

SSX360 CORP.

Capability Statement

DOCUMENT	SSX360-CAP-0001
REVISION	A (supersedes: None)
DATE	2026-09-05
CLASSIFICATION	PUBLIC
DISTRIBUTION	Distribution unlimited. Public record.
RESPONSIBLE	Ryan James York, Founder & Chief Executive Officer

1. COMPANY

SSX360 Corp. is a Delaware corporation (incorporated June 2026; operating as SSX360 since 2024) based in Honolulu, Hawai‘i. It works in three areas: hardware security, cryptographic provenance, and two-dimensional carbon thin films; sells cybersecurity products and scoped services; and runs a self-funded research programme whose results are published openly.

LEGAL NAME	SSX360 Corp.
ENTITY	Delaware C-corporation, founder-owned, self-funded; small business
ADDRESS	1413 South King Street, Unit 202A, Honolulu, HI 96814, United States
WEB / E-MAIL	https://ssx360.com • mission@ssx360.com
POINT OF CONTACT	Ryan James York, Founder & Chief Executive Officer • ORCID 0009-0007-5979-7949
AFFILIATIONS	Cyber Risk Institute (CRI), Innovator member, 2026 • Partner: Pacific Global Security Group, Honolulu

2. CORE COMPETENCIES

- **Hardware security.** Secure-element signing devices and hardware roots of trust for witnessed and resident signing; deployment records, custody review and scheduled upkeep. Component lists, board designs and transports are not published.
- **Cryptographic provenance.** Signed, offline-verifiable evidence packages; Mandate Chain Verification (MCV-1), a published criteria set for machine authorization; the Space Order criteria ladder; Matrix Scroll, an Apache-2.0 provenance protocol and verifier; post-quantum signature migration planning (FIPS 204 ML-DSA, FIPS 205 SLH-DSA, including Category 5 parameter sets).
- **Two-dimensional carbon thin films.** Raman characterisation of sp^2 carbon, qualified inversion pipelines with declared failure modes, cryptographically provenanced measurement (append-only Ed25519 ledger, instrument-signed journals, release gates).
- **Scoped assessments.** Authorized penetration tests, provenance snapshots for acquirers, vulnerability and audit reports, and sector stability assessments across logistics, defense, finance and climate, each

delivered with named scope, method, limits and a signed evidence package.

3. DIFFERENTIATORS

- **Keys stay with their owners.** Signing keys are held in hardware under stated custody; the verifier holds no keys for the systems it verifies.
- **Verification a reviewer can run.** Every delivered record verifies offline with open, Apache-2.0 software and no SSX360 account.
- **Published criteria and corrections.** MCV-1 and the Space Order are versioned public documents; corrections are issued in public on the original URL.
- **No overclaim.** Framework references are evidence mapping, not certification. SSX360 holds no facility clearance, no CMMC certification and no ITAR registration, and states so before it is asked.

4. REPRESENTATIVE WORK

- Signed technical reports RPT_001–RPT_004 (Intelligence Log, 2026) on credential reuse, failure boundaries, evaluation-scope escape and hiring-fraud verification, each with sourced counts and a corrections record.
- Space Order criteria V1.0 (SSX360-CRITERIA-0001, issued 25 Aug 2026) and the MCV-1 methodology with public verification registry.
- Terminus: append-only ledger of signed action receipts with per-actor numbering and gap detection (Go core, independent Rust verifier).
- Findings 2026.2–2026.4 (synthetic Raman corpus, learned inversion, release gate) and preprint v2.0, “Resolving the Raman crystallite size turnover in nanocrystalline graphite with a synthetic benchmark” (2026-09-05), published at ryanjamesyork.com.
- Digital-forensics evidence preservation for a Hawai‘i commercial client under written authorization (2026; client confidential).

5. RESEARCH AND DISCLOSURE POSTURE

Fundamental research is published openly with sources and digests. Technical content is screened against export-control obligations before release. Key personnel maintain ORCID records and biographical sketches in the OSTP common-form structure; the public web presence is reconciled with proposal disclosures. Research security and disclosure statement: SSX360-RSS-0001. Key personnel: SSX360-BIO-0001. Facilities: SSX360-FAC-0001. All four are served with SHA-256 digests at <https://ssx360.com/documents>.

PREPARED BY	TITLE	DATE
Ryan James York	Founder & Chief Executive Officer	2026-09-05