

MISSION ADVANTAGE ANYWHERE · PRODUCT OVERVIEW

THE GRAB & GO COMM KIT.

Stay connected anywhere with a lightweight and rugged mobile comm suite. Keep your team talking to each other and reporting for the first 72+ hours, until infrastructure catches up.

PRODUCT	BUILDER	CAGE	STATUS	TWO CONFIGURATIONS	ISSUED
Mission Advantage Anywhere	Merge Combinator, LLC	11TF7	Prototype, unclassified baseline	Mobile · Persist	October 2026

01 What it is

Mission Advantage Anywhere is a deployable communications and reporting kit for continuity of operations while the mission and the network adapt. Teams disperse to austere and contingency locations, relocate a command post, or operate outside the base network boundary, and for the first 24 to 72 hours they are limited to what one person can carry. **The kit is what that person carries.**

Two configurations. Buy as many as the mission needs. Mobile and Persist share one software layer and one data model. Mobile keeps an operator connected. Persist stays as the head-end for the local net. Add the Team option to Mobile for team mesh and satellite reach-back. Every mesh node routes for every other mesh node, so the net survives losing any one of them, including the one holding reach-back.

The kit is additive by design. Existing systems remain the authority. The kit carries traffic to them and reports the mission around itself while it does. No rip and replace, no new command and control authority. A single node is a real capability and a real test. Scaling from there is a quantity decision.

02 What it does

- 01 Two configurations, one software layer.**
Mobile and Persist scale from one operator to a standing site without changing how data reaches the command and control (C2) picture.
- 02 PACE (primary, alternate, contingency, emergency) is part of the design.**
Set the PACE order before the mission. The kit reports which path is carrying traffic and when that changed.
- 03 Peer-to-peer local net.**
Every mesh node routes for every other mesh node. No hub to lose.
- 04 It reports itself.**
System and mission telemetry through **Dead Reckon**; human observation through **Anymouse**. The kit is instrumented, so exercises produce data instead of anecdote.
- 05 Rides the systems already in place.**
Position and traffic land in TAK (Team Awareness Kit); telemetry and reporting feed Envision, C2IMERA, MSS and Advana.
- 06 Commercial and replaceable.**
Components are commercial off the shelf and individually substitutable. No single vendor is load-bearing.
- 07 Carried, not operated, in flight.**
Devices stay powered off in the cockpit and all use is off-aircraft. No cockpit-use approval is required and nothing in the design depends on one.

03 Two configurations. Buy as many as the mission needs.



Mobile

from \$2,500

Take it with you. Stay connected. More than a phone: iPhone 17 Pro, Garmin inReach Mini 3 Plus satellite messenger, integrated charge case, storage, backup power and cabling. Provisioned and under device management. Charges closed, issued ready to use. Cellular, satellite direct-to-cell and satellite messaging.



Team add-on, +\$3,500 per Mobile kit. Team mesh radio, Starlink Mini low Earth orbit (LEO) terminal, common-battery power and tactical pack. Still one person carries it.

PRODUCT RENDERERS

Renders show indicative configurations. Contents vary by mission and by the options selected at order. One Mobile kit fits on a government purchase card (GPC). Budgetary prices, October 2026.

04 Specifications

Kit figures are the sum of the components in the baseline configuration. Component figures are manufacturer published.

SPECIFICATION	MOBILE	MOBILE + TEAM ADD-ON	PERSIST
Form factor	Pelican 1120 Protector Case	Mobile case and LEO terminal in a tactical pack, single-person carry	Rugged carry-on case
Dimensions	21.4 × 17.2 × 9.8 cm exterior 8.41 × 6.76 × 3.87 in	Driven by the 29.9 × 25.9 × 3.9 cm LEO panel and the Mobile case. Fits a 25 to 35 L pack	56 × 36 × 23 cm 22 × 14 × 9 in, carry-on pack
Weight	0.98 kg (2.2 lb) case, device, messenger	2.1 kg (4.6 lb) excluding pack Mobile plus LEO terminal	11 to 25 kg (25 to 55 lb) by configuration
Power	Internal battery and power bank, USB-C. Charges with the case closed	Mobile power plus 25 to 40 W average for the LEO terminal, 12 to 48 V input	300 W bus. Power source configured for your mission
Endurance	Messenger runs multi-day at standard reporting intervals on 1800 mAh. The case charges both devices closed	A 99 Wh battery supports roughly 2.5 to 4 hours of terminal-on time. Sized per mission	Configured for your mission
Operating temp	Messenger -20 °C to 60 °C. End user device 0 °C to 35 °C per manufacturer	LEO terminal -30 °C to 50 °C. Mobile limits apply to the devices inside	-20 °C to 50 °C
Ingress rating	Case IP67. Messenger IP67	LEO terminal IP67 with power cable installed. Mobile case IP67	Watertight when closed, IP67 sealed case
Aircraft carriage	Carried, not operated. Devices powered off in flight; all use off-aircraft. F-22 stowage envelope is a dimensional and mass question only. No EMI or airworthiness qualification is in scope.		
Set-up time	Measured from case open to first report on the C2 picture, and published from the first rehearsal. This is one of the two numbers the program reports.		

Components and mass

COMPONENT	ROLE	DIMENSIONS	MASS	RATING
Pelican 1120	Charge case, Mobile node	21.4 × 17.2 × 9.8 cm	0.65 kg	IP67, crushproof, watertight
iPhone 17 Pro	End user device	15.0 × 7.19 × 0.88 cm	0.21 kg	IP68, 0 °C to 35 °C operating
Garmin inReach Mini 3 Plus	Satellite messenger	10.0 × 5.2 × 2.6 cm	0.12 kg	IP67, -20 °C to 60 °C, 1800 mAh
Starlink Mini	LEO broadband terminal	29.9 × 25.9 × 3.9 cm	1.10 kg	IP67, -30 °C to 50 °C, 25 to 40 W

Power bank, adapter, cabling and pack are selected per mission and are not included in the kit mass figures above. Each component is individually substitutable.

05 System view

Modularity is vertical and connectivity is horizontal. Either configuration reaches any bearer it carries, and any bearer reaches the same enterprise systems, so adding a node or a waveform changes one tier without touching the others. Roadmap bearers integrate at the node, and nothing above the node has to change to accept them.

EDGE NODES	BEARERS	COMMAND AND CONTROL (C2) AND ENTERPRISE · THE AUTHORITY
Mobile take it with you + Team add-on team net, reach-back Persist the node that stays EVERY NODE RUNS DEAD RECKON AND ANYMOUSE →	Mobile ad hoc network (MANET) mesh peer to peer, every node routes Low Earth orbit (LEO) broadband 100 GB / month Cellular LTE / 5G unlimited, hotspot Satellite direct-to-cell messaging class Satellite messenger position + text UHF / VHF / HF · SATURN · LoRa · Wi-Fi HaLow roadmap POSITION REPORTS, SYSTEM TELEMETRY, HUMAN OBSERVATIONS →	TAK (Team Awareness Kit) team traffic, position, chat, CoT Envision wing COP, status, field reporting C2IMERA installation C2 MSS mission support reporting Advana enterprise data and analysis EXISTING SYSTEMS STAY THE AUTHORITY.

06 Data and reporting

DR Dead Reckon System and mission telemetry into the C2 picture. Records path state, node health and system events, and fills the integration gaps where existing tablet plug-ins do not yet reach.	AM Anymouse Human context. Named after the anonymous aviation safety report box and built for the same reason: to capture the observation that would otherwise be lost.
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07 Applications

Command post continuity of operations A wing command post displaces to an alternate site. A Persist node establishes the local net and reach-back within the first hours; Mobile nodes keep dispersed staff on the picture while the primary path is rebuilt.	Dispersed beddown, first 72 hours A team beds down at an austere airfield outside the base network boundary. Mobile kits with the Team add-on carry team traffic locally and push status and position to the C2 picture until the site is connected properly.	Flight line coordination and notification An event on the flight line requires an immediate coordinated response across organizations that do not share a net. The kit puts the same picture in front of all of them instead of a chain of phone calls.
Personnel and asset accountability During a dispersal or a domestic response, tracking of aircraft, equipment and personnel is manual and degrades under stress. Nodes report continuously into the systems the command post already uses.	Exercise instrumentation During a major exercise, Dead Reckon records path state and system events while Anymouse captures what operators observed. The after-action product is a timeline, not a memory.	Defense support to civil authorities During a wildfire or storm response, guard teams operating with state and county partners share position and status on an unclassified picture that all participants can see.

08 Integration list

MANET: mobile ad hoc network. LEO: low Earth orbit. TAK: Team Awareness Kit.

Current and planned component integrations. Components are commercial off the shelf and individually substitutable; no single supplier is load-bearing.

COMPUTE AND END USER DEVICE

Provisioned mobile end user device	NOW
Tablet end user device, optional	NOW
Persist compute and gateway module	NEXT

SATELLITE AND CELLULAR

LEO broadband terminal	NOW
Commercial cellular, rotating SIM identifiers	NOW
Satellite direct-to-cell messaging	NOW
Satellite messenger, position and text	NOW

POWER

Integrated charge case, backup power	NOW
Common-battery mission power module	NEXT
Vehicle and AC input on Persist	NEXT

DATALINK AND RADIOS

Encrypted MANET mesh head-end	NOW
Baseline team datalink	NOW
LoRa, Wi-Fi HaLow	NEXT
UHF / VHF / HF, SATURN	NEXT

SOFTWARE

Dead Reckon telemetry and integration	NOW
Anymouse observation reporting	NOW
TAK client and server integration	NOW

POSITION, NAVIGATION AND TIMING

Alternate PNT node	NEXT
Low probability of intercept paging	NEXT
Asset tracking tags	NEXT

09 Security and accreditation posture

Path to accreditation in place. This combination has its own review; no authorization is inherited or claimed.

STATUS	Prototype. The baseline is unclassified. It runs over commercial paths and puts no device on the DoW network.
COMPONENTS	The kit adapts established IL4 components. Several are under active review by the USAF operational test community toward IL-6, and the managed service supports CUI today.
THE COMBINATION	This specific hardware and software combination, in this use case and configuration, has not been reviewed or approved before. No authorization is inherited and none is claimed.
DEVICE MANAGEMENT	Devices enroll under the existing Electronic Flight Bag mobile device management program rather than a new one. New configurations need network admin approval for connectivity.
SPECTRUM	Frequency authorization for the datalink is an open item and a named engineering task, not an assumption.
CLASSIFIED	SECRET operation is scoped and priced separately after discovery. Start unclassified, arrive classified.

10 Who builds it

MERGE COMBINATOR

Configured and delivered to your spec. Runs the program and writes the kit software. A service-disabled veteran-owned small business (SDVOSB) on Oahu, Commercial and Government Entity (CAGE) 11TF7. Ran the 2026 counter-drone site survey with a Pacific air wing that shaped this kit.

Mac Business Solutions: an Apple Premier Partner supporting government Apple deployments. **Apple Federal:** Apple's team for federal agencies. **Cloudflare:** Cloudflare for Government. Every kit comes with a hardware bill of materials.

KFORM

Designs and builds the Shield mesh radio behind the Anywhere Radio.

HADRON

Integrates the kit and primes Small Business Innovation Research (SBIR) Phase III awards.

Order a kit. Run a rehearsal. Buy as many as the mission needs.

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