Automotive Cybersecurity in the IoT Automotive sector is one paramount. In this industry, cyber-attacks could have immediate implications on safety! Latest studies have shown that 37% of consumers would switch car brands to achieve improvements in autonomous driving and connectivity.

CHALLENGES

Security, physical safety and privacy concerns:

Hackers could potentially take control of safety-critical aspects of a vehicle's operation.

Personally-identifiable information could be stolen and breach consumer's privacy rights.

Increased varied technologies:

The number of sensors per vehicle has rapidly increased, which in turn, creates a higher number of entry points for potential cyber attacks.

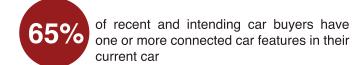
Certification:

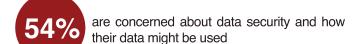
It is hard for consumers to evaluate whether a component is secure against cyber attacks.

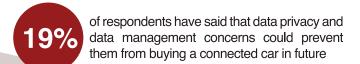
A higher level of consumer trust could be gained through union – wide certification.

Different security standards may be applied to assess the security of IoT devices.

OPPORTUNITIES



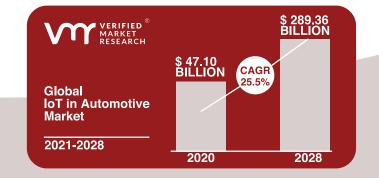












HOW CAN RED ALERT LABS HELP YOU HAVE A MORE SECURE JOURNEY?

We can train you

- By providing Cybersecurity trainings for Automotive IoT manufacturers, subjects as current market situation, incidents, threats and risks, regulation, standards and best practices are covered
- E.g. :Common Criteria for automotive applications and available protection profiles

We can support you

- To meet standards that you need
- During the full process of designing secure IoT components

We can evaluate your product security

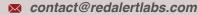
- Through risk and cybersecurity threats analysis
- Through gap assessment and design reviews
- Through customized security assessment and penetration test campaigns for automotive components

We can accompany you in the certification process

- By assisting you in obtaining the certification you are targeting
- By providing a conformity assessment program for Automotive IoT, ensuring minimum risk exposure

WE MASTER STANDARDS & REGULATIONS THAT IMPACT YOUR INDUSTRY

- SPY Act (USA)
- UNECE WP.29
- BSI PAS 1885 (UK)
- C2C: Standards for V2X communication requiring Common Criteria
- ETSI ITS test specifications for V2X communications (103 096, 103 525 and 103 600 series)
- CCC: Standards for consumer device link to automotive
- ISO 16845 Road vehicles Controller area network (CAN) conformance test plan
- ISO 26262 Road vehicles Functional safety
- ISO/SAE 21434 Road vehicles cyber security engineering
- ISO 21448 Road Vehicles Safety of the Intended Functionality
- SAE J3101 Hardware-Protected Security for Ground Vehicle Applications
- SAE J3061 Cybersecurity Guidebook for Cyber-Physical Vehicle Systems
- 3GPP TS 33.536 Security aspects of 3GPP support for advanced Vehicle-to-Everything (V2X) services
- TISAX Trusted Information Security Assessment Exchange
- IATF 16949 Automotive Quality Management Systems



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