

Aaron Ardiri

Architecting a Secure Foundation for the IoT Revolution

Founder & CEO | RIoT Secure AB

The Internet of Things (IoT) bridges the physical and digital realms, unlocking new levels of efficiency and innovation. But with this hyper-connectivity comes a critical set of challenges: pervasive security vulnerabilities, system fragmentation, and the complex task of managing devices over extended lifespans.

At the forefront of addressing these challenges is **Aaron Ardiri, Founder & CEO of RIoT Secure AB**—recently named “**IoT Startup of the Year**” in the 2025 IoT Breakthrough Awards.

With over 25 years of expertise in embedded systems and software development, Ardiri applies his strong technical background, including co-authored patents in security, to build foundational architectures that prioritize resilience. This award, along with the company’s previous recognition as “**Emerging Company of the Year for the Enterprise Market**” in the 2024 IoT Breakthrough Awards program, underscores RIoT Secure’s standing in the prestigious international awards program that recognizes standout Internet-of-Things companies and products. Under Ardiri’s leadership, RIoT Secure continues to solve core industry problems, providing secure, scalable, and sustainable IoT solutions that empower businesses to innovate with confidence.





Aaron Ardiri

CEO & Founder



RIoT Secure AB



Stockholm, Sweden



2017



<http://www.linkedin.com/in/ardiri>



The Architect of Resilience

Aaron’s journey into IoT reflects foresight shaped by necessity. With a background in mobile and embedded systems, he recognized early the vulnerabilities of fragmented, power-constrained devices needing long-term secure operation. The turning point came after the 2017 Stockholm terrorist attack, which underscored the life-saving importance of being able to remotely control devices in emergencies in a secure way. In response, he founded RIoT Secure AB, committed to building a connected future that is not only intelligent but inherently secure and resilient.

Early on, Ardiri and his team faced skepticism, costly, unreliable connectivity, and absent regulations. They countered by prioritizing simplicity and resilience, building intuitive modules that worked under the toughest constraints. Proving value in high-risk environments like airports and forging strategic partnerships, they demonstrated real ROI. Credibility grew organically through evidence over hype, laying the foundation for RIoT Secure AB as a leader in addressing modern IoT security challenges.

Leadership Lessons from the Frontlines of Tech

Aaron’s leadership philosophy has been shaped by pivotal career transitions from startup acquisition to platform-building, each offering lessons in innovation, scale, and principled decision-making. The acquisition of a mobile startup by BlackBerry (Research In Motion) in 2011 taught him how to translate ideas into a scalable reality and manage growth complexities. Later, choosing to build a security-by-design IoT platform before demand reinforced persistence and deep problem-solving. These experiences shaped his belief that authentic leadership requires steadfast technical vision while remaining agile in execution and partnerships.

This philosophy defines Ardiri’s leadership style, centered on building lasting solutions, fostering talent through trust and autonomy, and valuing substance over showmanship. By keeping RIoT Secure founder-owned, he ensures accountability to mission and customers, enabling long-term thinking, deep innovation, and a culture where vision and integrity outweigh short-term results.



A Hardware-Anchored Approach to IoT Security

At the heart of RIoT Secure AB’s differentiation is Aaron’s conviction that IoT security must be inherent, not an afterthought. From the outset, Ardiri built the platform around secure lifecycle management, realized through the patented μ TLS protocol and **FUSION** dual-microcontroller sandbox. This hardware-anchored design creates isolated yet coordinated device control and firmware updates, embedding resilience directly into every device.

Its greatest advantage lies in solving a major industry limitation: enabling secure **Over-The-Air (OTA)** updates and lifecycle management on simple microcontrollers that cannot natively support them. By introducing a secure “**supervisory**” controller, Ardiri and his team deliver a unified, resource-efficient, developer-agnostic framework unique in the market. This innovation allows clients to achieve strict compliance and sustain long-term performance without the massive engineering costs typically required for secure, scalable IoT deployments.

From Theory to Runway

The true measure of IoT innovation is performance under pressure, exemplified by RIoT Secure AB’s deployment with SAS Ground Service Handling at Stockholm’s Arlanda Airport. By embedding its secure lifecycle management platform into ground support equipment, Aaron Ardiri and his team introduced real-time tracking, predictive maintenance, and automated billing. The impact was immediate over 90% reduction in connectivity data, fewer maintenance errors, and recovery of significant revenue lost to inaccuracies.

What sets this apart is resilience and longevity: a securely managed, OTA-updatable IoT infrastructure that has run seamlessly in a mission-critical, offline-capable environment for more than four years. This enduring success proves that RIoT Secure’s architecture is not just innovative but also sustainable, providing a validated blueprint for deploying secure, scalable IoT with measurable operational and financial returns.

COVER STORY

The Next Frontier of IoT Innovation

Aaron positions the convergence of *Edge AI and WebAssembly (WASM)* as the defining technological shift in IoT over the coming half-decade. Edge AI facilitates real-time, intelligent decision-making directly on devices, reducing reliance on cloud connectivity and enabling critical autonomous operation. In parallel, WebAssembly (WASM) matters briefly for a non-technical reader, which was originally designed for secure web applications, now enables portable, high-performance code to run on virtually any device, greatly simplifying development and deployment.

RIoT Secure AB is proactively engineering this future through the development of a secure *WASM runtime* integrated into its BRAWL and SHIELD modules. This allows developers to uniformly deploy and update sophisticated logic, even AI models across varied hardware platforms using standard high-level languages. By uniting WASM’s portability with localized intelligence, RIoT Secure is not just adapting to these trends but actively constructing the foundational framework for the next generation of scalable, secure, and intelligent edge solutions - while also ensuring intellectual property is protected from tampering or disclosure.

RIoT Secure AB’s Journey in Numbers

RIoT Secure AB’s growth and success are best illustrated through key metrics that highlight its technical innovation and market validation:

Here are some of the highlights under Aaron Ardiri’s leadership:

Patented Protocol cuts transmitted data

90%, lowering costs and boosting efficiency.

Industry Recognition

Two IoT Breakthrough Awards, including “IoT Startup of the Year.”

Lean and Expert Team

Bootstrapped, founder-owned, 8 engineers in embedded systems, security, and hardware.

Substantial Client Savings

High-security deployments deliver millions in cost savings and proven ROI.

Proven Deployment Longevity

Over 4 years of 24/7 mission-critical operation.

Exploring Partnerships to Amplify Impact

RIoT Secure AB is actively exploring strategic pathways to extend the reach of its technology under the guidance of Aaron Ardiri. The company is engaged in exploratory discussions with hardware module providers to embed its proprietary secure lifecycle management technology directly into their stacks, a strategic move championed by Aaron that would make robust security an out-of-the-box feature for a wide range of devices.

Furthermore, RIoT Secure has garnered interest from industrial integrators regarding potential licensing agreements and collaborative joint solution builds. While Aaron emphasizes that the company is not actively seeking an acquisition, he maintains a principled openness to strategic partnerships or even joining a larger platform. Any such move, Ardiri insists, must align with RIoT Secure’s core mission of product integrity and demonstrate potential to significantly amplify its global scale and impact.



The Principles of Data Security and Ethics

For RIoT Secure AB, ensuring data security, privacy, and ethical governance is not a secondary feature but the foundational principle of its architecture. The company bakes security into every layer of its technology through encrypted communication, cryptographically signed firmware, isolated execution environments, and secure hardware-based key storage.

A core tenet of its privacy policy is that it does not collect or retain client data; all information is either relayed transparently through its secure systems and stored directly within the customer’s own cloud environments, ensuring complete data ownership and control for the client. Furthermore, its technology is designed to support compliance with evolving global standards. Ethically, the company treats IoT as a public trust, which is why its systems are engineered for full transparency, auditability, and the highest possible resilience against tampering or misuse, ensuring that security and ethics are intrinsically linked in every deployment.

COVER STORY

A Foundation Forged by Foresight and Focus

RIoT Secure AB’s trajectory has been shaped by bold decisions from Aaron, none more critical than his early commitment to building a secure lifecycle management protocol and architecture from scratch. This years-long R&D investment, with no immediate return, proved visionary, positioning the company as a leading solution once market regulations and security demands emerged. The bet enabled transformative successes, including **SAS Ground Handling**, where IoT deployments eliminated manual errors, streamlined maintenance, and improved billing accuracy to save millions while restoring trust in connected systems.

To balance innovation with sustainability, Ardiri has kept the company founder-owned, prioritizing integrity and real-world impact over rapid scale. This disciplined approach ensures RIoT Secure’s roadmap stays aligned with real customer needs, priming the company for strategic, value-driven global growth.

The Human Engine: Culture as a Catalyst for Innovation

At RIoT Secure, innovation starts with people, built with a team grounded in long-standing collaboration, mutual trust, and deep technical expertise. The core team have worked together for decades, forming a close-knit culture that fosters creativity, problem-solving, and shared purpose. They aren’t just colleagues, they’re friends who code together, brainstorm freely, and laugh often.

This sense of genuine camaraderie is no accident. Aaron has intentionally nurtured a space where mutual respect fuels creativity, encourages bold experimentation, and makes solving tough IoT security challenges a shared mission. At RIoT Secure, people don’t just support the process; they are the soul of innovation.

A Record of Excellence and Innovation

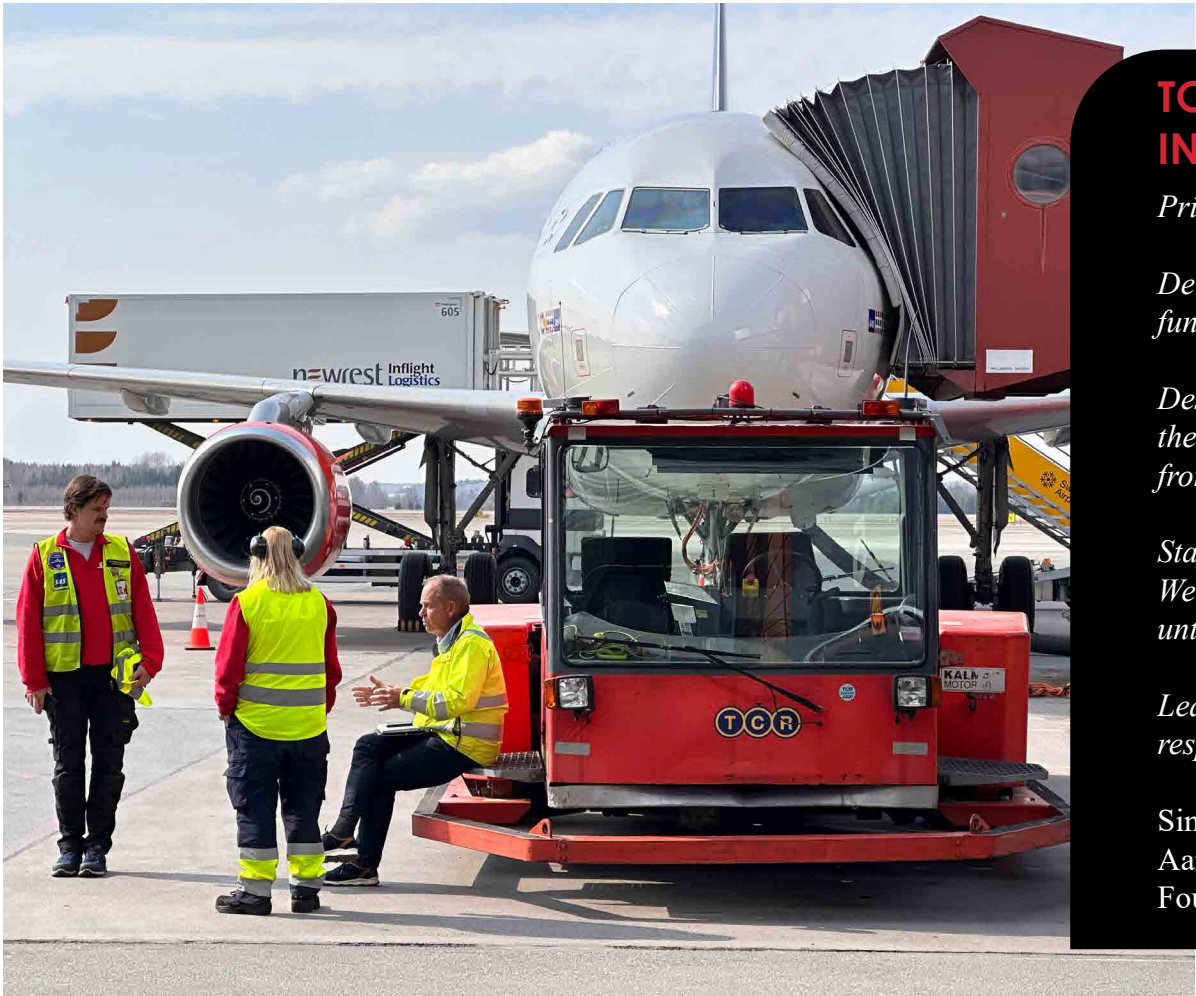
RIoT Secure AB’s innovative approach to secure IoT lifecycle management, driven by the vision of founder and CEO Aaron Ardiri, has earned significant industry acclaim and media attention. For a complete and verified list of achievements, the company maintains dedicated sections on its website.

Here are some of the coverage and awards:

Press & Media Coverage:
<http://www.riotsecure.se/press/>

Company Awards:
<http://www.riotsecure.se/awards/>

Team Recognition:
<http://www.riotsecure.se/awards-team/>



TO THE NEXT WAVE OF IOT INNOVATORS,

- Prioritize security without compromising speed.*
 - Deliver solutions quickly, but never at the expense of fundamentals.*
 - Design with longevity and compliance in mind, because the devices you deploy today will still operate a decade from now.*
 - Stay curious, embrace emerging technologies like WebAssembly (WASM) and edge AI, and explore the untapped potential these frontiers offer.*
 - Lead with vision, build with integrity, and shape the future responsibly.*
- Sincerely,
Aaron Ardiri
Founder & CEO, RIoT Secure AB

