

# PROFESSIONAL SERVICES

## Automotive Cybersecurity Services

### THE PROBLEM

Automotive manufacturers and suppliers may not have the resources or capabilities to maintain a permanent, in-house team that can manage risk assessment and cyber-regulation compliance.

#### Common Challenges

- Scarcity of specialized skills and human resources
- Lack of experience with ISO/SAE 21434 compliance

### THE SOLUTION

Arilou's **Professional Services** are a modular suite of carefully curated cyber-services, representing the very best in 3rd-party cybersecurity solutions.

#### Available Services

- Threat Analysis and Risk Assessment
- ISO/SAE 21434 Compliance
- Cybersecurity Audit and Summarization

#### Service Benefits

##### Professional Services Threat Analysis and Risk Assessment (TARA)

Threat analyses and risk assessment, alongside effective planning and documentation, are critical first steps in the creation of a cybersecurity strategy. This is a required step of UN Regulation 155 (UNECE WP.29) for type certification.

Risk probability	RISK SEVERITY				
	Catastrophic A	Hazardous B	Major C	Minor D	Negligible D
Frequent 5	6A	5B	5C	5D	5E
Occasional 4	4A	4B	4C	4D	4E
Remote 3	3A	3B	3C	3D	3E
Improbable 2	2A	2B	2C	2D	2E
Extremely improbable 1	1A	1B	1C	1D	1E

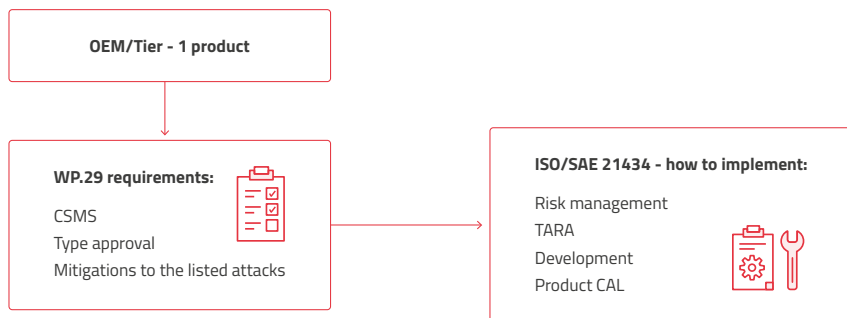
- **Assess and analyse** current and planned automotive cybersecurity posture
- **Document** risks, vulnerabilities, exposures, predicted attack vectors and kill chains.

- **Optimized Planning** for risk reduction using improved cybersecurity:
  - Architectures
  - Design
  - Components
  - Intrusion detection/prevention
  - Endpoint protection
  - Cloud security

### Professional Services ISO/SAE 21434 Consultation for Compliance

OEMs are now required to obtain UNECE WP.29/UNR 155 certification for each new model vehicle. Such certification is achieved through compliance with the ISO/SAE 21434 standard.

These requirements are also inherited by Tier-1s and Tier-2s throughout the supply chain. As a trusted security partner, Arilou provides the expertise needed to achieve your cybersecurity obligations.



- **Cyber Protection Plan** Assist OEMs, Tier-1s, and Tier-2s in mapping security gaps and generate a cyber-protection plan.
- **Internal Audit and Summary** Provide an internal audit and summary.
- **Execution Support.** Support the execution of the cyber-protection plan through the compliance process.

## ABOUT ARILOU:

**Arilou Automotive Cybersecurity**, part of NNG Group, believes in an automotive future secured against cyber-attack. A leading provider of pioneering cybersecurity solutions for the automotive industry, Arilou was the first to introduce CAN (**Sentinel-CAN**, **Sentinel-TRK**) and automotive Ethernet (**Sentinel-ETH**) in-vehicle network security.

Winner of **Frost & Sullivan's** 2019 Technology Innovation award, and independently tested by **UMTRI**, with perfect results, Arilou's **Sentinel-CAN** software intrusion detection and prevention system and **Sentinel-PHY** electronic fingerprint authentication offer supreme detection and prevention rates with zero false alarms.

With its holistic approach and low-cost multi-layered solutions, **Arilou** is making full protection for vehicles a reality.

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