



OPERATIONAL VIEW

Unmanned Systems and Solutions

Unclassified
Proprietary & Confidential Information.
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UNMANNED SYSTEMS AND SOLUTIONS

- Seven-year history of innovation and performance
- USA In-house development and manufacturing
- Partner of choice for mission specific payloads
- Unmatched training and support
- Company created by communications experts
- Veteran teammates understand DoD requirements
 - Combined 50+ years of military experience



LEAP IS THE INDUSTRY LEADING HEAVY LIFT TETHERED UAV:

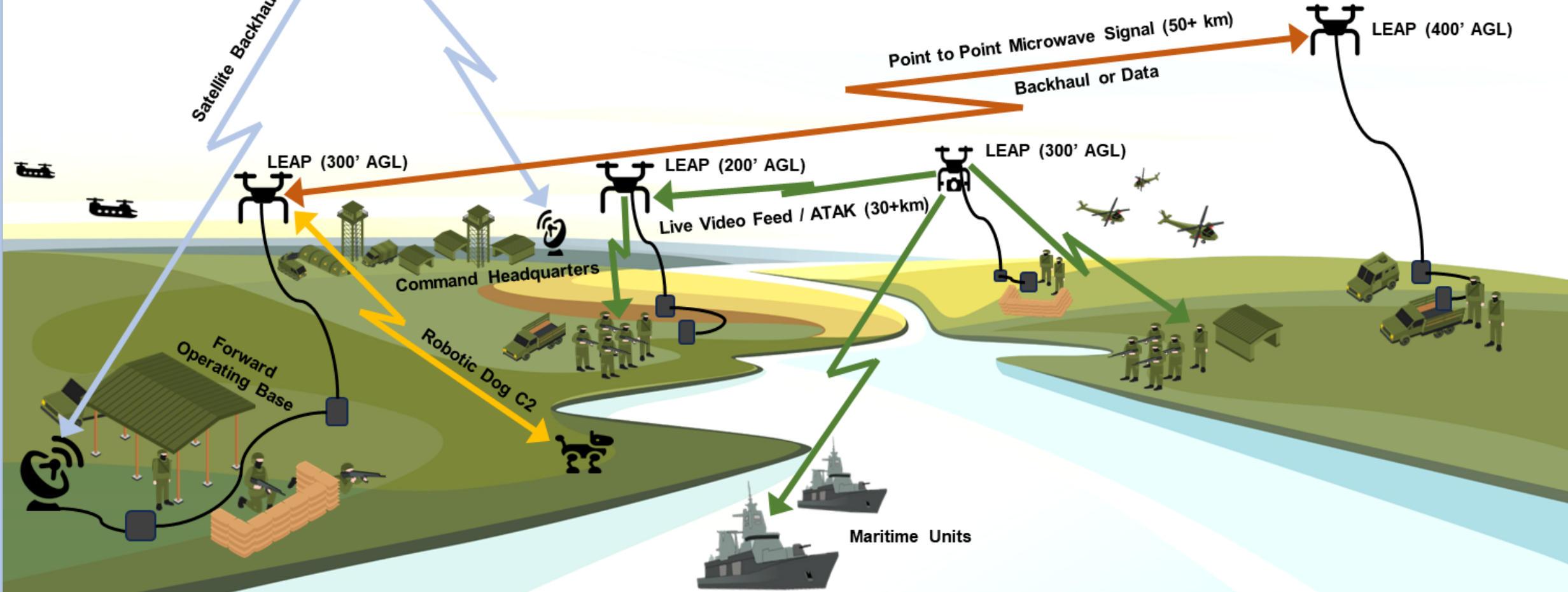
- 20+ Gbps air to ground data connection via secure tether
- 24-hour continuous on station air support
- Provides mobile overwatch protection up to 400' AGL
- 21lb. payload capacity for one or more ISR and/or comms payloads
- “Fly by Tether” capability in RF Denied Environments
- Proven operational success in harsh environments



RELIABLE, PERSISTENT, SCALABLE
THE CHOICE OF GOVERNMENT AND INDUSTRY PARTNERS



Unmanned Systems and Solutions Long Endurance Aerial Platform (LEAP) OV-1



CERTIFIED PAYLOADS

LEAP IS "PAYLOAD AGNOSTIC" – I.E., WE CAN CONNECT ONE OR MORE PAYLOADS PROVIDED BY THE CLIENT

COMMUNICATIONS

LTE AWS Radios (CommScope 2 Watts)
Land Mobile Radio Repeater (Zetron 7 Watts)
LTE Band 14 Radio Assembly (Ericsson 5 Watts)
LTE Band AWS/PCS Radios (Ericsson 20 Watts)
LTE 4G/5G Radio and Antenna (Nokia 20 Watts)
LTE 4G/5G Radio and Antenna (Nokia 80 Watts)
Tactical Radio MPU5 (Persistent Systems)
Tactical Radio 4402 & 4404 (Silvus)
DAS Band AWS/PCS (Solid 40 Watts)
Wi-Fi IBR600C/650C Router (CradlePoint)
LTE BVLOS Flight Computer (OnLogic)

ISR AND COUNTER DRONE

Trillium HD 45 Camera
Trillium HD 50 Camera
Trillium HD 55 Camera
Trillium HD 95 Camera
Spectran RF Spectrum Analyzer
Fortem TrueView R20 Radar
Aloft Sensing Synthetic Aperture Radar
ATAK/TAK

FRONTHAUL / BACKHAUL

Fiber Optic Point of Presence
Microwave Point to Point
GEO Satellite (Hughes)
LEO Satellite (Starlink, Kymeta)
Silvus 4402 & 4404 Tactical Radio
Persistent Systems MPU5 Tactical Radio
Syzygy Integration SNAP Kit



SERVICE AND SUPPORT

- Standard warranty for the LEAP tether system, UAV and GCS is one year.
 - Extended warranty can be purchased to extend past the one year for an additional year.
- Training is offered and required when purchasing the first system
 - Training can be provided at our facility in Tampa, FL or your location
 - Training includes how to operate and service the full system
 - USaS will provide phone support post training
- Spare parts are recommended at time of purchase and are also available for purchase throughout the life of the system
- Maintenance schedule:
 - UAV: between 400 Hrs to 1000 Hrs of flight operations, depending on component
 - Tether system: After 1000 Hrs of flight operations
 - Ground control station: After 1000 Hrs of flight operations



MISSIONS



HURRICANE MICHAEL

LTE 4G coverage 4,500 subscribers, Mexico Beach FL



ABMS

Advanced Battle Management System Operation OnRamp White Sands Missile Range



SUPERBOWL LVII

LTE 4G expanded capacity coverage up to 9,600, subscribers Glendale, AZ



MOBILE PRIVATE NETWORK

Nokia 5G Tactical Expeditionary Kit, 100,000 subscribers on private core, ETI, NC



CAPABILITY VIDEOS

Basic LEAP Overview

<https://www.youtube.com/watch?v=lsNjb4jGqYg&t=8s>

[USaS LEAP V2 \(Aug 2022\) – YouTube](#) (LEAP v2 features and functionality)

[AT&T Flying COW Link \(youtube.com\)](#) (LEAP/Flying CoW for integrated ISR and premises security)

<https://www.youtube.com/watch?v=GcSN-NW46m0> (integration of tactical radio, camera and ATAK)

[LEAP Certified for More Missions \(youtube.com\)](#) (LEAP's lateral movement capabilities)

AT&T Flying CoW

<https://www.wired.com/video/watch/how-drones-have-transformed-disaster-relief>

<https://www.youtube.com/watch?v=VI5cbhtHsdk>

https://www.linkedin.com/posts/artpregler_att-is-taking-5g-to-new-heights-activity-6938291610786947072-lha3?utm_source=linkedin_share&utm_medium=member_desktop_web

Military (White Sands, NM)

https://www.youtube.com/watch?time_continue=2&v=g3B0H7YVPjs&feature=emb_logo (see the Flying CoW at the :44 mark)

<https://www.linkedin.com/feed/update/urn:li:activity:6734928106273939456/> (see the Flying CoW at :37 and 1:15)





THANK YOU

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