

CORE COMPETENCIES

Find Fix Defend

EnQuanta provides patented, mission-grade cryptographic frameworks that protect National Security Systems (NSS) and critical enterprise estates against quantum and AI-augmented cryptanalytic threats. Software-only, deployable on legacy systems today, without hardware retrofit.

QuantaView CRYPTOGRAPHIC INTELLIGENCE

Automated cryptographic discovery and inventory (ACDI) across endpoints, servers, network, PKI, Kubernetes and OT; live CycloneDX 1.7 CBOM with ML-DSA-signed exports; quantum-risk scoring over a 127-algorithm catalog; 39 compliance frameworks scored by default; one-click, human-approved, fully reversible remediation. On-premise and air-gapped.

QuantaCrypt CRYPTO-AGILE PROTECTION

Dynamic-hybrid post-quantum core delivered as an OpenSSL 3.x provider, SDK, Storage and Vault. Classical and NIST PQC algorithms stacked and rotated by policy for data at rest, in transit and in use; hybrid TLS 1.3 key establishment (QuantaStack).

QuantaPass INTELLIGENT ACCESS

Passwordless identity on WebAuthn/FIDO2 passkeys with quantum-sourced challenges and PQ-protected credentials; deepfake-rejecting voice and face verification (QuantaTrust) with passive liveness and nothing biometric stored: 1,000 of 1,000 voice clones rejected.

Anti-tamper QUANTACRYPT VAULT

Software-only protection for firmware, keys, secrets and the memory they sit in, from servers down to embedded ARM32-class microcontrollers. Protected images are statistically indistinguishable from random noise; algorithm rotation by policy and offline license validation for equipment that never comes home.

DIFFERENTIATORS

Validated today, not on a roadmap.

Validated cryptography: FIPS 140-3 validated cryptographic module, CMVP certificate #5312 (Active, software-only). NIST PQC algorithms (ML-KEM, ML-DSA, SLH-DSA) delivered through a CAVP-validated provider, with module-boundary PQC validation in process. The only software-only solution among validated PQC vendors as of August 2026.

Dynamic-hybrid, assumption-diverse: stacked and randomized classical and PQC algorithms spanning independent hardness assumptions, so no single cryptanalytic breakthrough defeats the protection; security never falls below the AES-256 and ML-KEM validated anchor. Operational protection against harvest-now, decrypt-later (HNDL) collection now.

Crypto-agility by policy: intent-based cipher stacks rotate and upgrade without redeployment, keeping operational continuity across evolving threat cycles. CNSA 2.0 aligned.

Infrastructure neutral: software-only architecture integrates with legacy platforms and cross-domain, tactical and intelligence-sharing environments; no rip-and-replace.

Validated through U.S. DoW programs: OSD Strategic Capabilities Office SBIR Phase I, no material impact across five test areas; anti-tamper security for a frontline weapon system under a multi-year U.S. military contract; multi-year white-box penetration testing by the University of Alabama in Huntsville could not reconstruct protected data.

Kept secret by the U.S. government: 18 patent filings held under secrecy orders at the request of ONR with NSA, the only such orders issued to a private filer in FY2025, before negotiated release of the dual-use commercial version.

CREDENTIALS

- **FIPS 140-3** CMVP certificate #5312 (Active, software-only); module-boundary PQC validation in process
- **NIST PQC** ML-KEM, ML-DSA, SLH-DSA through a CAVP-validated provider
- **QRNG entropy** Quantinuum Quantum Origin, NIST SP 800-90B ESV #E214
- **U.S. Patents** 12,627,480 B1 and 12,712,724 B1
- **Facility clearance** Secret, DD2345 #0087060; personnel cleared to Secret and TS/SCI
- **CNSA 2.0** aligned

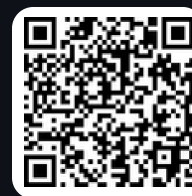
OTA CONSORTIUM AFFILIATIONS

C5 · COBRA · DOTC · AMTC · IWRP · NSTIC · MSTIC · SOSSEC · NSTXL · IBAS PM · MATAC

NAICS CODES

- 541511** Computer software programming services
- 541512** Network systems integration design
- 541715** Computer and hardware R&D laboratories
- 513210** Applications software, computer, packaged

VULCAN SCOUT CARD



Scan for the DoD Vulcan profile

Briefings, scoped demos and controlled evaluations:
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