CAPABILITY STATEMENT

OBJECTSECURITY LLC

Founded: 2000

Location:

815 E Street, Box #12070
San Diego, CA 92101
USA

DUNS Number:
828934914

NAICS:
513210, 541511, 541519, 611420

CAGE: 6WY05

Entity:
Small Business (SAM-Registered)

UEI:
QC48DJN27WZ3

Awardable:
Platform One Marketplace, Tradewinds, SBIR Phase III

NIST 800-171:
BASIC (CUI)

Patents & Awards

12+ issued patents (additional pending)

AFWERX finalist

Gartner “Cool Vendor” (prior recognition)

CEO/Owner:
Ulrich Lang, PhD

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objectsecurity.com

DOD-FOCUSED SOFTWARE & AI ASSURANCE

WHO WE ARE

ObjectSecurity LLC is a San Diego–based small business founded in 2000 that builds mission-grade software assurance technologies for high-consequence systems. We expose hidden, high-impact risks in binaries, AI/ML models, and complex software where traditional tools provide insufficient assurance.

Our work exposes high-impact weaknesses in binaries, AI/ML models, and complex software where conventional security tools fall short.

CORE PRODUCTS

BinLens™ Binary & Software Vulnerability Analysis

Mission-grade software assurance platform for binaries, bytecode, and source code. Uncovers concrete, exploitable vulnerabilities with repeatable, evidence-backed findings for on-premises and air-gapped environments.

BINLENS

binlens.com

FortiLayer™ AI/ML Model Security & Assurance

White-box analysis of AI/ML models to identify model-specific vulnerabilities, failure modes, and trust gaps, with actionable mitigations for high-assurance operational deployments.

FORTILAYER

fortilayer.ai

DIFFERENTIATORS

- DoD-funded R&D transitioned into deployable products
- Deterministic, evidence-backed analysis (paths, traces)
- For on-prem, air-gapped, high-consequence environments
- 20+ years of government-sponsored security R&D
- Active internal R&D and experimental labs
- Trusted by DoD, NIST, DHS, DARPA, and allied agencies

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TECHNICAL CAPABILITIES

SOFTWARE & BINARY ASSURANCE

- Deterministic analysis of binaries, bytecode, and source code for mission software, embedded systems, and OT/ICS (Navy, DARPA, Army, DTRA, DHS SBIRs)
- Interactive AI assistant and agentic workflows for vulnerability investigation and remediation
- Analysis of proprietary, legacy, and third-party software without source code
- Binary software composition and component vulnerability analysis
- Fully on-premises and air-gapped; BinLens™ is DoD fielded and SBIR-commercialized

AI / ML & CYBERSECURITY

- AI/ML model vulnerability, failure-mode, trust-gap analysis with mitigation guidance (USAF SBIR)
- Wireless and sensor-network cybersecurity research across multiple protocols, including CBM+ and 5G (Navy STTR)
- FortiLayer™ product, SBIR-commercialized

5G / SATCOM CHARACTERIZATION & VULNERABILITY ANALYSIS

- Automated characterization of 5G/NR protocols, components, and deployments
- Identification of exploitable weaknesses and trust gaps in expeditionary and high-assurance environments (Navy SBIR – Char5G)

SUPPLY CHAIN & MICROELECTRONICS RISK ANALYSIS

- ERP and logistics data analysis to identify supply-chain risk indicators (Navy SBIR)
- PCB anomaly, counterfeit, and provenance risk analysis using analytics and computer vision (AFWERX finalist)
- Supply-chain data transformation for maintenance and logistics optimization (USAF / Army SBIRs)

ACCESS CONTROL & POLICY AUTOMATION

- Model-driven access-control and Zero Trust policy automation, testing, and assurance (NIST, Army, Navy, USAF SBIRs)

CYBER RED TEAM AUTOMATION (R&D)

- AI-enabled automation of network-based cyberattack techniques and defender interaction modeling (MDA SBIR)

PROVEN IN GOVERNMENT PROGRAMS & INDUSTRY

Backed by DoD R&D

- 20+ SBIR / STTR efforts across Navy, Space Force, Army, Air Force, DARPA, DTRA, DHS, NIST, MDA, and others. Full government R&D history: *objectsecurity.com/rnd.*

Proven Transition to Products

- SBIR-funded R&D transitioned into deployable capabilities, including BinLens™ (TRL 8, fielded) and FortiLayer™.

Mission-Grade Expertise

- Deep expertise in vulnerability analysis for binaries/software, AI/ML models, and 5G/SATCOM systems in high-consequence environments.

DoD Awardable

- Awardable via Platform One, Tradewinds, and SBIR Phase III.



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