

Karamba Security Collaborates with Ficoso to Secure the Future of Smart Mobility Against Cyberattacks

Ficoso to implement Karamba's Embedded Runtime Integrity solution, Carwall, to harden the Telematics Control Units and V2X ECU's against cyberattacks

BLOOMFIELD HILLS, Mich., and HOD HASHARON, Israel – December 5, 2018 – [Karamba Security](#), a world-leading provider of end-to-end automotive cybersecurity prevention solutions, today announced that [Ficoso](#), a top-tier global provider for the automotive and mobility sectors, is partnering with [Karamba Security](#) to harden its Telematics Control Unit (TCU) and keep vehicles protected from cyberattacks when communicating with the internet. Ficoso, through [Onboard Ventures](#), its Open Innovation initiative, has identified Karamba Security's Carwall solution as an effective hardening software that is seamlessly integrated into the vehicle Electronic Control Units (ECU's), without disrupting the development process or delay the vehicle's time to market.

Karamba Security's software prevents in-memory cyberattacks, by hardening the ECU's according to developers' intentions and autonomously prevents unauthorized deviations from factory settings. Karamba's software introduces Control Flow Integrity (CFI) which is automatically embedded in Ficoso's development process, not relying on source code, with negligible runtime performance impact.

Having secure, hardened ECU's is a major differentiator for Ficoso, offering out-of-the-box, automatically secured, ECU's. With Karamba's Embedded Runtime Integrity solution, Ficoso will propose self-protected ECU's to its OEM customers that will deterministically prevent cyberattacks, without false positive alerts or major investments in costly data analytics and security updates.

"We are happy to offer hardened ECU's to our customers to prevent cyberattacks that target our products. As a manufacturer, we were impressed with Karamba's prevention solution, negligible overheads and seamless integration required," said Edouard Rozan, Managing Director at Onboard Ventures (Ficoso International). "Karamba's Embedded Runtime Integrity technology is the best match, in terms of security and performance, to our needs for in-vehicle cybersecurity."

"We are excited to partner with Ficoso, a leading top-tier global provider, to harden their ECU's of choice. This successful relationship proves that Carwall-based hardening offers superior security with negligible performance impact and ease of integration that is unique to our patented technological approach to CFI," said Ami Dotan, Karamba Security's CEO. "Working with Ficoso allows Karamba to secure the automotive industry future as it evolves to Smart Mobility."

Meet Karamba Security's executives, learn about this partnership and the latest technologies and trends for in-vehicle security and see the partners ecosystem that is developing around automotive cybersecurity by visiting Karamba Security at CES 2019 Booth #929.

About Ficoso

Ficoso is a global company devoted to the creation of high-technology vision, safety, efficiency and connectivity solutions for the industry, with the desire to contribute to society through our commitment to technological innovation, human values and energy efficiency. Founded in 1949 and based in Barcelona, Ficoso currently has more than 10,500 employees in 19 countries worldwide in Europe, North and South America, Asia and Africa, with consolidated sales of €1.208 billion in 2017. The rear-view

system (interior/side mirror) is Ficoso's main business, known worldwide and recognised by top global OEMs. www.ficosa.com

About Karamba Security

Karamba Security provides industry-leading automotive cybersecurity solutions for autonomous and connected cars. Its Autonomous Security software products, including ThreatHive, Carwall, and SafeCAN, provide end-to-end in-vehicle cybersecurity for the endpoints and the internal messaging bus. Karamba Security's award-winning solutions prevent cyberattacks with zero false positives and secure communications, including OTA updates, with negligible performance impact. Karamba is engaged with 17 OEM and tier-1 customers and received numerous industry awards. More information is available at www.karambasecurity.com and follow us on Twitter [@KarambaSecurity](https://twitter.com/KarambaSecurity).

Karamba Security Business Contact:

Amir Einav, VP of Marketing
amir.einav@karambasecurity.com
1-214-620-7320

Media Contact:

PAN Communications
Kyle Tildsley
Karamba@pancomm.com
1-617-502-4300