



# Safeguarding National Security against AI/Quantum Threats.

## Change the Keys; not the Locks

AI and quantum computing pose a well recognized threat to National Security. In fact, China in particular has invested heavily in both AI and quantum computing in order to break current encryption algorithms. In response, Entrokey Labs has developed and patented **a scalable, stateless, software-only solution that enables our nation's warriors immediate crypto-agile mission assurance without change to hardware or platforms.** Entropy is foundation of cryptological security, and our technology delivers **unparalleled entropy levels at-scale--well beyond current NIST standards--ensuring American assets remain resistant to emerging AI-driven brute-force attacks, impending quantum threats, and existing "harvest now, decrypt later" vulnerabilities. We do this while saving the taxpayer unprecedented amounts of existing allocated and planned budget.**

Our real-time demonstrated entropy scores approach the theoretical maximum ensuring resilience against the most advanced decryption techniques. Entrokey's solution is designed for maximum adaptability and **seamless integration across on-premises, off-premises, and edge environments.** It serves as the universal entropy source, adaptable to any algorithm used by the DoD and IC. Entrokey Labs also provides an **auditing tool that continuously analyzes entropy scores,** to ensure—in real time—national security grade entropic keys.

### Benefits of Entrokey's Software-Defined Approach for Cryptocurrency Exchanges and Wallets

- Extends cryptographic resilience against AI threats today and quantum threats by over a decade
- Real-time entropy scoring for every key
- Millisecond transaction speeds
- Plug-and-play deployment ensures cost-effective no lethality reductions
- Pushes out crypto modification requirements
- Infinitely scalable, delivering real-time, zero-latency key generation and distribution
- Avoids fragility and external interference common in hardware-based solutions
- No infrastructure changes needed. Evolves alongside hardware and software infrastructure
- Crypto-agility, when and where you need it. Operations can be on-prem, cloud or edge environments

**Ready to rethink encryption? Let Entrokey Labs future-proof your security.**

Discover more at [entrokeylabs.com](https://entrokeylabs.com)

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