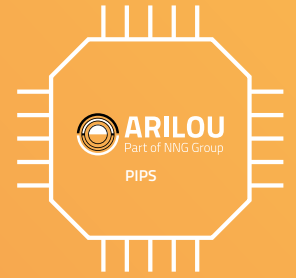


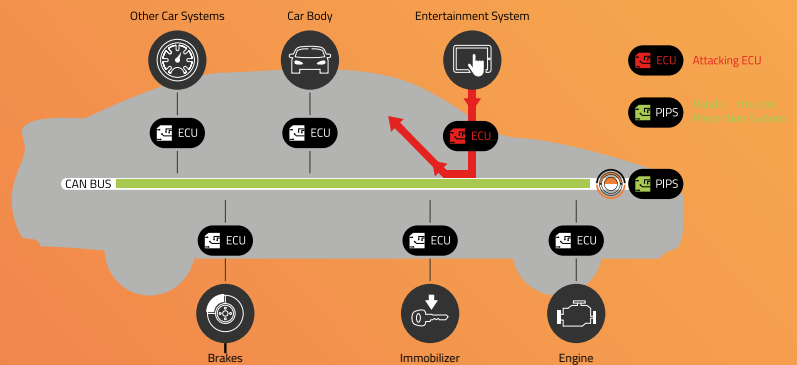
PARALLEL INTRUSION PREVENTION SYSTEM (PIPS)

PIPS technology provides hermetic network protection from a single point by combining Source ECU Detection and Deep Packet Inspection techniques. PIPS analyses, in real time, every command and message that is sent on the bus. By physically authenticating the message source, authorizing it, and checking the content and the context of the messages, PIPS can intercept malicious messages originating from any hijacked electronic control unit (ECU). This reinforcement renders any attack against the control area network ineffective, turning the CAN bus into an extremely secure network.



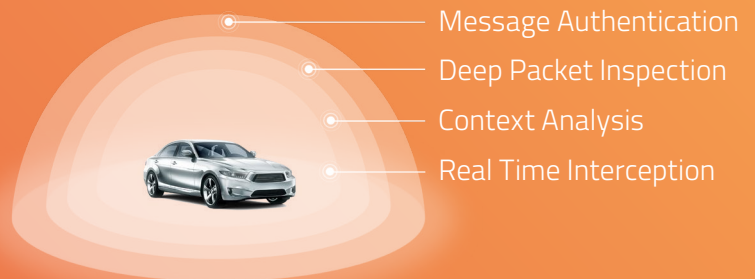
BENEFITS:

- **Accurate Authentication:** An ECUs biometric-like identity is used to prevent any kind of impersonation attack.
- **Multi Layered Security:** Message Authentication | Deep Packet Inspection | Context Analysis | Real Time Interception
- **Real Time Interception:** Drops malicious messages in parallel to the compromised ECU transmission | Zero latency | 100% Accuracy
- **Central Installation:** A single PIPS 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
- **Technological Breakthrough:** Overcomes the three major barriers of traditional IDPS solutions
False Positives | Integration Limitations | Latency



TECHNOLOGY:

- **Patent Protected Proprietary Technology**
- **Automatic Machine Learning Algorithms**
- **Unique ECU Classification**
- **Configurable Prevention Schemes**



ABOUT ARILOU:

Arilou Cyber Security, part of NNG Group, is a pioneer in the field of cyber security. Arilou delivers deep automotive industry knowledge and unique expertise. Successfully tested by the United States Department of Transportation, leading research institutions, and major OEMs, Arilou's solutions are available today for integration.

For additional information and to learn more about our complete cyber security portfolio please visit ariloutech.com.

V2018_09