

OLYMPUS OS

Cognitive autonomy for air, surface, subsea, and orbital platforms.

[THE LOOP]

SENSE	Multi-sensor fusion at the edge. EO/IR, RF, acoustic, AIS, radar.
THINK (REACT)	Onboard inference and replanning. No cloud dependency.
ACT	Deterministic control and autonomous reroute in under two seconds.
SHARE	TAK-native Cursor on Target publishing to the operator picture.

[PERFORMANCE]

Alert to action	< 2.0 s (1.8 s measured average)
Autonomy mode	Fully disconnected / DDIL tolerant
Cloud requirement	None. All inference onboard.
Compute envelope	ARM64 / x86-64, 15 W to 120 W class
Determinism	Real-time scheduler, bounded loop latency

[INTEGRATIONS]

TAK / ATAK / WinTAK	Native CoT publish and subscribe, plugin SDK
ROS 2	Bridge nodes for perception and control graphs
MAVLink	Vehicle command, telemetry, and mission upload
Open API	REST and gRPC surfaces for C2 and mission systems

[SECURITY & COMPLIANCE]

Zero trust architecture. Signed builds, measured boot, encrypted at rest and in transit.
Aligned to NIST SP 800-171 controls. CMMC readiness program in progress.
ITAR and export control aware development and release process.

THE STACK

Olympus OS is the product. The platforms below prove it across domains.

OLYMPUS AZRAEL

ORBITAL

Space to surface cueing and orbital autonomy tasking.

GALLOWES

AIR

Persistent airborne sensing and autonomous reroute.

SIREN

SURFACE

Uncrewed surface vessel autonomy for port and littoral ops.

ABADDON

SUBSEA

Subsea autonomy for cable and landing site security.

BASTION / WRAITH

EDGE EFFECTS

Layered defense and terminal effects reference designs.

[DEPLOYMENT FOOTPRINT]

Tampa, FL · Arlington, VA · Houston, TX · Las Vegas, NV · Tokyo, JP

[CONTACT]

Programs and demonstrations: abresystems.com/contact

Live demo: Port Tampa Bay proving ground.