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## **ProvenRun and CryptoNext Security Announce Strategic Partnership for Quantum Safe Trusted Execution Environment (TEE) Solutions.**

- Post-quantum crypto-agility capabilities integrated into the ProvenCore Operating System and TEE
- Targeting the embedded market, particularly in aerospace and defense, automotive and broader semiconductors/IoT
- Two experts joining forces in a long-term strategic alliance

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**Paris, France – March 11th, 2025** – ProvenRun and CryptoNext are thrilled to announce a strategic partnership aimed at enhancing security solutions for the embedded sector. This collaboration will see ProvenRun adding CryptoNext's Post-Quantum Cryptography (PQC) components to its catalog of trusted applications, enabling customers to seamlessly integrate cutting-edge security technologies.

### **Addressing the Quantum Threat**

With the advent of quantum computing, traditional cryptographic methods are becoming obsolete. CryptoNext, a leader in post-quantum crypto agility, offers innovative solutions designed to mitigate these threats. By incorporating CryptoNext's PQC components, ProvenRun will provide its customers with future-proof security measures, ensuring long-term protection against evolving cyber threats.

### **Future-Proof Security for Critical Industries**

This partnership aligns with the goals of both companies to serve the customers of trusted industries over the long term, particularly in the automotive and defense sectors. ProvenRun's expertise in secure-by-design software solutions, combined with CryptoNext's advanced cryptographic technologies, will offer customers a comprehensive and robust security framework.

### **A Strategic Alliance for the Long Term**

ProvenRun's ProvenCore, an advanced secure Operating System/Trusted Execution Environment (TEE), will now include CryptoNext's PQC offerings. ProvenCore, crafted to deliver unmatched security for IoT devices, is the first operating system to achieve complete formal verification and to hold the prestigious Common Criteria EAL7 certification. This integration provides customers with a seamless transition to post-quantum security and crypto agility, ensuring that their systems remain secure in the face



of emerging threats. In particular, this integration ensures secure update of algorithms, end-to-end chain protection of crypto operations and enforcement of security policies.

*"This partnership creates an end-to-end high-assurance stack for post-quantum security. With CryptoNext, ProvenRun delivers a trusted, post-quantum secure execution environment tailored across embedded and Cloud."* – Dominique Bolignano, Founder and Chairman, ProvenRun

*"ProvenRun's commitment to security and innovation makes them an ideal partner for CryptoNext. Together, we will provide the embedded sector with unparalleled security solutions, addressing the challenges posed by quantum computing."* – Jean-Charles Faugère, Founder, CryptoNext

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## **About ProvenRun**

ProvenRun's mission is to provide its customers with the trusted products and services that will help them embed security within their infrastructure of connected devices wherever this is required, at the chip, device, edge or cloud levels.

With secure-by-design off-the-shelf solutions and security consulting services, ProvenRun resolves the security challenges arising from the IoT revolution while dramatically improving the protection against remote cyberattacks.

ProvenRun serves customers across industries mainly in the Automotive, Aerospace/Defense, Transport, Industrial, Telecom sectors, the IoT/Consumer device OEMs and the Semiconductor & IP suppliers.

## **About CryptoNext**

CryptoNext Security is a software company specializing in post-quantum cryptography (PQC) and crypto-agility management solutions. Founded in 2019, the company builds on more than 20 years of academic research in the field of post-quantum cryptography.

CryptoNext Security empowers organizations to seamlessly transition their products, systems, and IT/OT infrastructures toward crypto-agile cybersecurity, ensuring long-term resilience against quantum threats. Its solutions also help anticipate and mitigate cryptographic risks over time.

CryptoNext counts among its clients renowned players in the finance, defense, industry, and institutional sectors, where long-term security is paramount.





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