



Safeguarding the most sensitive data and communications

QUANTINUUM



FORNETIX®

QUANTUM
ORIGIN



FORNETIX[®]

is a cybersecurity platform enabling Zero Trust while delivering critical encryption automation, access controls, authorization services, machine identity, and ICAM solutions to the federal government and enterprises around the globe.

Goal

To provide customers with unrivaled protection against sophisticated cyber attacks that threaten the integrity and privacy of their highly sensitive data and communications.

Strengthening the foundation of encrypted communications

Security teams face a growing challenge to reduce cyber risks threatening the confidentiality and integrity of sensitive data and communications.

The existing encryption measures deployed by enterprises and governments can be vulnerable to sophisticated attacks against the encryption layer that leverage emerging technologies to expose highly sensitive data.

Now, two recognized leaders in their fields, **Fornetix** and **Quantinuum**, offer an integrated solution that hardens encryption protection by uniquely strengthening the underlying cryptographic processes. This level of resilience is increasingly important as organizations seek to build their plans for future resilience, as directed by the National Security Memorandum on Promoting United States Leadership in Quantum Computing While Mitigating Risks to Vulnerable Cryptographic Systems (NSM-10).

Seamless security

Integrating **Quantum Origin** into **Fornetix VaultCore®** delivers quantum-computing-hardened keys directly into Fornetix's VaultCore solution to strengthen the cryptographic foundations of secure communications and protect the most sensitive data.

Fornetix VaultCore® is a leading unified key orchestration solution that helps securely orchestrate cryptographic key management. Quantum Origin is the world's first cryptographic key hardening platform to derive strength from the world's most powerful quantum computers to strengthen keys.

Meeting the highest cybersecurity standards is a key consideration for Fornetix, and integrating Quantum Origin maintains conformance with FIPS 140-3 and the guidance issued under NSM-10. And, as a fully integrated Quantum Computing company, Quantinuum provides the certainty of supply chain integrity that Fornetix and its customers need.

Equally important is ensuring that adding enhanced security measures does not reduce availability for the user and Quantum Origin integrates into the VaultCore solution without any impact on the latency or performance.

The joint solution is highly scalable and works with all of the finalists of NIST's post-quantum cryptographic standardization process, eliminating the need for hardware upgrades once the algorithms are standardized.

“Integrating Quantum Origin and VaultCore means that together we can deliver a solution that provides the strongest data security for our customers, without compromise”

Chuck White, Chief Technology Officer, Fornetix

Applying Innovation

Fornetix's first commercial application for this integrated solution sees them join an ecosystem of partners to create a full-stack solution that secures in-flight communications. Going forward, there are plans to expand the solution to telematics, data center communications, SOCOM wireless networking, and Zero Trust network use cases.

About Quantum Origin

QUANTUM ORIGIN

uses the unpredictable nature of quantum mechanics to generate quantum-computing-hardened cryptographic keys and strengthen protection for the most valuable data.

To learn more about strengthening your cybersecurity with Quantum Origin, visit quantinuum.com or contact origin@quantinuum.com

