

Arilou and Green Hills collaborate

The two companies announced at CES 2019 in Las Vegas to integrate Arilou's Intrusion Detection and Prevention System (IDPS) with the Green Hills Integrity real-time operating system (RTOS).

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Securing CAN communication is an increasingly issue, especially for automated driving vehicles (Photo: Arilou)

Automotive cyber security is a hot topic for carmakers. With the rise of connected cars, the threat is increasing. Cars have become networked computers with wheels. Each function of the vehicle is controlled by an ECU (electronic control unit). In-vehicle networks connect dozens of ECUs. Without appropriate protection, these networks can be vulnerable to malicious hacking as has been seen demonstrated by recent well-publicized attacks by researchers.

Arilou and Green Hills Software are joining forces to secure the CAN communication between ECUs by implementing a dedicated version of the Arilou IDPS solution on the Integrity platform. This enables automotive manufacturers using the Green Hills RTOS to transparently install Arilou's Umtri-tested IDPS adjacent to the safety applications also running on Integrity, thereby detecting and preventing any CAN targeted malicious attacks.

"We are more than excited to provide our CAN security capabilities for Green Hills Software, who have an incredible background in the automotive industry," commented Ziv Levi, CEO of Arilou. "We see the huge challenge cyber security means for the automotive industry and we believe that the right approach is to form partnerships like this one, securing the car on each level."

"It's very exciting to be able to demonstrate that CAN networks can be protected by the Arilou UMTRI-tested IDPS running in a secure partition on Integrity," stated Chris Tubbs from Green Hills. A demonstration of this capability will be presented on the Green Hills booth (#3715) in the North Hall of Las Vegas Convention Center at CES 2019. Visitors can see how the safety-critical telltales on a safety-critical instrument cluster are protected against a CAN network spoofing attack by the Arilou software hosted in a secure Integrity partition.

Israel-based Arilou, part of the NNG Group, is a provider of cyber security solutions to the automotive industry. OEMs and institutions such as the University of Michigan Transport Research Institute (UMTRI) have tested independently the IDPS security solution.

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