



## **RIoT Secure AB** – Revolutionizing the Future of IoT Security with Energy-Efficient Solutions, Resilient Cryptography, and a Vision for a Safer, Connected World

**A**s the world becomes more interconnected through the Internet of Things (IoT), the possibilities for innovation seem limitless. Yet, with this rapid expansion comes the pressing challenge of securing the vast network of devices. This is where **RIoT Secure AB** steps in. RIoT Secure is a company dedicated to delivering reliable, scalable, and accessible security solutions for every IoT device, no matter its size or complexity. RIoT Secure doesn't just safeguard data; it empowers the future of IoT with a foundation of trust and confidence.

At RIoT Secure, security is at the heart of everything they do. The company, founded in Stockholm, Sweden, understands that as the IoT ecosystem continues to grow, so too does the need for robust and scalable protection. Their mission is to ensure that security is accessible to all IoT devices, from the most resource-constrained sensors to the most complex gateways.

RIoT Secure's comprehensive solutions, including their Secure Lifecycle Management Platform, provide businesses with real-time control and monitoring of their IoT devices, ensuring smooth and

secure management. The company is not just a security provider, but a trusted partner in innovation, equipping businesses with the tools they need to grow and evolve with confidence.

We at CIO Bulletin had the distinct honor of interviewing Aaron Ardiri, CEO of RIoT Secure AB, where he shared invaluable insights into how he and his expert team are shaping the future of IoT security, creating a world where connected devices can operate with complete confidence and trust.

### **The Genesis of RIoT Secure AB**

RIoT Secure AB was founded out of the necessity to address critical security vulnerabilities within the rapidly expanding IoT ecosystem. As CEO Aaron Ardiri recalls, *"The idea for RIoT Secure was conceived during discussions among our founders. We realized early on that the burgeoning field of IoT was critically underserved in terms of security."*

The team was deeply motivated by high-profile breaches and the potential catastrophic outcomes of unsecured IoT devices. *"We were motivated by the increasing*

*awareness of these breaches and the risks they posed. We saw the urgent need to not only secure these devices but to also ensure they could perform optimally despite the limitations inherent in IoT technologies,"* says Aaron.

Initially, RIoT Secure focused on foundational security for IoT devices. However, as the industry evolved, so did their vision. *"Over the years, our mission has expanded beyond just securing devices to include a holistic approach to device lifecycle management. We realized that security alone wasn't enough; we needed to consider the entire ecosystem's needs."*

Today, RIoT Secure's mission continues to adapt with the industry, ensuring IoT devices can operate with confidence and trust across a more comprehensive and secure ecosystem.

### **Overcoming Technical Hurdles and Creating State-of-the-Art Solutions**

In the early days of RIoT Secure, the team faced significant technical challenges when developing security solutions for resource-

constrained, low-power IoT devices. As CEO Aaron explains, *"Developing effective security solutions for these devices involved tackling limitations in processing power and memory capacity. We developed proprietary, lightweight cryptographic algorithms designed to perform efficiently on small-scale devices, drawing on decades of experience in embedded solutions within our founding team."*

The team's focus was on optimizing code and minimizing power consumption without compromising security. *"We spent countless hours testing and iterating to strike the perfect balance between performance and power use."* This approach led to the creation of solutions that offer high-level security without compromising device performance, setting a new industry standard.

As the IoT landscape continued to grow, RIoT Secure's solutions evolved to meet the increasing demand for scalability and sophistication. One of the company's flagship offerings is its Secure Lifecycle Management Platform for IoT. This platform provides robust security measures

throughout the device lifecycle, including secure boot processes, encrypted communications, and seamless integration with enterprise systems. *"It not only facilitates secure onboarding and real-time monitoring but also enables over-the-air updates and predictive maintenance, providing an unmatched level of service in a market demanding both security and scalability."*

Through relentless innovation, RIoT Secure continues to stay ahead, setting the bar for IoT security in a rapidly evolving industry.

## Revolutionizing IoT Security with Energy-Efficient, Future-Ready Solutions

At RIoT Secure, the company's cryptographic technology sets itself apart by addressing the unique challenges posed by low-power, resource-constrained IoT devices. While traditional cryptographic methods often assume devices have abundant computational resources and

power, RIoT Secure's technology is built with efficiency and minimal energy consumption in mind.

*"Our cryptographic solutions are designed specifically for IoT devices, where battery life and computing power are limited,"* says Aaron. *"We reduce the computational overhead and streamline data transmissions, allowing devices to maintain high security standards without compromising performance."* This innovative approach has even led to a patented solution (US 11,997,165 B2), reducing operational costs and extending the device's longevity.

Energy harvesting, a key enabler for low-power devices, is another area where RIoT Secure is making significant strides. The company is focused on integrating energy-harvesting capabilities with its security solutions, creating self-sustaining devices that don't sacrifice security. *"Our goal is to develop security protocols that are not only energy-efficient but also capable of operating independently from traditional power infrastructures."* This forward-thinking approach positions RIoT Secure as a leader in creating

## Meet the Ardent Visionary behind Secure RIoT AB's Unwavering Success

Aaron Ardiri, Co-founder and the CEO of RIoT Secure AB, epitomizes the blend of innovation and expertise that defines the company. With nearly three decades of experience in software engineering—particularly within resource-constrained environments—Aaron has brought a visionary approach to the evolving field of cybersecurity.

Under his leadership, RIoT Secure has not only navigated multiple growth phases but has also cultivated a team culture centered on continuous innovation. As an early adopter of emerging technologies, Aaron has pioneered groundbreaking solutions and holds multiple patents that underscore his commitment to redefining IoT security. His unwavering dedication and forward-thinking insights continue to inspire the company and position RIoT Secure as a global leader in the cybersecurity landscape.



secure, autonomous, and resilient IoT devices that meet the growing demands for sustainability and security.

## Shaping the Future of IoT Security for a Connected World

As the Internet of Things (IoT) expands rapidly, security challenges are growing just as quickly. For RIoT Secure, staying ahead of these emerging threats—particularly for resource-constrained devices—is central to its mission. The company's proactive approach to research and development has been key to

ensuring their solutions remain ahead of the curve.

*"We continuously monitor the threat landscape and build updates that not only react to existing vulnerabilities but anticipate and prevent new ones. One of the key innovations in our strategy is our hardware sandbox. By ensuring that data collection and processing occur isolated on the device, we eliminate potential attack surfaces and protect against ongoing cyber threats,"* extols Aaron.

This forward-thinking approach combines traditional security methods with advanced techniques tailored for devices

with limited computational power and memory. By focusing on efficient, scalable solutions, RIoT Secure ensures that its security protocols remain relevant as IoT grows in scale and complexity.

Looking ahead, RIoT Secure is poised to expand into new technological and geographical territories. *"We are excited about integrating blockchain technology for enhanced security and exploring new markets where IoT adoption is accelerating. Ultimately, our goal is to make RIoT Secure AB synonymous with trust and reliability in the IoT security space,"* concludes Aaron Ardiri. 

## RIoT Secure Wins Prestigious "IoT Startup of the Year" Award

*"For our 9th annual program this year we saw thousands of nominations come in from the best and brightest IoT companies all over the world. IoT Breakthrough is thrilled to officially inform that RIoT Secure has once again been selected as a winner in the IoT Breakthrough Awards program, this year RIoT Secure taking home the "IoT Startup of the Year". Congratulations on the back-to-back wins! Our goal each year is to deliver the most comprehensive analysis of the IoT industry, from connected home to industrial and enterprise IoT solutions – and with thousands of nominations, the industry evaluation was broad and extremely competitive for the 2025 program. Other winners include industry giants like Cisco, Google Nest, Ericsson and an impressive list of top companies and startups in the larger IoT industry."*

— Steve Johansson, Managing Director at IoT Breakthrough

***"Our goal is to make RIoT Secure AB synonymous with trust and reliability in the IoT security domain."***

## Quick Facts about the Company

**Company Name:** RIoT Secure AB

**Founding Year:** 2017

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**Founder/CEO:** Aaron Ardiri, Björn de Jounge

**Target Audiences:** System Integrators, Developers

**Top Clients:** SAS Ground Service Handling

**Office Locations:** Stockholm