



MUDBUCKET® IS A GAME CHANGER. PLATFORM AGNOSTIC. ANY MISSION SYSTEM.



AI may be reshaping the battlefield, but most military platforms weren't designed to support autonomous systems. Rather than redesigning legacy aircraft, vehicles, and ships, Aether's proven Mudbucket system delivers a faster, more affordable path to autonomy without modifying host software or core architecture. It delivers:

- ▲ Faster R&D with reduced development time
- ▲ Lower integration & modernization costs
- ▲ Open architecture & systems ensures sustainability while reducing technical risk
- ▲ Incremental upgrade flexibility
- ▲ Capacity for fleetwide-deployment
- ▲ MOSA-compatible
- ▲ Used in Flight Automation and Control, Missions Systems, & Weapons Systems

Mudbucket, Aether's patented data bus and signal management system, enables rapid modernization of existing aircraft and platforms. By slipping a custom adapter that can be as small as a cell phone into existing wiring, Mudbucket edits interface data in real time, all without ever touching platform flight software. Because it preserves existing interfaces and leverages current hardware, Mudbucket dramatically reduces the cost of modernization.

Mudbucket's operationally validated technology allows the DOW to add a new capability to legacy craft for a fraction of the cost and timeline; what took years now takes months. It meets Congressionally mandated requirements and is easily available through a Sole Source SBIR Phase III.



Innovate. Develop. Deliver.

AetherAero.com | Hampton Roads, VA | Huntsville, AL | Pax River, MD | Nashua, NH | San Diego, CA

MUDBUCKET

All Mudbucket hardware, software, tools, and processes have been proven over thousands of operational hours.

For example, on Top Aces, Aether integrated 10 new systems onto legacy F-16s in just 10 months for \$10M. Our cost was a fraction of the estimated \$30-50M over 3-4 years for an OEM-led redesign. Mudbucket's navigation-system adapter alone reduced part of the job's cost from \$10M to \$700,000.

Mudbucket Autonomy Kit (MAK)

Aether's Mudbucket Autonomy Kit enables scalable deployment and rapid integration of autonomous capabilities across multiple aircraft types and fleet configurations without touching OFP software. The MAK enables:

- ▲ Rapid integration of autonomous capabilities
- ▲ Fleet-wide scalability across aircraft types
- ▲ Additive installation
- ▲ No OFP modifications

Recognized as a proven partner with DoW innovators and primes.

References available on request.

Established Integration Capabilities

Through Mudbucket's Integration Suite, customers can integrate emerging capabilities into both legacy and new aircraft. Proven uses include:

- ▲ Flight Automation & Control
- ▲ Mission Systems
- ▲ Radar & Sensors
- ▲ Datalinks
- ▲ Helmet-Mounted Cueing Systems
- ▲ Human-Machine Interfaces
- ▲ Data Recording
- ▲ IRST

Existing Mudbucket Apps

We offer a flight-proven, robust Mudbucket Application Library, used across aircraft, ground vehicles, maritime platforms, and other systems to enable cost-effective, repeatable modernization:

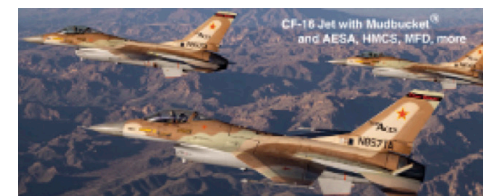
- ▲ Autonomy interfaces
- ▲ AI hosting as an add-in
- ▲ Live, Virtual, and Constructive (LVC) training
- ▲ Cyber data filtering
- ▲ Human-machine teaming

**Easy & rapid modernization:
Mudbucket is built to scale.**

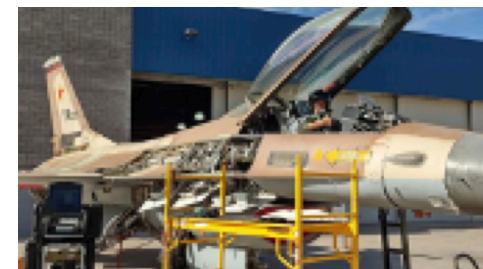
for example:

10 Systems in 10 Months

Validate:
4 flights,
4 weeks



Integrate:
12 weeks



**Design,
Procure,
Build:**
24 weeks



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