



RIoT Secure: Transforming IoT Security with Innovation and Vision

RIoT Secure makes it possible to unlock the full potential of IoT security.

We started by realizing the urgent need for fast, secure interventions following the terror attack in Stockholm in 2017. We decided to build the world's first secure-by-design lifecycle management platform for connected devices. With deep embedded systems experience from our product team, we developed a platform that protects connected devices from emerging threats in real time.

From Startup to Industry Leader

As the years have gone by, what was initially a R&D-focused startup has become a company that has solutions now accepted by industry veterans. We have received awards at various levels, including IoT Breakthrough Awards award for IoT Startup of the Year and were also fortunate to be named a finalist in TechCrunch Disrupt's Startup Battlefield 200. Today our technology is bringing real-world impact to secure the IoT infrastructure in critical sectors, and our deployment at Stockholm Arlanda Airport demonstrates that the reliability and effectiveness of our solution in large-scale, high-stakes situations are not disputed.

A Secure IoT Lifecycle, From Start to Finish

At the core of RIoT Secure is a fully integrated IoT security and lifecycle management platform developed for both developers and enterprises. We help ensure protection of devices from onboarding until decommission, with real-time monitoring, secure firmware updates and policy enforcement.

Our proprietary communication protocol reduces the transmission time considerably more than 90% faster than HTTPS/MQTT achieving efficiency while maintaining top-tier security. We use a hardware sandbox model to separate security, communication, and application functions, to isolate and protect the security functions even after a device is compromised.

With integrated cloud integration and data routing that works seamlessly, businesses can focus on their applications and not get bogged down in IoT communication hassles.

Cutting-Edge Technology for a Safer Tomorrow

What sets us apart is our commitment to hardware-



Aaron Ardiri
CEO & Co- Founder

Reflecting on RIoT Secure's vision, Aaron Ardiri shares:

"We ensure a secure IoT for resource constrained microcontrollers based on decades of experience with mobile gaming, emulation, and microcontrollers, so integrated devices can be guaranteed to be secure without a large footprint."

On emerging trends, he adds:

“Secure edge computing is becoming a crucial necessity as the adoption of AI moves beyond the cloud to the edge, and RIoT Secure is well-positioned as a security platform for AI-driven edge devices.”

based security; while many other providers use software to encrypt and authenticate their devices, our hardware sandbox architecture ensures that even if an end-point device is broken it's security functions will be isolated and undetected.

From our MicroTLS protocol we bring next-generation cryptography to resource-constrained devices, as we provide lifecycle management in the protocol itself. Meanwhile our microcontroller interconnect framework FUSION guarantees the independence of application functions from security, even in the event of external attacks.

For simple fleet management, our OASIS platform offers a REST API and a management console so you can automate monitoring, firmware updates, and policy enforcement at scale.

Powering the Future of IoT with Strategic Partnerships

Our growth is based on strategic partnerships with industry leaders. We've partnered with EIT Digital to create AI-powered predictive maintenance solutions that help enterprises prevent downtime with a combination of real-time insights and our partnership with SAS Ground Service Handling at Arlanda Airport shows us in practice how our platform can be used in mission-critical environments.

Embracing the Edge: Leading the Shift to Secure AI-Driven Devices

As we see AI adoption shifting from the cloud to the edge, the demand for secure, real-time decision-making

is growing. At Avaya, we're leading this trend by delivering a security-first platform for edge devices with AI-driven models that ensure that AI models running on edge devices are secure even in dynamic, high-risk environments.

Our solution offerings are also advanced and comply with an extensive range of regulation requirements, such as the EU Cyber Resilience Act, providing our customers with peace of mind in a ever more regulatory environment.

Built by Experts, Driven by Innovation

RIoT Secure is lead by an elite group of industry experts with a stake in redefining the security landscape for IoT. Our CEO and Co-Founder, Aaron Ardiri, is widely regarded as a leading academic expert in embedded systems and security who co-authored and designed our hardware sandbox model as well as our patented communication protocol.

Together with him, Björn de Jounge, our Business Development Director and Co-Founder, oversees strategic growth and market expansion, building partnerships that further enhance our industry position.

Securing the Future of IoT

With our products constantly advancing and growing, RIoT Secure is unwavering in our commitment to deliver the trusted, hardware first security solutions that protect connected devices from tomorrow's threats. Equipped with leading edge technology, strategic partnerships, and innovative leadership, we are not just securing IoT—we are shaping its future.



Secure Device Lifecycle Management for IoT

