

Our Mission



ProvenRun provides high-assurance security for critical digital infrastructures across embedded and cloud environments.

Our technologies protect **sensitive data** and **mission-critical operations** in regulated ecosystems where trust, robustness, and certification are essential.

Embedded Systems

For more than 15 years, ProvenRun has secured high-stakes embedded environments, including **defense, avionics, automotive, and industrial systems**.

Our solutions are deployed as **security-critical products** requiring certification, isolation, and long-term robustness.

Cloud & Digital Infrastructure

Building on this heritage, ProvenRun extends high-assurance security to the **cloud** with ProvenHSM, bringing **formal** verification, hardware-backed trust, and strong cryptographic guarantees to modern **infrastructures** and regulated digital services. This dual presence reflects a single objective: bringing **defense-grade** assurance to cloud-scale systems.

Why ProvenRun



Security by design

Security is enforced at the architecture and design level, eliminating entire classes of vulnerabilities before deployment

Formal verification

Mathematically proven security properties down to the machine-code level ensure confidentiality, integrity, and isolation

High-assurance made practical

Our technologies reduce certification friction, operational complexity, and lifecycle costs for complex architectures such as Arm and RISC-V, across both embedded and cloud environments

Cybersecurity experts

Team behind the 1st smart hardware EAL7 certification, TEE concept inventors & developers of ProvenCore (the only OS with CC EAL7).

ProvenRun products Built by Composition



Proven HSM

ProvenHSM combines formal security, composability, and cloud-native operations to deliver a truly high-assurance, certified HSM.



Deep Filtering System

A certifiable communication filtering solution enforcing strict isolation between components of different criticalities.



Secure IVI Platform

A security platform protecting in-vehicle infotainment systems and sensitive services such as DRM and Android-based environments.



ProvenCore

The certified foundation everything else is built on

Formally verified secure OS providing strong isolation and trust.

Products



Proven Apps

Ready-to-use building blocks for high-assurance systems

Secure storage, cryptography, TLS and VPN, firewalling, secure firmware updates...

Trusted by Industry Leaders

Cloud: HSM-backed KMS for regulated environments.  OVHcloud

Defense: Hardware security solutions.  SAFRAN

Automotive: Secure ethernet traffic filtering & cockpit security for connected vehicles.  RENAULT 

eIDAS QTSPs: Innovation boxes for advanced cryptography and post-quantum readiness.

