



## **Auto-ISAC Overview**

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## The Department of Homeland Security (DHS) Traffic Light Protocol (TLP) Chart

Label	When Should This Label Be Used?	How Should This Information Be Shared?
Not for disclosure; restricted to participants only	<ul> <li>Additional parties cannot take effective action to prevent further harm</li> <li>Impact to privacy, reputation, or operations if misused</li> </ul>	Do not share with any parties outside of the specific exchange, meeting, or conversation in which it was originally disclosed
TLP:AMBER  Limited disclosure; restricted to participants' organizations	<ul> <li>Requires support to be effectively acted upon</li> <li>Carries risks to privacy, reputation, or operations if shared outside of the organizations involved</li> </ul>	<ul> <li>Only share within your own organization, and with clients or customers who need to know the information to protect themselves or prevent further harm</li> </ul>
Limited disclosure; restricted to the community	Useful for the awareness of all participating organizations and peers within the broader community	<ul> <li>Share with peers and partner organizations within your sector, but not via publicly accessible channels</li> <li>May circulate widely within a particular community, but may not release outside of the community</li> </ul>
day's ssification Disclosure is not limited	Minimal or no foreseeable risk of misuse	May be distributed without restriction (subject to copyright rules)



## What is an ISAC and Why is it Needed?

Created in 1998, Information Sharing & Analysis Centers (ISACs) were a product of a US Presidential directive to help protect critical infrastructure from cyber attacks. Today there are over 24 ISACs across different sectors, including Auto-ISAC.

### **ISAC Purpose**







- **1** Facilitate exchange of threat intelligence
  - Anonymous Submission
  - Limitation on the use of information

- Protect critical infrastructure & key resources
  - Elevate "security and resilience" across industries by sector

- **3** Provide unique capabilities for sharing of threat intelligence
  - Member-to-member sharing
  - Diverse partnership network

### **ISAC Member Legal Protections**



ISACs are given special protections that allow for **sharing and receiving threat intelligence with less legal risk** (when shared in accordance with US federal procedures).





## About the Automotive ISAC (Auto-ISAC)

Established in 2015, Auto-ISAC's mission is to provide an **unbiased, central point of coordination and communication** for the global automotive industry through the analysis and sharing of **trusted and timely cyber threat information**.

### Membership is open to:

## **Core Services**

#### **Member Benefits**

Light and Heavy-Duty Vehicle
OEMs

Light and Heavy-Duty Vehicle Suppliers

Commercial Vehicle Companies



Gain access to an expansive network of companies dedicated to making our industry more secure, together:



Leverage the resources of the Auto-ISAC community to improve your cyber program.



Get timely and actionable threat intelligence through Auto-ISAC's community driven intelligence sharing services.

One company's detection of a threat...

could help another prevent or better respond to an incident.





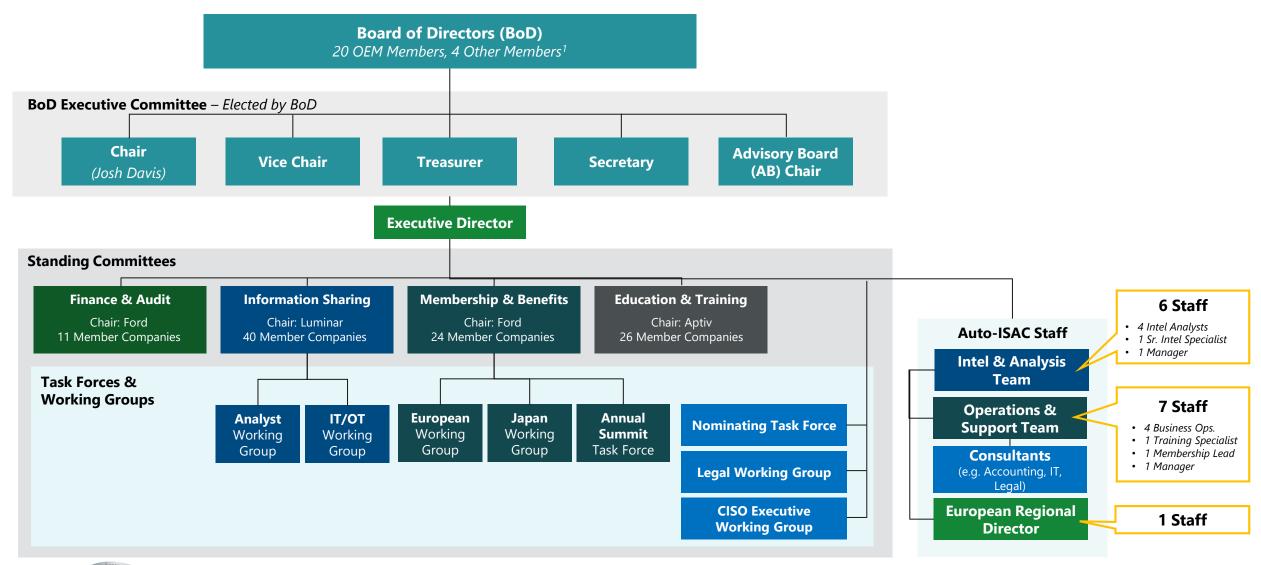
# Auto-ISAC Member List (78 Total = 29 OEMs + 49 Suppliers)

Member Companies						
Aisin	Denso	Kia	Motional	Sumitomo Electric		
Allison Transmission	e:fs	Knorr Bremse	Navistar	Thyssenkrupp		
American Axle & Manufacturing	Faurecia	KTM	Nexteer Automotive Group	Tokai Rika		
Aptiv	Ferrari	Lear	Nissan	Toyota		
Argo Al, LLC	Flex	LG Electronics	Nuro	TuSimple		
AT&T	Ford	Lucid Motors	Nuspire	Valeo		
AVL List GmbH	Garrett	Luminar	NXP	Veoneer		
Blackberry Limited	General Motors	Magna	Oshkosh Corp	Vitesco		
BMW Group	Geotab	Marelli	PACCAR	Volkswagen		
BorgWarner	Harman	Mazda	Panasonic	Volvo Cars		
Bosch	Hitachi	Mercedes-Benz	Polaris	Volvo Group		
Canoo	Honda	Meritor	Qualcomm	Waymo		
ChargePoint	Hyundai	Micron	Renesas Electronics	Yamaha Motors		
Continental	Infineon	Mitsubishi Electric	Rivian	ZF		
Cummins	Intel	Mitsubishi Motors	Stellantis			
Cymotive	John Deere Electronic	Mobis	Subaru			





## 2022 Auto-ISAC Organization Chart





<sup>1</sup> Other BoD representation from:

- Advisory Board (AB): Chair & Vice Chair
- Supplier Affinity Group (SAG): Chair
- Commercial Affinity Group (CAG): Chair

## \*New\* 2023 Auto-ISAC Board of Directors (BoD) Structure

**Current Structure (2022) BoD Members** 20 OEMs<sup>1</sup>, 4 Other **BoD Executive Committee** 1. Board Chair 2. Vice Chair Only OEMs1 3. Treasurer 4. Secretary Non-OEM 5. AB<sup>3</sup> Chair **Challenges of a large board:** Reaching minimum attendance to have a quorum (at least 50% of BoD) Obtaining a majority to make a decision

## **Future Structure (2023+)** Effective January 1, 2023 **BoD Members** Must always be >50% OEMs1 1. Board Chair Only OEMs1 2. Vice Chair 3. Treasurer 4. Secretary 5. Flex Seat<sup>2</sup> #1 6. Flex Seat<sup>2</sup> #2 7. Flex Seat<sup>2</sup> #3 8. SAG<sup>3</sup> Chair 9. CAG<sup>3</sup> Chair 10. EuSC4 Chair

Benefits of the Future
Board Structure



- Enable faster decision making for Auto-ISAC
- ✓ Broader representation of the Auto-ISAC member population



<sup>&</sup>lt;sup>1</sup> Original Equipment Manufacturer (OEM) as defined by National Highway Traffic Safety Administration (NHTSA)

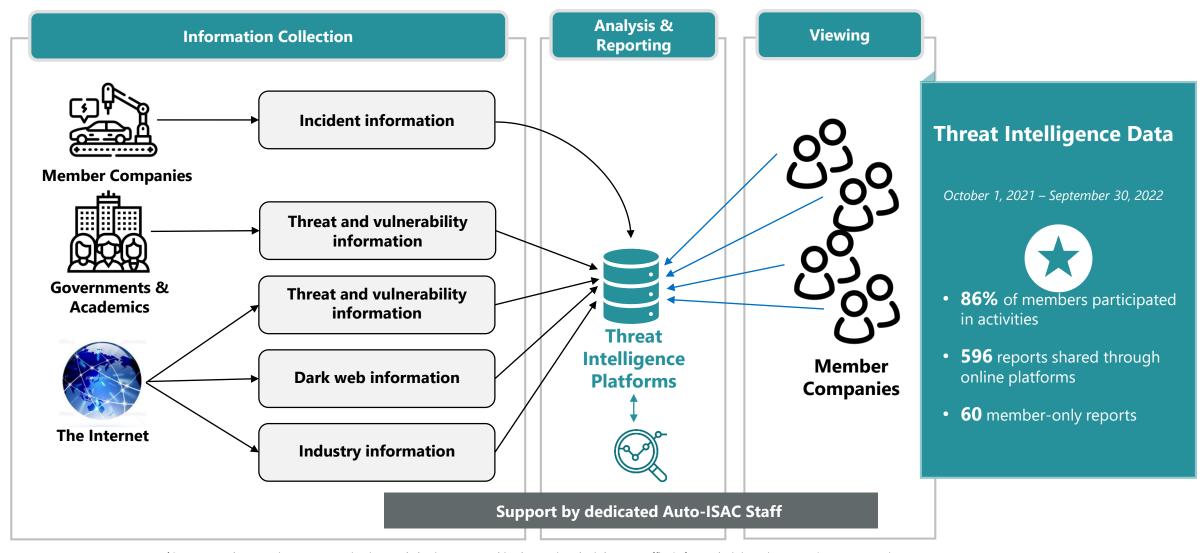
<sup>&</sup>lt;sup>2</sup> Flex seats may be filled by an OEM or non-OEM member while ensuring the composition of the board criteria is met (>50% OEMs)

<sup>&</sup>lt;sup>3</sup> Non-OEM Representation: Advisory Board (AB), Supplier Affinity Group (SAG), Commercial Affinity Group (CAG)

<sup>&</sup>lt;sup>4</sup> European SC Chair (EuSC)



## Auto-ISAC Threat Intelligence Sharing Model<sup>1</sup>





## **Auto-ISAC Additional Activities**

1



#### **Tabletop Exercises**

Annual practice drills designed for members to support cyber resilience.

4



# Quarterly Workshops & Webinars

Face-to-Face engagement between analysts, executives, and strategic partners.

2



# Monthly Community Calls

Knowledge sharing from leaders in cybersecurity.

5



### Auto Cybersecurity Training (ACT<sup>1</sup>)

Curriculum to develop "fully qualified" automotive cybersecurity practitioners.

<sup>1</sup>Funded by NHTSA; Expected release in 2023

3



#### Bi-weekly Threat Briefing

Deep discussion of recent security threats and vulnerabilities.

6



# Annual Summit

Automotive cybersecurity conference to showcase industry insights and member collaboration.





## Auto-ISAC Reflections and Opportunities



#### Reflections

- 1. Benefit of stronger "joint" communications to customers, public, government, and media.
- Threats targeting connected vehicle product and information systems (IT/IoT) make it necessary to include both organizations.
- 3. Frequent staff rotation by members can lead to many management re-introduction efforts.



#### **Opportunities**

- Resolve which ISAC leads community regarding threats against:
- A. On-car ADAS sensors and sensor fusion techniques.
- B. Connected charging infrastructures and systems.
- MaaS systems such as sharing.
- Clarify membership opportunities for companies not yet producing in-market products or services.





