



OAK DEFENSE — MISSION CONSOLE

Seven domains. One console.

UNCLASSIFIED · ITAR-FREE · REPRESENTATIONAL

OAK Mission Console puts the whole fight on one screen: seven operator views — **Common Operational Picture, Counter-UAS, Joint Fires, Space, Electronic Warfare, ISR** and **Logistics** — wired together with **cross-view tasking**, so a track becomes a fire mission, a cross-cue or a collection request without leaving the console. Underneath sits an **assured AI decision-support** layer running OAK's own first-principles models — with a calibrated confidence and an honest **abstain** when the model shouldn't guess.

THE SEVEN OPERATOR VIEWS

COP **Common Operational Picture.** Live tracks + trails, ship WEZ with ROE breach alerts, threat scoring.

FIRES **Joint Fires.** CARVER + the F2T2EA kill-chain, munition select, deconfliction, gun-target line, BDA.

EW **Electronic Warfare.** Live 30 MHz–18 GHz spectrum, emitter order of battle, electronic-attack tasking.

LOG **Logistics & readiness.** Unit-readiness cards, supply stockage, convoy tracking, resupply / J4 actions.

C-UAS **Counter-UAS planner.** Sensor laydown vs budget, terrain-masked LOS, coverage score, raid sim.

SPACE **Space domain awareness.** Ground tracks, conjunction screening, retrograde-burn manoeuvre planner.

ISR **Collection tasking.** NAIs, collection requests with a recommended asset, asset→NAI tasking, product hand-off.

C2 **Cross-view tasking.** Every nominate / hand-off / cross-cue badges the receiving view and carries the track.

WHY IT STANDS OUT

One system, not seven tools

Cross-view **C2 tasking** turns a COP track into a CARVER-scored fire mission, a hand-off, a cross-cue or a collection request — every action raises a notification on the receiving domain.

Assured AI, not a black box

Real OAK models with a **calibrated confidence** and an explicit **ABSTAIN** on out-of-distribution input — a noise jammer gets "I don't know", never a confident guess.

Offline & sovereign

A self-contained app — vendored libraries, a one-command launcher, **no Node, no cloud**. The AI models are the pure-numpy OAK core shared with the EW SUITE.

ASSURED AI DECISION-SUPPORT — REAL MODELS

AI is added only where it earns its place: **COP** ranks threats from real kinematics (*threat_assess*); **EW** classifies emitters with calibrated assurance and abstain (*intrapulse_recognition* + *ai_assurance*); **Joint Fires** solves weapon-target assignment to the exact optimum, minimising leakage (*tactical_wta*); and **ISR** computes the optimal collection plan under access geometry (*sensor_tasking*). Every number is auditable, and the console runs the same models a real service layer would call behind its documented cross-view seam.

Seven-domain console

Cross-view C2 tasking

F2T2EA + CARVER

Assured AI · calibrated + abstain

Real OAK pure-numpy models

Offline app · no Node · no cloud

Sovereign · ITAR-free

Representational · exercise-only

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Request a live demo

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