

WHAT SLS DOES

Sovereign Logic Systems LLC develops resilient embedded-system architectures for mission-critical environments. MED CLOUD CIPHER(TM) is SLS's flagship R&D initiative: a bounded continuity architecture intended to preserve trusted critical information through defined power, communications, processing, or storage disruptions and support recovery from a valid committed state.

- CORE CAPABILITIES
- Embedded-system resilience and deterministic continuity architecture
  - Failure detection, bounded-state preservation, recovery, and integrity verification
  - Real-time embedded systems and mission-critical engineering
  - Verification and validation planning; controlled failure testing and evidence development
  - Secure emergency-access, provenance, freshness/status, and attestation concepts

MED CLOUD CIPHER(TM)

A complementary resilience layer - not an EHR, ePCR, or primary mission-system replacement. Current Prototype 1 work is focused on a narrow bounded record, interrupted-transaction integrity, nonvolatile commit behavior, post-failure recovery, and signed attestation.

- POTENTIAL APPLICATION DOMAINS
- Emergency response & clinical handoff
  - Operational medicine & defense systems
  - Medical devices & mobile platforms
  - Aerospace, robotics & industrial systems

COMMERCIALIZATION DIRECTION

SLS intends to pursue OEM, enterprise-platform, and strategic technology licensing relationships. The essential CIPHER capability is envisioned as an embedded baseline rather than a separate patient or first-responder subscription. Integration and performance claims remain evidence-gated.

- KEY DIFFERENTIATORS
- Continuity-first design for degraded or interrupted operating conditions
  - Bounded-data model rather than replication of full enterprise records
  - Recovery from a valid committed state with integrity and provenance context
  - Engineering claims tied to measured evidence, validation milestones, and documented agreements
  - Designed for eventual integration into established device and enterprise ecosystems

FEDERAL & RESEARCH POSITIONING

SLS is an early-stage small business pursuing federal R&D, research collaboration, and technical validation pathways relevant to resilient systems, emergency information continuity, operational medicine, and degraded environments. Government innovation engagement is described only as submitted/reviewed activity unless an award, contract, endorsement, or deployment is separately documented.

COMPANY IDENTIFIERS

|                  |                         |
|------------------|-------------------------|
| UEI              | R1Y8D7H253G9            |
| CAGE             | 1AQN2                   |
| PRIMARY NAICS    | 541715                  |
| ADDITIONAL NAICS | 541512   541330         |
| SAM.GOV / DSBS   | Registered              |
| NIH ERA COMMONS  | Organization registered |

LEADERSHIP & CONTACT

Jon Spencer | Founder & CEO

NIH eRA Commons Signing Official (SO)

ORCID: 0009-0004-7036-3656

Technical leadership includes systems engineering and enterprise architecture expertise.

jonspencer@sovereignlogicsystems.com

sovereignlogicsystems.com

SLS POSITIONING

Preserve the truth when everything else fails.

Non-confidential | Research & engineering capability overview