

Transportation systems cybersecurity. Modern threats

Transportation is expanding from its origin – transport – to encompass more than just moving vehicles. Transportation can feature systems with feedback for power generation (smart cities), providers of commonly used location services (GPS/GLONASS), smartphone managed vehicles (automotive), value added entertainment platforms (IFE, IFPL), connected cars, and, in the not too distant future, it will also encompass driverless cars.

Kaspersky Lab and AVL Software and Functions offer a set of proactive threat intelligence services for the automotive industry that is going to enhance security operations and take a proactive approach against advanced threats:

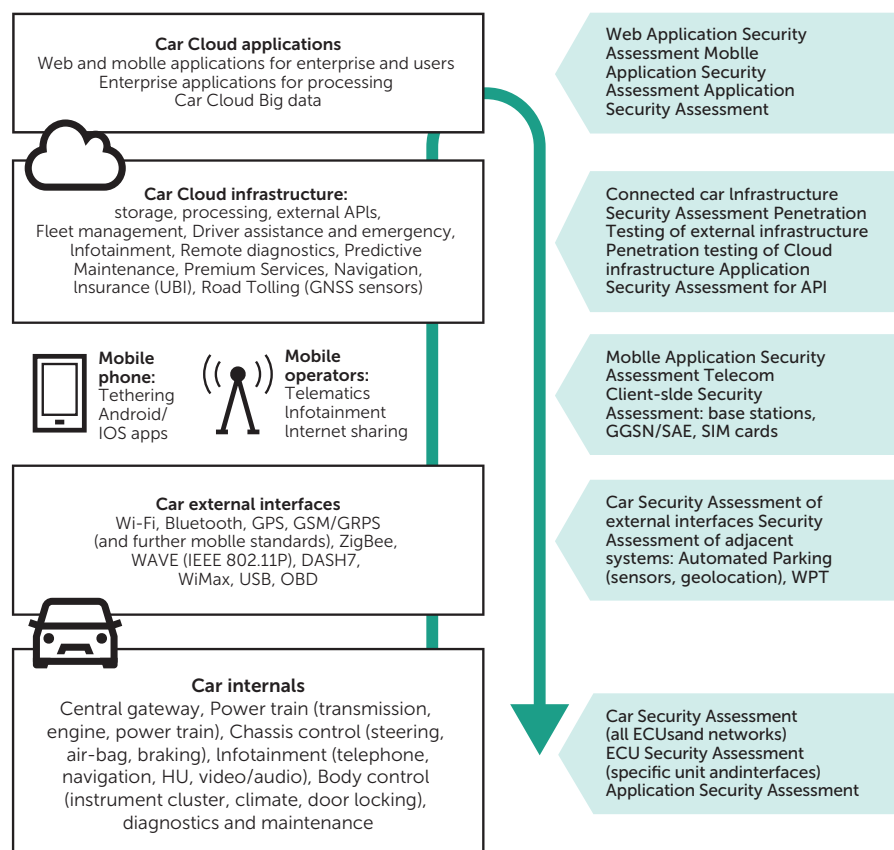
- Car Security Assessment and ECU Security Assessment**
 In-depth security analysis of vehicle internals (ECU, TCU, TPMS, RKE, PATS, etc.) and corresponding internal and external interfaces (wired and wireless).
- Application Security Assessment**
 Detailed security analysis of applications, including static and dynamic analysis of the application's source code and architecture. Kaspersky Lab experts are able to discover any vulnerabilities that might enable an intruder to bypass authentication and authorization procedures, raise privileges, or bypass security controls or fraud detection.
- Connected Cars Security Assessment**
 A complex approach for the security analysis of cloud-based and datacenter systems with telematics (remote control parking, real-time traffic updates, tele services, online entertainment, smartphone integration, etc.).
- Penetration Testing**
 Analysis of network and system infrastructure from the point of view of external and internal intruders. Our experts will attempt to bypass security controls on behalf of various types of intruders in order to obtain maximum possible privileges in important systems.
- Telecom Client-side Security Assessment**
 Advanced security analysis of vehicle external communications (mobile networks from 2G to 4G) with Connected Cars Service Platforms, and also vehicle-to-vehicle and vehicle-to-infrastructure systems.

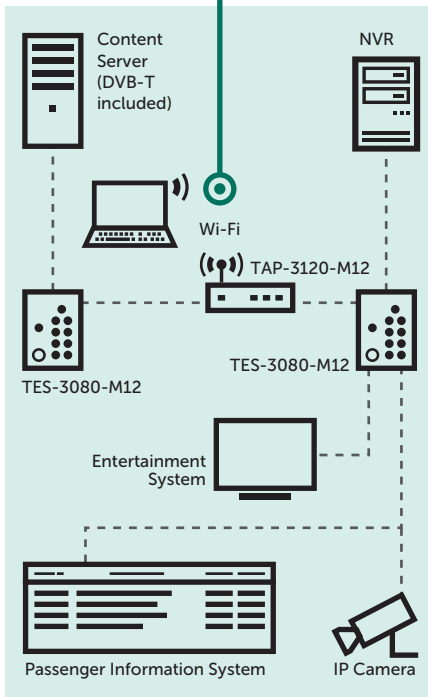
Automotive

Vehicles are becoming cluttered with technologies inside and outside of the car. Introduction of more ECUs inside the vehicle or external services in the wellknown security domain of public networks or clouds increases the threat model (and attackers possibilities). Automotive Industry security is on the verge right now with newspaper headlines covering vulnerabilities and attacks, while fundamental architecture flaws (communication buses) that are torturing automotive vendors.

Threat Intelligence Services for Automotive Industry

Kaspersky Lab and AVL Software and Functions offer a set of proactive threat intelligence services for the Automotive Industry that is going to enhance security operations and take a proactive approach against advanced threats:





Railway and rapid transit

The safety of rapid transit railway transportation is closely connected to the cybersecurity of locomotive, floor and station automation systems. The introduction of Communication Based Train Control (CBTC), and European Train Control Systems (ETCS) means manufacturers and transportation system operators must pay serious attention to cybersecurity.

Our experts offer a range of products and services that increase the cybersecurity of railways. Our solutions work on different stages of the base automation components lifecycle – from analysis to managed security services, and from embedded Automatic Train Control to online ticket selling portals.

Kaspersky Transportation Security Services Customers

Our list of customers includes, but is not limited to:

- Ferrari S.p.A.
- LKQ
- Carglass
- Hankook Tire
- Abu Dhabi Racing
- AGC Glass Germany
- TÜV Rheinland



Kaspersky Transportation System Security
39A/3 Leningradskoe Shosse, Moscow,
1252121, Russian Federation
www.kaspersky.com
transportation.security@kaspersky.com
connectedcars@kaspersky.com
Phone: +7-495-797-8700
Fax: +7-495-797-8709
+7-495-956-7000



AVL Software and Functions GmbH
Im Gewerbepark B29
D-93059 Regensburg
www.avl.com
info.rgb@avl.com
Phone: + 49 (0)941 630 890
Fax: + 49 (0)941 630 89 111