



EXEIN ANNOUNCES WORLD-CHANGING EMBEDDED SECURITY SOLUTION

Ground-breaking open-source security solution will safeguard billions of devices

SAN FRANCISCO , CALIFORNIA , USA, November 9, 2020 /EINPresswire.com/ -- A few lines of code embedded in the firmware is all it takes to offer multi-layer, virtually impenetrable protection for the world's hugely vulnerable Internet of Things (IoT) devices.

Edge security specialist [Exein](#), based in Rome and San Francisco, has developed what CEO Gianni Cuzzo describes as "the fastest security countermeasure ever built" - an open-source mathematical model that can detect threats autonomously at speeds significantly faster than any existing solution.

Platform agnostic, the Exein Core is a developer tool operating as an embedded component from within hardware. Once grafted into firmware, Exein Core uses convolutional neural networking to learn the legitimate behaviours of a device. Armed with that knowledge, it can then detect anomalies and external threats at unprecedented speeds without the need for cloud computing support.

The potential for this world-changing product is enormous. According to McKinsey, "the worldwide number of IoT-connected devices is projected to increase to 43 billion by 2023". Others predict higher numbers: 100 per person, or one trillion by 2025. Firmware is the Achilles Heel – a security soft spot that is typically awarded just 1% of protection budgets and continues to offer easy ingress for criminals.

"It's not just about thwarting ransom threats," says Cuzzo. "The exploitation of firmware can affect our safety too. Aviation, automobiles and home safety systems can all be targeted. Exein Core, applied to the firmware of any and all IoT equipment at the manufacturing stage or retrofitted to existing devices, can stop such attacks. This is a world-changing product that represents an entirely new way of approaching IT security".

Crucial to the integrity of Exein Core's host-based defence mechanism is its open-source nature – a feature Cuzzo champions with passion. "I believe that the mathematical theory driving this innovation has the potential to make life safer", he says.

About Exein, the global developer of the first Open Source security framework for IoT:

With headquarters in Rome and San Francisco, Exein comprises an international team of developers focused on neutralising the immense security threat posed by connected smart devices and the vulnerabilities carried within their firmware. Attacks that target routers, cameras, and other non-personal computer devices are on the rise and the most common solutions, using handwritten rules to tackle known vulnerabilities, leave devices vulnerable to any unknown attack. In order to combat this persistent and growing menace, Exein has developed the first Open Source security framework for IoT, SCADA firmware systems. It operates as an embedded component from within the hardware, acting from the firmware core and stopping any external threat. Exein Technology uses Convolutional Neural Networks to learn the expected behaviour of a device and uses this understanding to constantly monitor its functioning and protect it from cyber-threats, both known and unknown.

To learn more about Exein and the future of cybersecurity, visit: <https://www.exein.io>

Phoebe Irving
PR MEDIACO
phoebe@prmediaco.com

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