Arilou’s Sentinel-CAN is a software-based intrusion detection system (IDS) with an optional intrusion prevention system (IPS) mechanism. The most advanced cybersecurity suite on the market, Sentinel-CAN secures a vehicle’s internal communication channels against cyber-attack.

**Features**

- **Network Baseline** establishment using machine learning from traffic recordings and DBC files
- **Anomaly Detection** Context aware, stateful operation
- **Message Inspection** formality and plausibility (signal ranges, rate changes)
- **Protocol Flow Validation** based on timing and order among other variables
- **Attack Mitigation (Configurable)** Denial-of-Service prevention, whitelisting and firewalling capabilities
- **Maintenance** Secure updates
- **Reporting** Advanced event logging, both cloud-based and local
- **Rogue Message Drop** in optional IPS mode

**INTEGRATION ARCHITECTURE:**

Arilou offers flexible implementation modes tailored to meet OEMs needs and architecture environments.

- **Inspect** Ethernet traffic vs. the configured rules set
- **Detect and report** attacks based on any deviation from the established profile and rules. Optional prevention discards divergent frames.
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.

- High-End Security
- Easy Integration Fully configurable, no architecture changes are required
- Reduces Costs Improves reliability & increases profitability
- Available as Software Only Integrates with existing ECU hardware
- Platform Agnostic Supports multiple real-time and higher-level environments
- Enables Innovation Secures next generation connectivity technologies
- CAN and CAN-FD Support