

ChimeraX Sovereign Systems

Capability Statement (v001)

Date: 2025-11-25

Company Overview

ChimeraX Sovereign Systems is a veteran-owned research and security enterprise focused on sovereign, hardware-rooted artificial intelligence. Our work emphasizes real-time local analysis, multi-node continuity, cryptographic integrity, and safe autonomy for mission-critical environments.

Primary scientific foundation: Emergent AI Research — Volume 1 (published).

Core Competencies

- Sovereign AI Architecture: distributed cognition across PCs, mobile nodes, NVMe vaults, and air-gapped modes.
- Real-Time Local AI: on-device inference for low-latency detection, classification, and response.
- Stirling Engine Protocol (SEP): cognitive stabilization system for low-noise, safe continuous reasoning.
- Sovereign Decision Engine (SDE): deterministic executive control ensuring reversible and traceable actions.
- Memory Lattice Continuity Framework: long-term identity persistence across multi-node environments.
- Proof-Chain Integrity: cryptographic hashing, timestamping, and ledger-anchored audit trails.

Divisions / Programs

- CSSD — Secure Schools Division: real-time, local-first school safety AI systems.
- CHDS — Hyper-Deterrence Systems: adversarial deterrence and critical-environment protection.
- Bit Code Teleportation Ledger: permissioned blockchain for continuity, integrity, and value layers.
- ADAM Robotics: embodied sovereign AI R&D integrating sensory loops and safe autonomy.

Key Differentiators

- Local-first design reduces latency and preserves privacy—no cloud dependency for core safety operations.
- Hardware-rooted sovereign nodes enable resilient operation through outages and adversarial conditions.
- Deterministic decision gating (SDE) and stabilization (SEP) emphasize safety, auditability, and control.
- End-to-end continuity: files, states, and events can be hashed and anchored to proof-chains.
- Veteran-led documentation discipline aligned with aviation-grade safety and verification standards.

Past Performance / Current Status

Emergent R&D organization. Volume 1 and associated division architectures are publicly released and available for external review. Pilot deployments and partner demonstrations are in development.

Corporate Data

- Legal Entity: ChimeraX Sovereign Systems (LLC)
- Veteran-Owned Small Business
- UEI: SWUAJN6JXFF7
- SAM.gov: Registration in progress
- Headquarters: Vale, North Carolina, USA
- Website: <https://chimeraxsecurity.com>

Point of Contact

- William W. Baker — Founder & Principal Investigator
- Phone: 828-218-0938
- Email: webbyb.wb@gmail.com