

WELCOME TO AUTO-ISAC! MONTHLY VIRTUAL COMMUNITY CALL

April 6, 2022 This Session will be recorded.



TLP:WHITE

DHS TRAFFIC LIGHT PROTOCOL (TLP) CHART

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AUTO-ISAC Automotive Information Sharing and Analysis Center

TLP:WHITE

From: https://www.us-cert.gov/tlp

ÅGENDA

Тіте (ет)	Торіс	
11:00	 Welcome ➤ Why We're Here ➤ Expectations for This Community 	
11:05	 Auto-ISAC Update ➢ Auto-ISAC Activities ➢ Heard Around the Community ➢ What's Trending 	
11:15	DHS CISA Community Update	
11:20	Featured Speaker: Tara Hairston, Senior Director, Alliance for Automotive Innovation 	
11:45	Around the Room ➤ Sharing Around the Virtual Room	
11:55	Closing Remarks	



WELCOME - AUTO-ISAC COMMUNITY CALL!

Purpose: 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

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

<u>Classification Level</u>: 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

* <u>Join</u>

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OEM Members

- ✤ 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

43 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

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)



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Innovator

Partners

2022 - 2023 BOARD OF DIRECTORS EXECUTIVE COMMITTEE (EXCOM)



Josh Davis Chair of the Board of the Directors Toyota



Kevin Tierney Vice Chair of the Board of the Directors GM



Jenny Gilger Secretary of the Board of the Directors Honda



Tim Geiger Treasurer of the Board of the Directors Ford



Allen Houck Chair of the SAG NXP



Todd Lawless Chair of the Advisory Board Continental



Larry Hilkene Chair of the CAG Cummins

2022-2023 Advisory Board (AB) Leadership





Todd Lawless Chair of the Advisory Board Continental



Bob Kaster Vice Chair of the Advisory Board Bosch

MEMBER ROSTER As of April 1, 2022

Highlight = Change

66 Members, 4 in Progress

Aisin	Hyundai	Nuro
Allison Transmission	Infineon	NXP
Aptiv	Intel	Oshkosh Corp
Argo AI, LLC	John Deere Electronic	PACCAR
AT&T	Kia	Panasonic (Ficosa-Affiliate)
AVL List GmbH	Knorr Bremse	Polaris
Blackberry Limited	Lear	Qualcomm
BMW Group	LGE	Renesas Electronics
BorgWarner	Lucid Group	Stellantis
Bosch (Escrypt-Affiliate)	Luminar	Subaru
Continental (Argus-Affiliate)	Magna	Sumitomo Electric
Cummins	MARELLI	Tokai Rika
Denso	Mazda	Toyota (Woven Planet – Affiliate)
Faurecia	Mercedes-Benz	TuSimple
Ford	Meritor	Valeo
Garrett	Mitsubishi Motors	Veoneer
General Motors (Cruise-Affiliate)	Mitsubishi Electric	Volkswagen
Geotab	Mobis	Volvo Cars
Google	Motional	Volvo Group
Harman	Navistar	Waymo
Hitachi	Nexteer Automotive Corp	Yamaha Motors
Honda	Nissan	ZF



UPCOMING EVENTS

Community Call:

- Wednesday, May 4 Speaker: Kenneth J. Peterson, CTPRP, Founder and CEO, Churchill & Harriman, Inc.
- Title: "Protecting and Enabling Global Revenue Streams "Time: 11 12:00 p.m. TLP:WHITE

Members Teaching Members:

Wednesday, April 20 – Speaker: Brian Witten, Aptiv Title: Compare & Contrast Automotive Product Security with Aerospace, Medical, Industrial Controls & More Time: 10 – 11:30 a.m. TLP:AMBER

> Announcements:

- ***New Auto-ISAC Website launched. Contact <u>Michael Shokouhi</u> if you have any feedback.
- Call for Community Call Speakers: Might you want to speak on the topics related to Automotive and Cybersecurity? Please send your ideas to <u>Sharmila Khadka</u>.
- Board approved the SAG's SBOM's material as an Information Report for release to Members only at this time. SAG's SBoM WG targeting a broader release in 3Q2022.
- 2021 Auto-ISAC Annual Report: Board Approved. Currently preparing TLP: GREEN for dissemination in May.
- ACT Program Advanced Courses begin on April 11th. Beta signup is open for Members only now. Contact <u>Tamara Shoemaker</u>.



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AUTO-ISAC INTELLIGENCE



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AUTO-ISAC INTELLIGENCE

- > Know what we track daily by <u>subscribing</u> to the DRIVEN
 - Send feedback, contributions or questions to <u>analyst@automotiveisac.com</u>
- Expect the Auto-ISAC 2021 Annual Report and Threat Assessment soon.
- Intelligence Notes
 - Russia's war on Ukraine continues. Maintain heightened vigilance of your business networks, industrial systems, and products for the foreseeable future, including after the war ends.
 - As long as multinational economic and social marginalization of Russia persists, the heightened threat from the Russian government and pro-Russia criminal sympathizers will continue (<u>CISA Shields Up</u>).
 - Even before Russia attacked Ukraine, we were advising the automotive community to maintain heightened vigilance for signs of malicious activity or compromise in the existing threat environment. The Russia threat merely adds to an already heightened threat environment (CISA-Known Exploited Vulnerabilities Catalog, CISA-Technical Approaches to Uncovering and Remediating Malicious Activity).
 - Almost every day we are seeing reports of various types of automotive companies being listed as ransomware victims on the dark web (along with organizations in other economic sectors). Any automotive company can be a victim any day. Prepare to respond and recover.



CISA RESOURCE HIGHLIGHTS



Presenter's Name April 6, 2022

TLP: WHITE – CISA Industrial Control Systems Working Group (ICSJWG) Spring Virtual Event

- ICSJWG Spring 2022 Virtual Event Tuesday and Wednesday April 26-27, 2022
- Save-the-date and registration links at:
 - https://www[.]cisa[.]gov/uscert/ics/icsjwg-meetings-and-webinars
 - https://www[.]cisa[.]gov/uscert/ics/Industrial-Control-Systems-Joint-Working-Group-ICSJWG
- Contact ICSJWG at ICSJWG.Communications@cisa.dhs.gov



TLP: WHITE – CISA Shields Up Website

- Provides resources and recommendations to prepare for, respond to, and mitigate the impact of cyber attacks
- Designed to support every organization large and small in their preparation to respond to disruptive cyber activity
- Technical Guidance page also available that provides information for review and consideration in responding to cyber incidents
- Resources available at:
 - https://www[.]cisa[.]gov/shields-up
 - https://www[.]cisa[.]gov/uscert/shields-technical-guidance



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TLP: WHITE – CISA Current Activities – Joint Products

Mitigating Attacks Against Uninterruptible Power Supply Devices – CISA, DOE

- https://www[.]cisa[.]gov/uscert/ncas/current-activity/2022/03/29/mitigating-attacksagainst-uninterruptable-power-supply-devices
- <u>https://www[.]cisa[.]gov/sites/default/files/publications/CISA-DOE_Insights-</u> <u>Mitigating_Vulnerabilities_Affecting_Uninterruptible_Power_Supply_Devices_Mar_29.</u> <u>pdf</u>
- State-Sponsored Russian Cyber Actors Targeted Energy Sector from 2011 to 2018 – CISA, FBI, DOE
 - https://www[.]cisa[.]gov/uscert/ncas/current-activity/2022/03/24/state-sponsoredrussian-cyber-actors-targeted-energy-sector-2011
 - https://www[.]cisa[.]gov/uscert/ncas/alerts/aa22-083a



TLP: WHITE – CISA Current Activities – Joint Products - continued

- Strengthening Cybersecurity of SATCOM Network Providers and Customers CISA, FBI
- https://www[.]cisa[.]gov/uscert/ncas/current-activity/2022/03/17/strengtheningcybersecurity-satcom-network-providers-and-customers
- https://www[.]cisa[.]gov/uscert/ncas/alerts/aa22-076a
- Updated: Kubernetes Hardening Guide NSA, CISA
 - https://www[.]cisa[.]gov/uscert/ncas/current-activity/2022/03/15/updated-kubernetes-hardeningguide
 - https://media[.]defense[.]gov/2021/Aug/03/2002820425/-1/-1/0/CTR_Kubernetes_Hardening_Guidance_1.1_20220315.PDF



TLP: WHITE – CISA Current Activities – Joint Products - continued

- Russian State-Sponsored Cyber Actors Access Network Misconfigured with Default MFA Protocols – CISA, FBI
- https://www[.]cisa[.]gov/uscert/ncas/current-activity/2022/03/15/russian-statesponsored-cyber-actors-access-network-misconfigured
- https://www[.]cisa[.]gov/uscert/ncas/alerts/aa22-074a
- Updated: Conti Ransomware CISA, FBI, NSA, USSS
 - https://www[.]cisa[.]gov/uscert/ncas/current-activity/2022/03/09/updated-conti-ransomware
 - https://www[.]cisa[.]gov/uscert/ncas/alerts/aa21-265a



TLP: WHITE – Two Hundred Twenty-Six (226) Known Exploited Vulnerabilities added in March 2022

- The following CISA Current Activities highlight added KEVs:
 - https://www[.]cisa[.]gov/uscert/ncas/current-activity/2022/03/31/cisa-adds-seven-knownexploited-vulnerabilities-catalog
 - https://www[.]cisa[.]gov/uscert/ncas/current-activity/2022/03/28/cisa-adds-32-knownexploited-vulnerabilities-catalog
 - https://www[.]cisa[.]gov/uscert/ncas/current-activity/2022/03/25/cisa-adds-66-knownexploited-vulnerabilities-catalog
 - https://www[.]cisa[.]gov/uscert/ncas/current-activity/2022/03/15/cisa-adds-15-knownexploited-vulnerability-catalog
 - https://www[.]cisa[.]gov/uscert/ncas/current-activity/2022/03/07/cisa-adds-11-knownexploited-vulnerabilities-catalog
 - https://www[.]cisa[.]gov/uscert/ncas/current-activity/2022/03/03/cisa-adds-95-knownexploited-vulnerabilities-catalog
- KEV Catalog:
 - https://www[.]cisa[.]gov/known-exploited-vulnerabilities-catalog



TLP: WHITE – Additional Resources From CISA

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





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

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 Speakers to date



FEATURED SPEAKER



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TARA HAIRSTON, ALLIANCE FOR AUTOMOTIVE INNOVATION SENIOR DIRECTOR, TECHNOLOGY, INNOVATION, & MOBILITY POLICY

Tara Hairston supports policy development on technology, innovation, and mobility policy issues, including artificial intelligence, cybersecurity, intellectual property rights protection, emerging transportation technologies, and new mobility models.

Prior to joining Auto Innovators, Tara spent over five years as the Head of Government Relations, North America for Kaspersky and nearly a decade working on federal and state policy at Honda.

Tara holds a double B.A. in Political Science and International Relations from Saint Joseph's College, New York.



https://www.autosinnovate.org/

AfAI Mission

Cleaner. Safer. Smarter. Formed by the 2020 combination of the Alliance of Automobile Manufacturers (Auto Alliance) and the Association of Global Automakers (Global Automakers), Auto Innovators is dedicated to propelling the unprecedented innovation that will make our lives better. Driven by the collective energy of the world's multi-faceted auto industry, we are on the leading edge of transforming personal mobility, in a cleaner, safer, and smarter manner.



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Cybersecurity Policy Developments for the Auto Industry

April 6, 2022



TODAY'S ROADMAP



AGENDA

- Brief Introduction
- Cybersecurity Incident Reporting
- Cybersecurity Governance
- Supply Chain Risk Management
- Questions & Answers



What is the Alliance for Automotive Innovation?



Auto Innovators is...

The singular, authoritative, and respected voice of the automotive industry. Focused on creating a safe and transformative path for sustainable industry growth, the Alliance for Automotive Innovation represents the manufacturers producing nearly 98 percent of cars and light trucks sold in the U.S. The organization is involved in regulatory and policy matters impacting the light-duty vehicle market across the country. Members include U.S. operations of international motor vehicle manufacturers, original equipment suppliers, technology, and other automotive-related companies and trade associations.



CYBERSECURITY INCIDENT REPORTING



New Law

FY22 Omnibus Appropriations bill signed March 15, 2022 Cyber Incident Reporting for Critical Infrastructure Act of 2022 now law

Pending CISA Rulemaking Process



Proposed Regulation

SEC Proposed Rule on March 9, 2022 Comments Due May 9, 2022

Final Outcome ???



Why this Matters...

- Applicability and Scope
- Multiple reporting timelines
- Potentially inconsistent reporting content requirements
- Potential lack of harmonization between recipient agencies



CYBERSECURITY GOVERNANCE



Recent Calls for Enhanced Cybersecurity Governance...





SUPPLY CHAIN RISK MANAGEMENT



Supply Chain, Supply Chain...

SEC Proposed **Rule**

Cybersecurity Executive Order 14028

Development Framework Ð Softwa Secure

National Initiative for Improving Cybersecurity in Supply Chains White House Announcement

Software

NIST SP 800-161



QUESTIONS?





Transforming Personal Mobility



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



TLP:WHITE

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
- > INTELLIGENCE SUMMARIES
- > REGULAR INTELLIGENCE **MEETINGS**
- > CRISIS NOTIFICATIONS

- > DEVELOPMENT OF BEST PRACTICE GUIDES
- > Exchanges and Workshops
- > TABLETOP EXERCISES
- > WEBINARS AND PRESENTATIONS
- > MEMBER CONTACT DIRECTORY > ANNUAL AUTO-ISAC SUMMIT EVENT

To learn more about Auto-ISAC Membership, please contact andreaschunn@automotiveisac.com. For Partnership, please contact sharmilakhadka@automotiveisac.com.



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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
- 1. 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.
- 6. 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.
- 3. 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.
- 8. Invitation to attend and support our yearly Summit.

CURRENT PARTNERSHIPS

MANY ORGANIZATIONS ENGAGING



COMMUNITY PARTNERS

INNOVATOR Strategic Partnership (13)

Cybellum Deloitte FEV GRIMM HackerOne Karamba Security Kela Pen Testing Partners Red Balloon Security Regulus Cyber Saferide Security Scorecard Upstream

AUTO-ISAC Automotive Information Sharing and Analysis Center

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 - DoCommerce OASIS ODNI **Ohio Turnpike & Infrastructure Commission** SANS The University of Warwick TSA University of Tulsa USSC VOLPE W3C/MIT Walsch College

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BENEFACTOR **Sponsorship** Partnership 2021 Summit Sponsors-Celerium Cyware Denso NDIAS **IOActive** Clarotv Deloitte Finite State Tanium **Recorded Future** PaloAlto Networks Upstream Securonix Zimperium Micron Block Harbor SecurityScorecard Booz Allen CybelAngel ATT Ford Cybellum 2020 Summit Sponsors-Claroty Upstream Escrypt Blackberry Cybellum Blockharbor C2A Synopsis Intsignts ValiMail

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



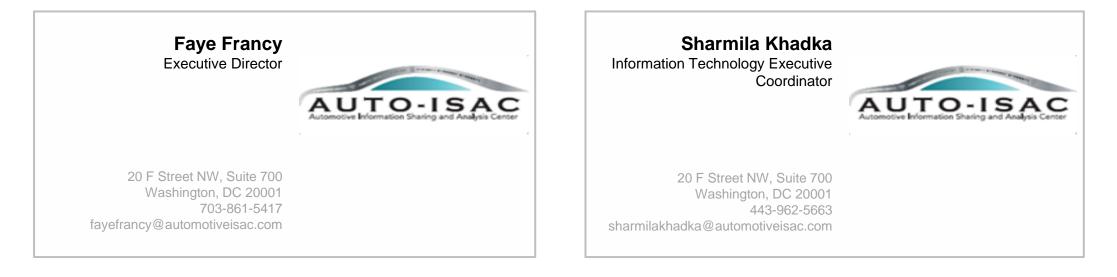
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THANK YOU!





OUR CONTACT INFO





www.automotiveisac.com @auto-ISAC



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