
- Citrix Releases Security Updates
- Microsoft Releases Security Updates
- CISCO Releases Security Updates
- VMWare Releases Security Updates
- Fortinet Releases Security Updates

Best practices:

- Leverage automatic updates for all operating systems and third-party software
- Implement security configurations for all hardware and software assets
- Remove unsupported or unauthorized hardware and software from systems

Please note all information provided is TLP Amber





CISA Releases Industrial Control Advisories

- These advisories provide timely information about current security issues, vulnerabilities, and exploits surrounding ICS.
- For the period of 10/1/23- 10/31/23 approximately 36 advisories have been issued.
- Affected systems include Sielco, Centralite Pearl Thermostat, Schneider Electric EcoStruxture, Rockwell Automation (multiple products), Santesoft Sante, Siemens (multiple products), Mitsubishi Electric, Advantech WebAccess, Hitachi Energy, and many others.
- For current ICS advisories please check CISA.gov regularly

Please note all information provided is TLP Amber





KEVs Catalogue

CISA strongly urges all organizations to reduce their exposure to cyberattacks by prioritizing timely remediation of Catalog vulnerabilities as part of their vulnerability management practice.



CISA added 17 new vulnerabilities to its Known Exploited Vulnerabilities (KEV) Catalog in the month of October. These types of vulnerabilities are a frequent attack vector for malicious cyber actors and pose significant risk to the federal enterprise.

Please note all information provided is TLP Amber





Additional Resources from CISA

- □CISA Homepage https://www.cisa.gov/
- CISA NCAS https://cisa.gov/resources-tools/all-resources-tools
- □CISA Shields Up https://www.cisa.gov/shields-up
- Free Cybersecurity Services and Tools https://www.cisa.gov/free-cybersecurity-services-and-tools
- CISA News Room https://www.cisa.gov/cisa/newsroom
- CISA Blog https://www.cisa.gov/blog-list
- □CISA Publications Library https://www.cisa.gov/publications-library
- □CISA Cyber Resource Hub https://www.cisa.gov/cyber-resource-hub
- □CISA Cybersecurity Directives https://cyber.dhs.gov/directives/







For more information:

cisa.gov

Questions?

Central@cisa.dhs.gov

1-888-282-0870



AUTO-ISAC COMMUNITY MEETING

Why Do We Feature Speakers?

- ❖ These calls are an opportunity for information exchange & learning
- **❖** Goal is to educate & provide awareness around cybersecurity for the *connected vehicle*

What Does it Mean to Be Featured?

- ❖ Perspectives across our ecosystem are shared from Members, government, academia, researchers, industry, associations and others.
- ❖ Goal is to showcase a rich & balanced variety of topics and viewpoints
- * Featured speakers are not endorsed by Auto-ISAC nor do the speakers speak on behalf of Auto-ISAC

30+
Featured
Speakers to
date

How Can I Be Featured?

❖ If you have a topic of interest you would like to share with the broader Auto-ISAC Community, then we encourage you to contact us!

7 Best
Practice
Guides
available on
website

2000+
Community
Participants







FEATURED SPEAKER





MEET THE SPEAKER



Adam Robbie

Adam Robbie is an ICS/OT senior researcher at Palo Alto Networks since 2022 with over 10 years of experience in both OT and IT industries. Publisher and author with SANS, IEEE, and other journals and conferences. His ambition is about contributing to secure our critical infrastructure, search for recent vulnerabilities, develop best practices and lead new initiatives. Adam has a Bachelor and Master of Science in Electrical Engineering. Additionally, he obtained advanced certifications including the Global Industrial Cyber Security Professional (GICSP) and GIAC Response and Industrial Defense (GRID) certifications.

In addition to his technical expertise, He has a strong background in leadership and education. As an Adjunct Professor, I have been teaching cybersecurity bootcamp at The George Washington University, University of Michigan, University of Wisconsin, and other universities. Through these roles, he has successfully mentored and guided students, encouraging them to excel in the field of cybersecurity. Additionally, he served as an advisor for cybersecurity curriculum development.

During his tenure as a Senior Cyber Security Consultant at Deloitte, he gained extensive experience in performing ICS/IoT penetration testing, threat hunting, risk assessment, and vulnerability research. He is proficient in utilizing various SIEM tools like Qradar, LogRhythm, and Splunk for network and host analysis. Furthermore, he has actively contributed to enhancing detection systems through the creation of security use cases.





Auto-ISAC

Briefing on OT Threat Landscape

Adam Robbie Senior Security Researcher

November 2023



Data Source and Methodology

Data collected from 10 k industrial companies across 50 countries over the past three years:

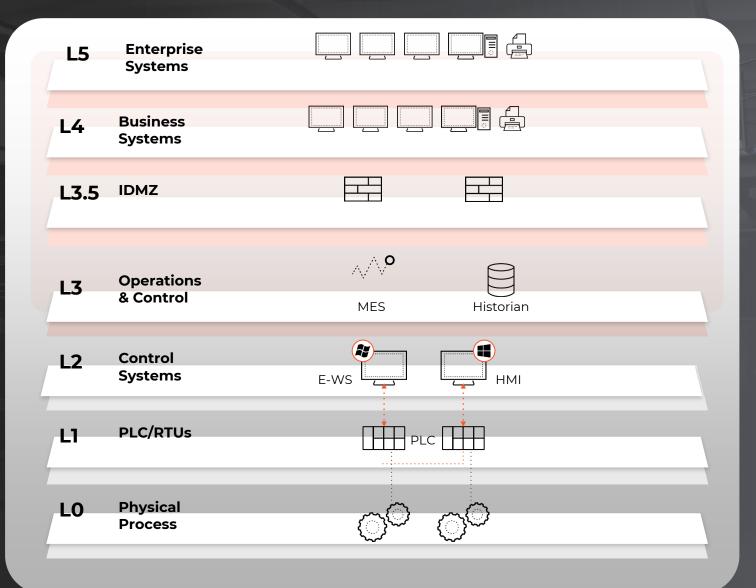
- Threat Prevention logs in Cortex Data Lake (CDL)
 - Out of a total of <u>578 million malicious sessions</u>, over <u>129 million were</u>
 <u>associated with OT/ICS industries</u>.

- Malware samples and session by Advanced WildFire
 - Over 147 million malicious samples from different regions, including the United States, Singapore, Japan, Australia, and the European Union, were inspected and analyzed for this study.



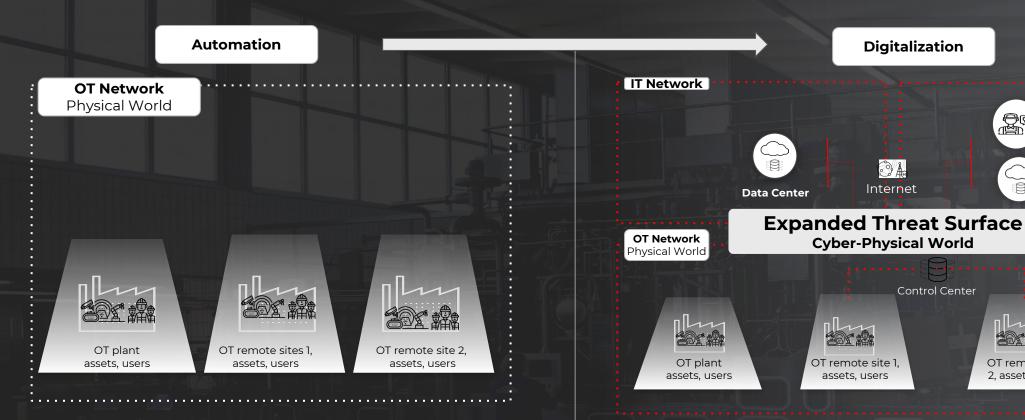
Data Source and Methodology

Based on both Unit 42's data and dark web leak site data, the manufacturing industry was the most impacted by extortion attacks in 2022.





From 3.0 to 4.0 framework



BEFORE

- Siloed operations with isolated networks
- Little connectivity between plants, remote sites, with control centers, IT, cloud and internet

NOW

• IT/OT convergence and cloud connectivity - Legacy & new OT assets connecting to IT & cloud. 400% expected increase in manufacturing

Control Center

• **5G connects new types of assets** - 15B 5G industrial assets by 2026

Digitalization

Internet

assets, users

Remote operation is on the rise - 70% of the ICS/SCADA assets have

Cloud

Remote Operation Remote worker, OEM

Cloud OT

workloads

OT remote site

2. assets, users

Overview on OT Threat Landscape

Malware observed in OT/ICS industries grew rapidly.

- An increase of 27.5% in the ratio of OT/ICS malware over all sessions
- The average number of attacks per customer increased by 238% over the last year

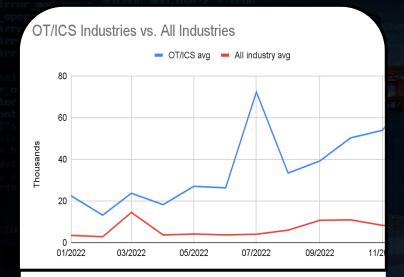
Exploit attacks against the OT/ICS industries tripled.

- Monthly average attacks per customer for OT/ICS industry increased from 22,000 to 72,000 during the last year.
- The average number of exploits targeting the OT/ICS industry surpassed the average for all other industries in both quantity in general and its growth trend.

Compromised devices in the OT/ICS industry increased

- Observed increment by 81% in 2022,
- and 23.2% of these incidents weren't promptly handled within one week, with a median recovery time of one hour.

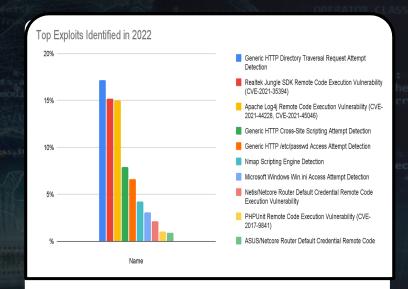
Threats Surrounding OT Network Perimeters



OT organizations face 3x as many threats as other organizations

Year	Malware Sessions	Per Customer	
2021	31 million	816	
2022	115 million	2759	

The average attack detected per customer in OT organizations increased exponentially in one year



Based on the top 10 exploits we detected, the most targeted vulnerabilities and threats are: **Supply Chain Remote Access Lateral movement**



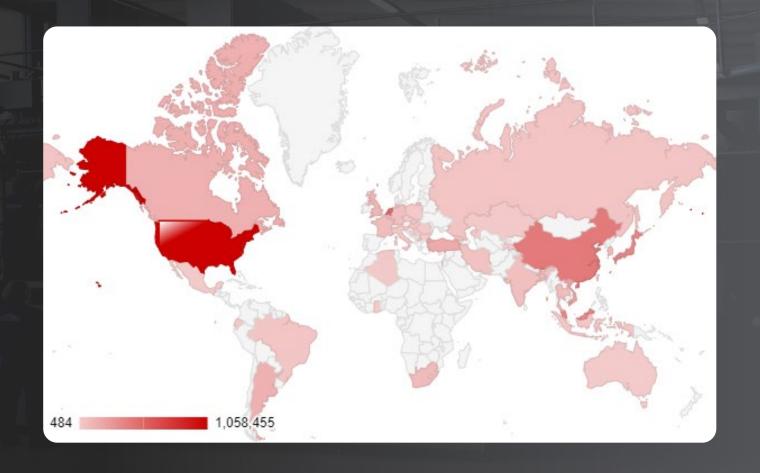
A Rising Tide of Threats - 238% increases

- Using malware sessions to represent attack attempts, each customer had an average number of 2,759 attacks detected in 2022.
- This represents an increase of 238% from the average of 816 in 2021.

Year	Malware Sessions	Malicious Ratio	Per Customer
2021	31 million	0.8%	816
2022	115 million	1.02%	2759

Malware source geolocation distribution within ICS industries.

According to our data, the United States has the highest number of reported malware incidents, with over 1 million cases, followed by China with over 400,000 cases, and Japan with over 350,000 cases.

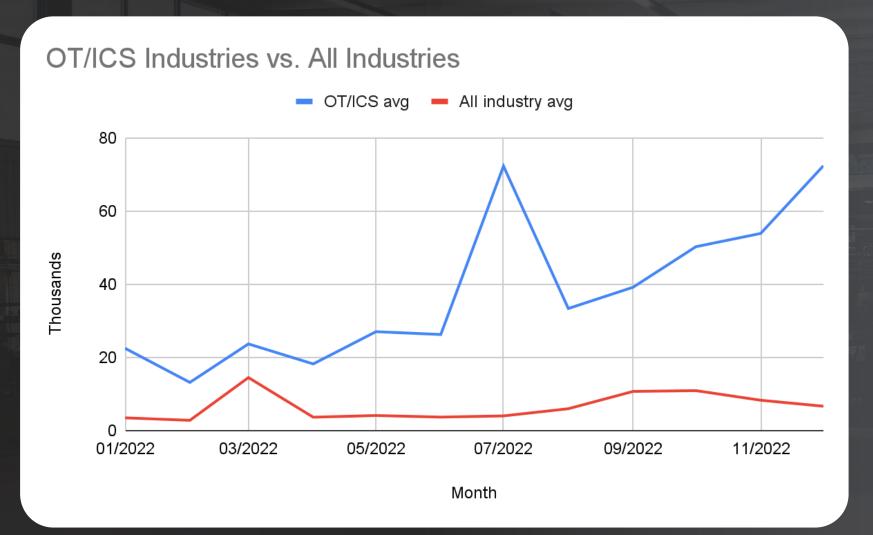


Targeted and Non-targeted Malware Threat

- Out of the 4.6 million samples that targeted the OT/ICS industry fewer than 700 samples were ICS-centric.
- These include 221 MiniFlame, 108 LockerGoga, 96 KillDisk, 68 Disttrack, 63
 GreyEnergy, 43 Industroyer, plus 19 Destover, and their variations.

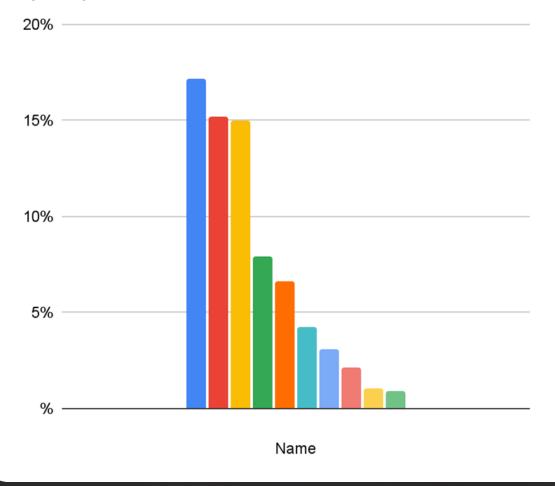


Exploits Observed Against the OT/ICS Industries



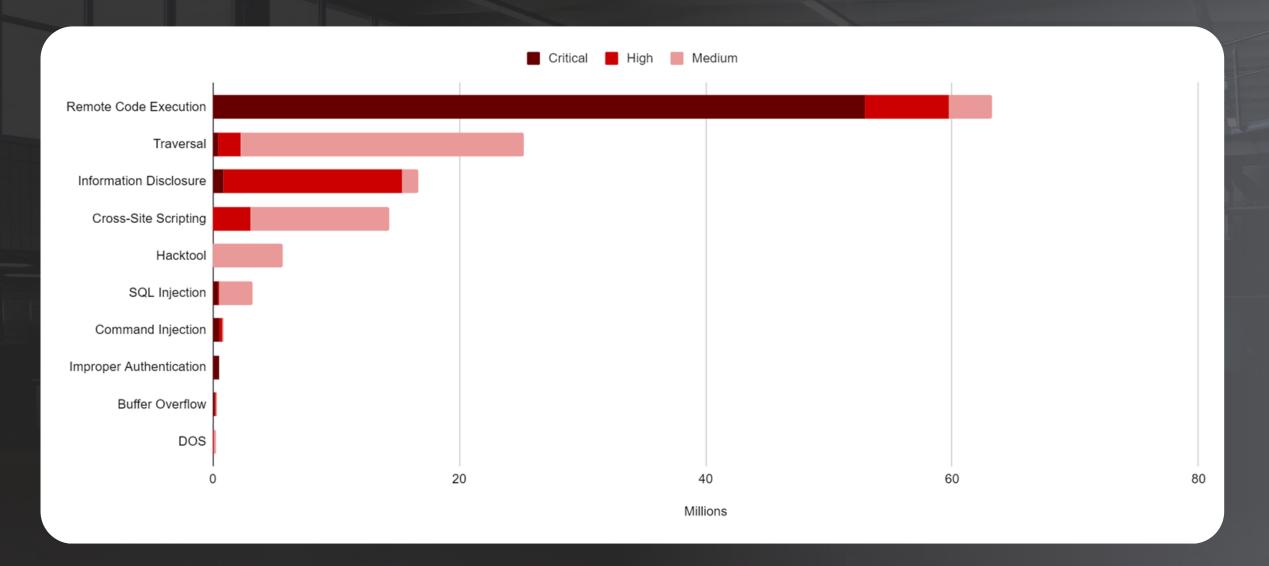
Top Exploits

Top Exploits Identified in 2022



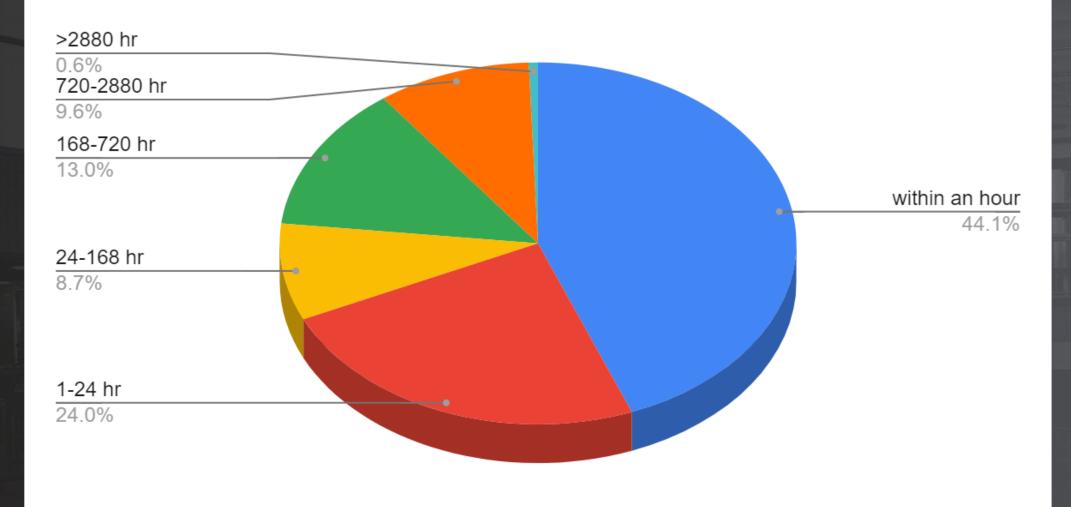
- Generic HTTP Directory Traversal Request Attempt Detection
- Realtek Jungle SDK Remote Code Execution Vulnerability (CVE-2021-35394)
- Apache Log4j Remote Code Execution Vulnerability (CVE-2021-44228, CVE-2021-45046)
- Generic HTTP Cross-Site Scripting Attempt Detection
- Generic HTTP /etc/passwd Access Attempt Detection
- Nmap Scripting Engine Detection
- Microsoft Windows Win.ini Access Attempt Detection
- Netis/Netcore Router Default Credential Remote Code **Execution Vulnerability**
- PHPUnit Remote Code Execution Vulnerability (CVE-2017-9841)
- ASUS/Netcore Router Default Credential Remote Code

Attack Category





2022 Recover Time of Compromised Devices





Three Steps to a Comprehensive Solution

Asset Identification

Group A: Critical

Group B: High

Group C: Low

Threat Levels

Advanced

Medium

Simple

Defense Levels

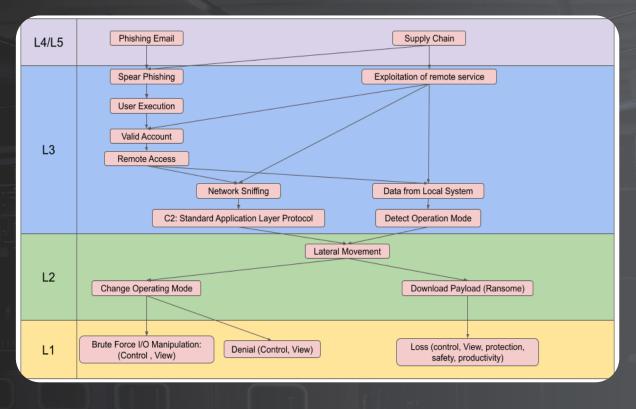
Level 3: Group A

Level 2: Group A and B

Level 1: Group A, B, and C

Threat Analysis

	Execution 9 techniques	Persistence 6 techniques	Privilege Escalation 2 techniques	Evasion 6 techniques	Discovery 5 techniques	Lateral Movement 7 techniques	Collection 11 techniques	Command and Control 3 techniques	Inhibit Response Function 14 techniques	Impair Process Control 5 techniques	Impact 12 techniques
Drive-by Compromise Remote Services Supply Chain Compromise Exploitation of Remote Services Exploit Publication Exploit Publicatio	Change Operating Wode User Execution	Valid Accounts Hardcoded Credentials	Exploitation for Privilege Escalation Hooking	Change Operating Mode Exploitation for Evasion Indicator Removal on Host Masquerading Rootkit Spoof Reporting Message	Remote System Information Discovery Network Sniffing Remote System Discovery Network Connection Enumeration Wireless Sniffing	Remote Services Valid Accounts Lateral Tool Transfer Program Download Exploitation of Remote Services Hardcoded Credentials Default Credentials	Program Upload Detect Operating Mode Point & Tag Identification Screen Capture Adversary-in-the-Middle Automated Collection Data from Information Repositories Data from Local System I/O Image	Standard Application Layer Protocol Commonly Used Port Connection Proxy	Data Destruction System Firmware Activate Firmware Update Mode Alarm Suppression Block Command Message Block Reporting Message Block Serial COM Change Credential Denial of Service Device Restart/Shutdown Manipulate I/O Image	Modify Parameter Unauthorized Command Message Brute Force I/O Module Firmware Spoof Reporting Message	Loss of Productivity and Revenue Loss of Safety Damage to Property Denial of Control Denial of View Loss of Availability Loss of Control Loss of View Manipulation of Control Control
Through Removable							Monitor		Modify Alarm		Manipulation o



Threat Heat Map

Attack Tree

Security Monitoring & Incident Response Challenges

IT-OT technology convergence VS IT-OT security convergence



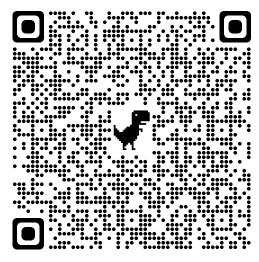






Download Unit 42 OT white paper and research study







OPEN DISCUSSION

ANY QUESTIONS ABOUT THE AUTO-ISAC OR FUTURE TOPICS FOR DISCUSSION?

This document is Auto-ISAC Sensitive and Confidential.





How to Get Involved: Membership

IF YOU ARE AN OEM, SUPPLIER OR COMMERCIAL VEHICLE, CARRIER OR FLEET, PLEASE JOIN THE AUTO-ISAC!

> REAL-TIME INTELLIGENCE SHARING

- > DEVELOPMENT OF BEST PRACTICE **GUIDES**
- > Intelligence Summaries
- EXCHANGES AND WORKSHOPS

> REGULAR INTELLIGENCE **MEETINGS**

> TABLETOP EXERCISES

> CRISIS NOTIFICATIONS

- WEBINARS AND PRESENTATIONS
- MEMBER CONTACT DIRECTORY
 ANNUAL AUTO-ISAC SUMMIT EVENT

To learn more about Auto-ISAC Membership and Partnership, please contact melissacromack@automotiveisac.com.



AUTO-ISAC PARTNERSHIP PROGRAMS

Strategic Partnership

- For-profit companies such as "Solutions Providers" that sell connected vehicle cybersecurity products & services.
- Examples: Hacker ONE, Upstream, IOActive, Karamba, Grimm
- Must be approved by Executive Director and the Membership & Benefit Standing Committee (MBSC).
- 2. Formal agreements: NDA, SPA, SoW, CoC required.
- 3. In-kind contributions allowed. Currently no fee.
- 4. Does not overtly sell or promote product or service.
- 5. Commits to support the Auto-ISAC's mission.
- Engages with the automotive ecosystem, supporting & educating Auto-ISAC Members and its Community.
- 7. Develops value added Partnership Projects to engage with the Auto-ISAC, its Member, and Community.
- 8. Summit Sponsorship allowed for promotion. Summit Booth priority.
- 9. Engagement must provide Member awareness, education, training, and information sharing
- 10. Builds relationships, shares, and participates in information sharing Auto-ISAC activities.
- 11. Supports our mission through educational webinars and sharing of information.

Community Partnership

- Community Partners are companies, individuals, or organizations with a complementary mission to the Auto-ISAC, with the interest in engaging with the automotive ecosystem, supporting, and educating Members and the community.
- Includes Industry Associations, Government Partners, Academia, Research Institution, Standards Organizations, Non- Profit, Technical Experts, Auto-ISAC Sponsors.
- Examples: Autos Innovate, ATA, ACEA, JAMA, MEMA, CLEPA, CISA, DHS, FBI, NHTSA, NCI, UDM etc.
- 1. No formal agreement required.
- 2. No approval required.
- Added to Auto-ISAC Community Distro List to stay engaged in Community events and activities.
- 4. Participate in Auto-ISAC Monthly Community Calls.
- 5. Learn what is trending in the ISACs and hear from key leaders during the special topic of interest presentation.
- 6. Added to Auto-ISAC DRIVEN list to receive our daily cyber automotive newsletter.
- 7. Part of the Network with Automotive Community and the extended automotive ecosystem.
- B. Invitation to attend and support our yearly Summit.

CURRENT PARTNERSHIPS

MANY ORGANIZATIONS ENGAGING



COMMUNITY PARTNERS

INNOVATOR

Strategic Partnership *(20)*

ArmorText

BlockHarbor

Cybellum

Deloitte

FEV

GRIMM

HackerOne

Irdeto

Itemis

Karamba Security

KELA

Pen Testing Partners Red Balloon Security

Regulus Cyber

Saferide

Security Scorecard

Trustonic

Upstream

VicOne

Vultara

NAVIGATOR

Support Partnership

AAA

ACEA

ACM

American Trucking

Associations (ATA)

ASC

ATIS

Auto Alliance

EMA

Global Automakers

IARA

IIC

JAMA

MEMA

NADA

NAFA

NMFTA

RVIA

SAE

TIA

Transport Canada

COLLABORATOR

Coordination **Partnership**

AUTOSAR

Billington Cybersecurity

Cal-CSIC

Computest

Cyber Truck Challenge

DHS CSVI DHS HQ

DOT-PIF

FASTR

FBI

GAO ISAO

Macomb Business/MADCAT

Merit (training, np)

MITRE

National White Collar Crime Center

NCFTA

NDIA

NHTSA

NIST

Northern California Regional Intelligence

Center (NCRIC)

NTIA **OASIS**

ODNI

Ohio Turnpike & Infrastructure Commission SANS

The University of Warwick

TSA

University of Tulsa

USSC

VOLPE W3C/MIT

Walsh College

TLP:CLEAR

BENEFACTOR

Sponsorship Partnership

2022 Summit Sponsors-

Argus

BGNetworks

Bosch

Blackberry

Block Harbor

BlueVoyant

Booz Allen Hamilton

C2A

Cybellum

CyberGRX

Cyware

Deloitte

Denso

Finite State

Fortress

Itemis

Keysight Technologies

Micron

NXP

Okta Sandia

Securonix

Tanium

UL

Upstream

VicOne

AUTO-ISAC BENEFITS

- Focused Intelligence Information/Briefings
- Cybersecurity intelligence sharing
- Vulnerability resolution
- Member to Member Sharing
- Distribute Information Gathering Costs across the Sector
- Non-attribution and Anonymity of Submissions
- Information source for the entire organization
- Risk mitigation for automotive industry
- Comparative advantage in risk mitigation
- Security and Resiliency





Building Resiliency Across the Auto Industry





THANK YOU







OUR CONTACT INFO





20 F Street Northwest Suite 700 Washington, DC 20001 703-861-5417 fayefrancy@automotiveisac.com



AUTOMOTIVEISAC.COM



