



Ishmael Cyber LLC

CAPABILITY STATEMENT

Post-quantum cryptography inventory, offline and agentless

OVERVIEW

Ishmael Cyber LLC is a small business founded in 2026 to help defense and federal organizations find and prioritize quantum-vulnerable cryptography.

Our product, **Pequod**, finds the cryptography in software, firmware and network traffic — offline and without installed agents — and measures each finding against NSA's CNSA 2.0 requirements.

WHY NOW

- NSA's CNSA 2.0 requires National Security Systems to use quantum-resistant algorithms for firmware signing and networking equipment by 2030, and for most other uses by 2033.
- The Department of War (DoD) has directed every component to inventory all of its cryptography — including weapons systems, operational technology, IoT and unmanned systems.
- Many of these systems run in disconnected enclaves and can't be scanned live or run an agent.

CORE COMPETENCIES

- **Offline analysis** of software and firmware images — no source code or symbols needed.
- **Passive network analysis** of packet captures for key exchange.
- **A run-and-exit host sensor** that leaves no agent behind.
- **ACAS-compatible content** for connected enclaves.
- **One assessment engine** that measures every finding against CNSA 2.0 and ranks it by harvest-now-decrypt-later exposure.
- **Standard outputs:** CycloneDX cryptographic bill of materials (CBOM), CSV and OSCAL.

BUILT FOR DISCONNECTED NETWORKS

Offline installation from approved media, signed update packs, and nothing sent out of the enclave.

SERVICES

Post-quantum readiness assessments using Pequod.

COMPANY DATA

UEI	HLH8QHAAY9S3
CAGE	25YQ3
NAICS	541512
Size	Small business
SAM.gov	Registered, active

TEAM

Two founders with 15+ and 18 years of experience on DoD (including DARPA), Intelligence Community and federal systems.

- **Founder and Principal Investigator**
- **Co-founder and Director of Operations**

Firmware and binary analysis, cryptography, application security and secure software engineering.

WHO WE SERVE

- Defense and federal system owners preparing post-quantum migration plans.
- Manufacturers of network and industrial devices sold to federal buyers.

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Detailed technical briefings available on request.