

# SENTINEL-PHY

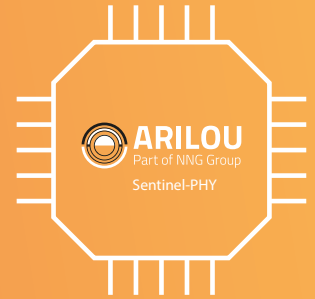
## CAN Message Origin Authentication

### TECHNOLOGY:

Arilou **Sentinel-PHY** analyses, in real time, every message that is sent on the bus. By physically authenticating the message origin and authorizing it **Sentinel-PHY** can intercept malicious messages originating from hijacked electronic control units (ECUs).

#### Multi-layered Security

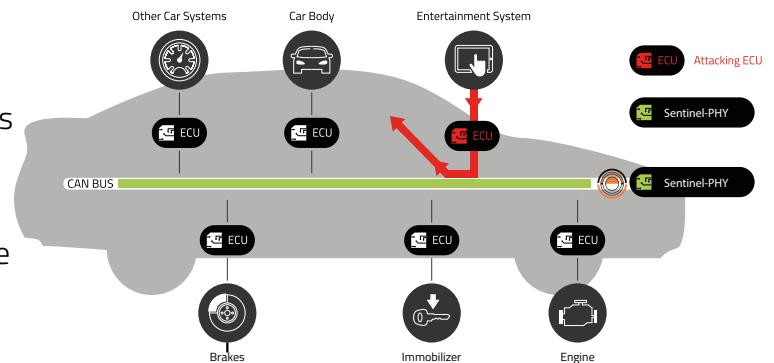
- Message Origin Authentication
- Real-Time Interception



### BENEFITS:

Arilou Sentinel-PHY provides hermetic network protection from a single point by identifying the origin of ECU messages. This reinforcement renders any attack against the control area network ineffective, turning the CAN bus into an extremely secure network.

- **Hermetic** An ECUs biometric-like identity is used to prevent any kind of impersonation attack.
- **Central Installation** A single installation seals the whole network
- **No Maintenance** Automatically adapts to vehicle ECU changes over time
- **Full Lifecycle Support** Seamless integration with production and maintenance line processes
- **No Maintenance:** Automatically adapts to vehicle ECU changes over time
- **Full Lifecycle Support:** Seamless integration with production and maintenance line processes
- **Real-Time Interception** Drops malicious messages in parallel to compromised ECU transmission with zero latency and 100% accuracy
- **Technological Breakthrough** Overcomes the three major limitations of traditional IDS/IPS solutions: False positives, integration limitations, and latency.



### 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.

V2020\_10