

Press Release

embedded world 2021 DIGITAL

eSOL and Karamba Security Combine Strengths to Protect Mission-Critical Connected Assets

*eMCOS[®] microkernel RTOS with powerful XGuard protection and threat analytics
boosts cyber-protection for automotive and Industrial IoT applications.*

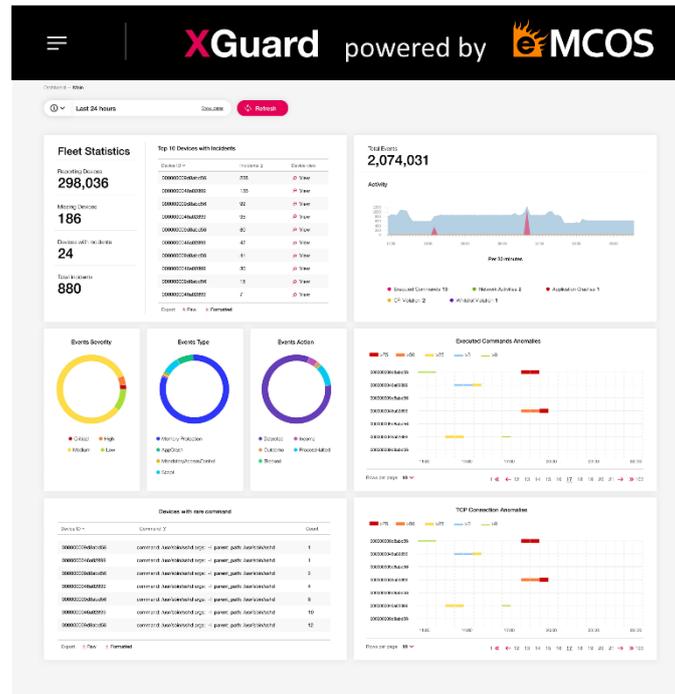
Hod Hasharon, Paris and Tokyo, February 26th, 2021 – eSOL, creator of the eMCOS[®] multikernel (distributed microkernel) RTOS, and Karamba Security, a world-leading provider of embedded cybersecurity, have combined eSOL's eMCOS and Karamba's XGuard solutions to offer advanced cyber-protection for connected cars and smart-factory equipment.

“Karamba Security is excited to enhance its partnership with eSOL,” said Ami Dotan, Karamba Security's CEO and Co-Founder. “Extending XGuard support to protect eMCOS and eMCOS Hypervisor will enable customers to benefit not only from the extremely advanced OS architecture, but also from seamless protection of customer applications.”

“Integrating the cyber-protection features of eMCOS and Karamba's XGuard platform delivers unprecedented assurance for mission-critical and safety-critical connected assets,” said Bob N. Ueyama, Executive Vice President at eSOL. “In addition to strengthening attack resistance, the resulting solution secures applications proactively through advanced monitoring and analysis.”

As the only commercially available multikernel RTOS, eMCOS is uniquely conceived to fulfil emerging automotive and industrial use cases that require high throughput multicore computing with hard real-time performance while ensuring safety and security. eMCOS not only provides custom flexibility and scalability, but also simplifies developers' tasks by being optimized for software-defined architectures that will be used for future edge computing in embedded systems such as autonomous vehicles and real-time IoT applications like factory automation or industrial robots. The eMCOS real-time hypervisor provides virtualization to enable safe applications with mixed criticality.

When running seamlessly on eMCOS, Karamba's XGuard enables applications to protect themselves against cyber-attacks. XGuard provides patented, automatic policy generation that identifies legitimate binaries, as well as anti-tampering and event reporting of attacks that assists root-cause analysis. Moreover, the XGuard embedded security agent connects to Karamba's XGuard Monitor that provides continuous attack detection and response. Leveraging hybrid local and cloud-level analytics, XGuard product suite features powerful forensic tools to identify attackers' behavior and generate actionable intelligence.



For more information and to see eMCOS and XGuard in action, visitors to this year's embedded world DIGITAL trade fair (March 1-5, 2021), can engage with eSOL and Karamba Security throughout the event.

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About eSOL Co., Ltd

Founded in 1975 and listed on the First Section of the Tokyo Stock Exchange (TSE: 4420), eSOL is a leading global company in the fields of embedded systems and edge computing that seeks to contribute to a safer and better-connected society. eSOL's high-performance and scalable software platform products and first-class professional services, centered around its unique and patented eMCOS multikernel real-time operating system (RTOS) technology, are used worldwide in demanding embedded application fields which conform to stringent quality, safety and security standards. This includes automotive systems as well as industrial equipment, satellites, medical and digital consumer electronics. In addition to the research and development of its leading-edge products, and joint research with major manufacturers and universities, eSOL is actively engaged in AUTOSAR, Autoware and multi/many-core technology standardization activities.

For more information, please visit: <https://www.esol.com/>

- * Autoware is an open source software built on ROS/ROS 2 for autonomous driving.
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- * Karamba Security, XGuard, XGuard Monitor are registered trademarks or trademarks of Karamba Security Ltd.
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About Karamba Security Ltd.

Karamba Security is the world leader in IoT endpoint security, providing award winning, seamlessly embedded, cybersecurity solutions for connected devices. Manufacturers in automotive, Industry 4.0, enterprise edge and Industrial IoT rely on Karamba's products and services to protect their connected devices against cyberattacks. Fortune 100 companies, automotive OEMs, tier-1 providers and other manufacturers of connected devices trust Karamba's solutions for protecting their customers against cyberthreats.

More information is available at www.karambasecurity.com and follow us on Twitter [@KarambaSecurity](https://twitter.com/KarambaSecurity).

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