

CAPABILITIES STATEMENT

About Us

Listen.
Collaborate.
Create.



Cadence2Completion (C2C) takes operational technology from requirements through acquisition, test, training, fielding, and sustainment. We work beside program offices and operators on sensors, non-intrusive inspection, surveillance, and the mission data those systems produce — for U.S. Customs and Border Protection (CBP), U.S. Border Patrol (USBP), and the U.S. Army. The team combines systems-engineering depth with law-enforcement and operational experience. We staff quickly when a sponsor needs people on the ground, communicate in the customer's process, and stay through training and sustainment so the system works in the field — not only in a review.

Systems Engineering / T&E

- Full SELC/ALF support: FRDs, SOWs, CDR/PDR/SRR/ORR/SIR, RTVMs, architectures, requirements traceability, and trade studies for programs with lifecycle value up to \$1B.
- Certified DHS Operational Test Director leading developmental and operational T&E, interoperability testing, and field-trial frameworks. INCOSE-certified staff with UL, ASTM, ASME, and IEEE standards expertise across 100+ technology programs.
- NII support: 30+ systems evaluated, performance testing at 5+ sites, training at 20+ CBP sites, and 1,000+ devices acquired for the field. Body-worn camera support: test, training curricula, and an 8,000-system technology refresh in three months.

Systems Integration

- Low-level COTS/GOTS and proprietary sensor integration — custom hardware, firmware, and messaging protocols connecting optics kits, EO/IR imagers, GPUs, GPS, RF transceivers, power supplies, and pan-tilt assemblies.
- Algorithm development for acoustic, seismic, magnetic, EO/IR, and hyperspectral sensors: statistical methods, CLAHE, spectral/spatial transforms, computer vision, anomaly detection, and sensor fusion, including dust mitigation for MW/LW IR.
- Open-standards authoring and implementation: CDIF (adopted by SOCOM, DIA, CENTCOM, and INSCOM), Cursor on Target (CoT), and ISA protocols integrated with TAK, G-BOSS, and BETSS-C to deliver a unified operator picture.

Security & Surveillance

- Land, air, maritime, and subterranean surveillance and force-protection support for U.S. Army, CBP, and USBP missions. Integration of radar, EO/IR cameras, acoustic/seismic/magnetic sensors, sonar, and NII systems for detection, identification, classification, and tracking across nuclear-to-chemical signatures.
- Unattended ground sensor (UGS) support: 5,000+ sensors inventoried and sustained across 85 stations in 13 sectors; 150+ agents trained; field engineering (mounts, solar, comms) and multi-sensor fusion for real-time alerts.
- Supported fielding of 18,000+ body-worn and vehicle-mounted cameras under DHS Body-worn camera program — the largest law-enforcement camera programs in the world — in eight months, with expansion to tethered UAS and COP integration for situational awareness and evidence.

Enterprise AI / Data Strategy

- Developed mission-aligned scenarios and fielded anomaly-detection algorithms for object detection and classification of fentanyl and other contraband in privately owned vehicles at CBP ports of entry.
- Full AI lifecycle support: use-case design, model architecture, training strategy, performance benchmarks, scalable cloud infrastructure (AWS), and field-trial frameworks under certified Operational Test Director oversight.
- Delivered operational AI prototypes and an AI-readiness evaluation methodology for CBP detection programs — model evaluation against field conditions, methods to raise true-positive rates on.

Mission Data Enablement

- Data modeling, real-time analytics pipelines, geospatial intelligence (GIS), sensor fusion, and unified data environments spanning audio, video, incident, and multi-modal sensor data across CBP domains.
- Alert integration, asset management, and cross-sector exchange for UGS networks (seismic, acoustic, magnetic, PIR, EO/IR) to give operators a force-multiplying picture and a faster response.
- Unified data-sharing architecture for body-worn, vehicle-mounted, and tethered UAS platforms — CoT / TAK / ISA interoperability — plus ADA cloud architecture, high-volume training pipelines, and modeling & simulation for sensor/radar performance, human factors, and intelligence analysis.

Past Performance



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Representative Mission Use Cases



1 Systems Engineering & Lifecycle Support

What C2C did: Full SELC/ALF support: FRDs, SOWs, CDR/PDR/SRR/ORR/SIR, RTVMs, architectures, requirements traceability, and trade studies for programs with lifecycle value up to \$1B.

Use Case: C2C served as the systems engineering backbone for multi site CBP technology deployments, producing evaluator ready requirements packages, test artifacts, and lifecycle documentation that enabled rapid acquisition and fielding. Our team supported developmental and operational test events, interoperability assessments, and field trials under a certified DHS Operational Test Director.

Outcome: Programs moved from requirements to operational readiness with reduced rework, clear traceability, and accelerated approval timelines.



2 Logistics Sustainment & Technology Refresh

What C2C did: UGS support: 5,000+ sensors inventoried and sustained across 85 USBP stations in 13 sectors; 150+ agents trained; field engineering (mounts, solar, comms) and multi-sensor fusion for real-time alerts. Body-worn camera support: 8,000+ system technology refresh in three months.

Use Case: C2C executed a nationwide sustainment and refresh effort for CBP UGS and body-worn camera systems, coordinating inventory, field engineering, training, and multi sensor integration across sectors.

Outcome: Restored operational readiness across thousands of devices, improved alert fidelity, and delivered a unified operator picture across stations and sectors.



3 ADA/Fentanyl Detection Algorithms

What C2C did: Developed mission-aligned scenarios and fielded anomaly-detection algorithms for object detection and classification of fentanyl and other contraband in privately owned vehicles at CBP Ports of Entry.

Use Case: C2C designed and field-tested AI models for fentanyl detection in POE vehicle lanes, integrating sensor outputs, mission scenarios, and operator workflows.

Outcome: Raised true-positive rates on weak detectors, delivered operational prototypes, and established an AI-readiness evaluation methodology for future CBP detection programs.



4 Mission Data Enablement & Unified Operator Picture

What C2C did: Data modeling, real-time analytics pipelines, geospatial intelligence (GIS), sensor fusion, and unified data environments spanning audio, video, incident, and multi-modal sensor data across CBP domains.

Use Case: C2C built unified data environments that merged UGS, EO/IR, radar, body-worn, vehicle-mounted, and UAS feeds into TAK/CoT/ISA-compatible operator displays.

Outcome: Operators gained faster response times, cross-sector visibility, and a force-multiplying situational awareness picture.



5 Law Enforcement Body-Worn Camera Fielding

What C2C did: Supported fielding of 18,000+ body-worn and vehicle-mounted cameras for DHS Law Enforcement in eight months, with expansion to tethered UAS and COP integration.

Use Case: C2C executed one of the largest law-enforcement camera deployments in the country, integrating body-worn camera ecosystems, training officers, and ensuring evidence workflows aligned with CBP and DHS policy.

Outcome: Rapid fielding, improved evidentiary capture, and seamless integration with UAS and vehicle platforms.

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