

CANpress

CAN Message Frame Compression

TECHNOLOGY:

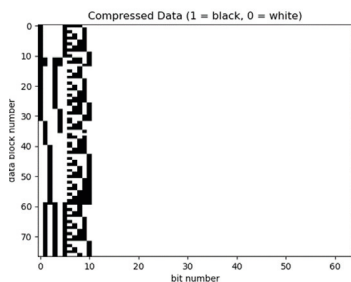
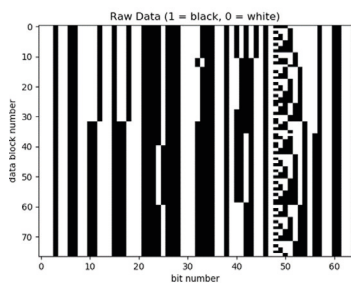
Arilou **CANpress** extends the viability of current **Controller Area Networks (CAN)**. This software-only solution is designed to reduce network bandwidth utilization – extending the lifespan of current network architectures, preventing to need for, and expense of, migration to other technologies.

Frame Compression

- Improves network performance and bandwidth capacity by over 30%
- Average message data reduction of 50%

BENEFITS:

Software-based, **CANpress** is lightweight and unobtrusive. As modern in-vehicle networks become more complex, our solution allows for greater efficiency in CAN architecture design.



- **Software-Based** – No heavy resources required, allowing for the use of existing CAN architectures, reducing cost
- **Compact** – Lightweight, unobtrusive code allows for optimal performance
- **Lossless** – No data is lost during the compression and decompression process
- **Stateless** – Messages are compressed and decompressed independently
- **Backward Compatibility** – No need to change gateways or non-participating ECUs as frame format remains unchanged.
- **Network Longevity** – Improved network efficiency extends CAN operative lifetime
- **Standardized:** ISO 9001, ISO 26262 and ASIL-B compliant.
- **No DBC Needed:** – No prior knowledge of message field definitions required

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.

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