SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS

EXPANDING THE COMPETITIVE SPACE

PM - REMOTE CAPABILITIES (RC)

SOF AT&L

PEO-SPECIAL RECONNAISSANCE MISSION

Lead the rapid and focused acquisition of state-of-the-art sensors and associated C2, emplacement, recovery, and specialized communication systems across all domains to enable total situational awareness for the SOF Warfighter

Pillars of Special Reconnaissance*

- Complements national & theater intel collection
- Supported by SIGINT, HUMINT, TTL
- Used for target ID, acquisition, tracking & post-strike reconnaissance
- Uses unmanned collection capabilities to provide persistent, high-fidelity intelligence

** Per Joint Pub 3-05*

Capability Development Areas

- Next-Gen Unattended Sensors
- Flexible, Tactical SIGINT
- Small Tactical Unmanned Systems
- Space-Based Collection, C2, Data Exfiltration
- Standoff Biometrics & Forensics
- Collaborative Special Reconnaissance

SOCEUR · SOCPAC · SOCSOUTH · SOCNORTH · SOCCENT · SOCKOR · SOCAFRICA

PM REMOTE CAPABILITIES (RC)

Develop, field, and sustain unmanned systems across space, air, ground and maritime domains. Enable autonomous collection and exploitation of ISR sensor capabilities providing total situational awareness in support of SOF operations in permissive and contested environments.

Remote Capabilities Enabling SR Portfolio

- Sensor C2 and Data Exfiltration
- Integration with Service Partners
- Unmanned SSE Chemical Detection (future)
- Remote Emplacement of Unattended Sensors
- EO/IR Tipping & Cueing

Capability Development Areas

- Collaborative Autonomy
- Alternative and Assured PNT
- Space-Based Collection, C2, Data Exfiltration
- Remote Sensor Emplacement
- Tactical Exploitation of National Capabilities

SOCEUR SOCPAC SOCSOUTH SOCNORTH SOCCENT SOCKOR SOCAFRICA

National Systems Support to SOF

The NSSS RDT&E efforts explore the operational utility of bringing National Systems capabilities to the deployed tactical user

Capability Description

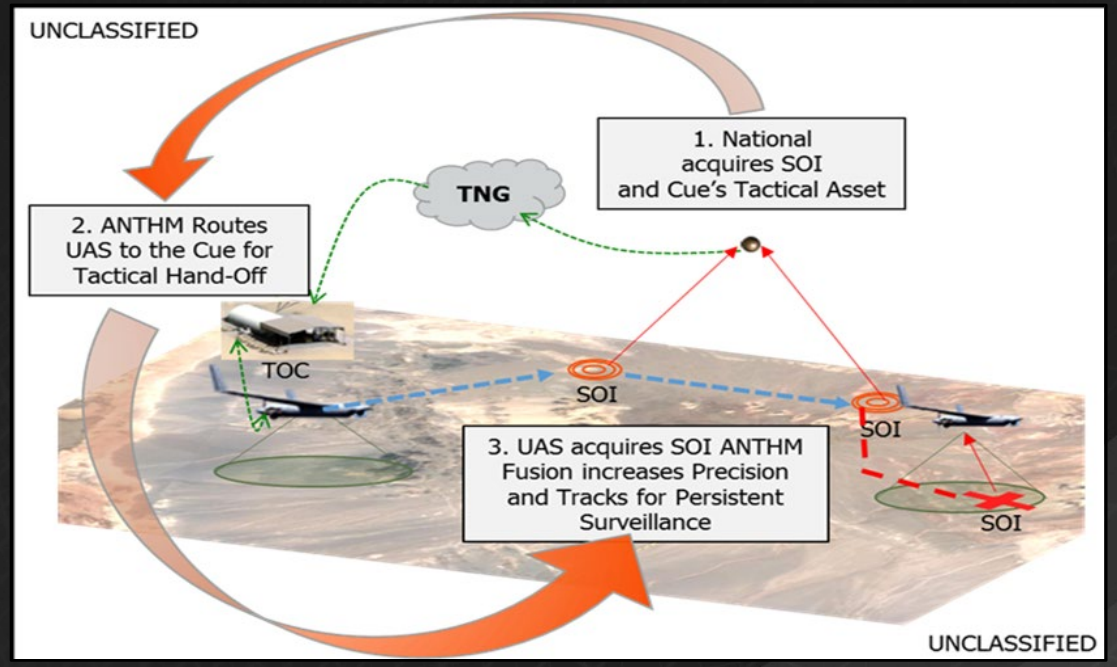
Rapidly prototypes technology from laboratory to acquisition programs of record/operations use

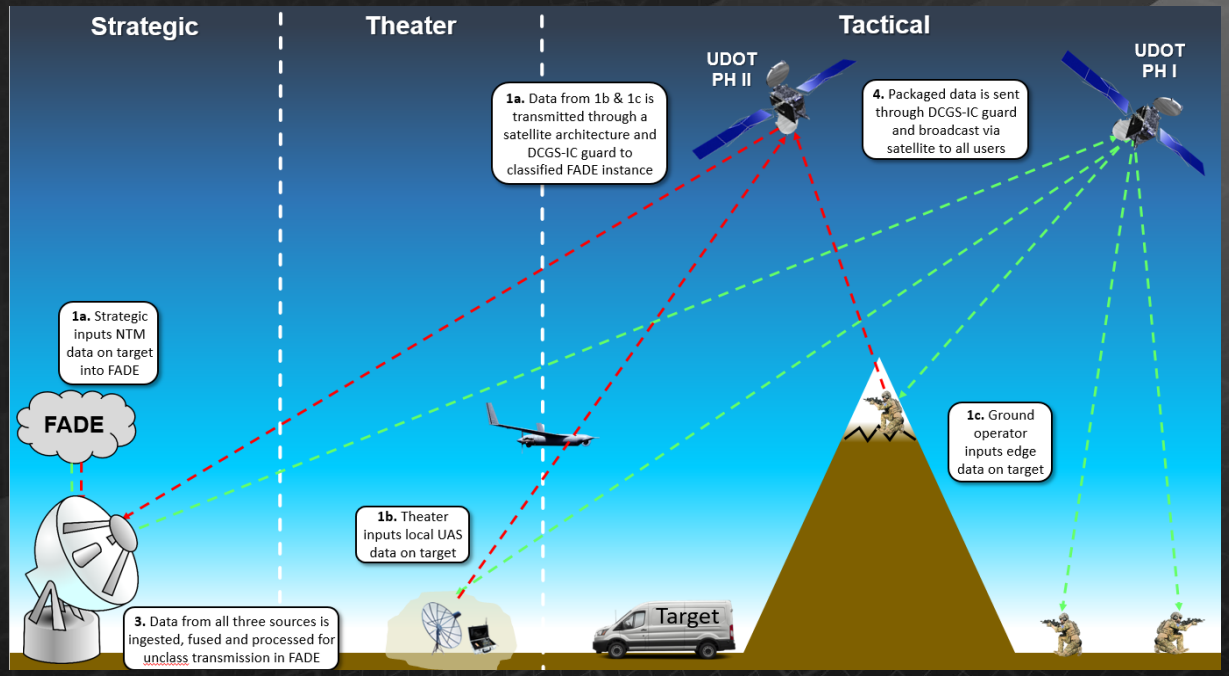
Operational Relevance

- Improve warfighter's ability to leverage the National Systems Data at the tactical level
- Quickly communicate vital intelligence data directly to and from the tactical edge

Industry Engagement Opportunities

BAAs, White Papers, etc.





Space Based Capabilities

Space Based Capabilities

Tactically responsive and tailorable space-based capabilities to support SOF missions in semi and non-permissive environments of strategic competition

Capability Description

Space-based ISR technologies supporting acquisition Program of Record requirements

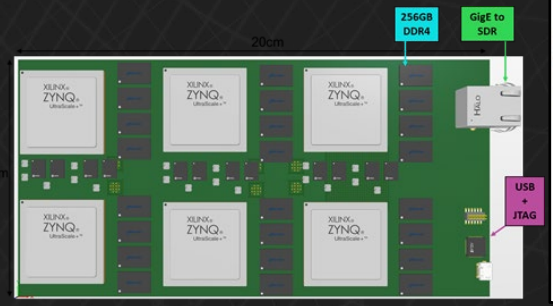
- Rapidly prototype and demonstrate SOF relevant capabilities
- Develop and integrate ISR and enabling technology payloads onto commercial and USG satellites

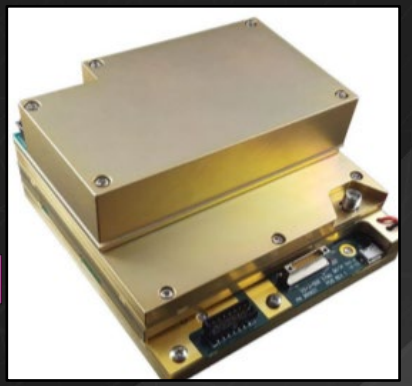
Operational Relevance

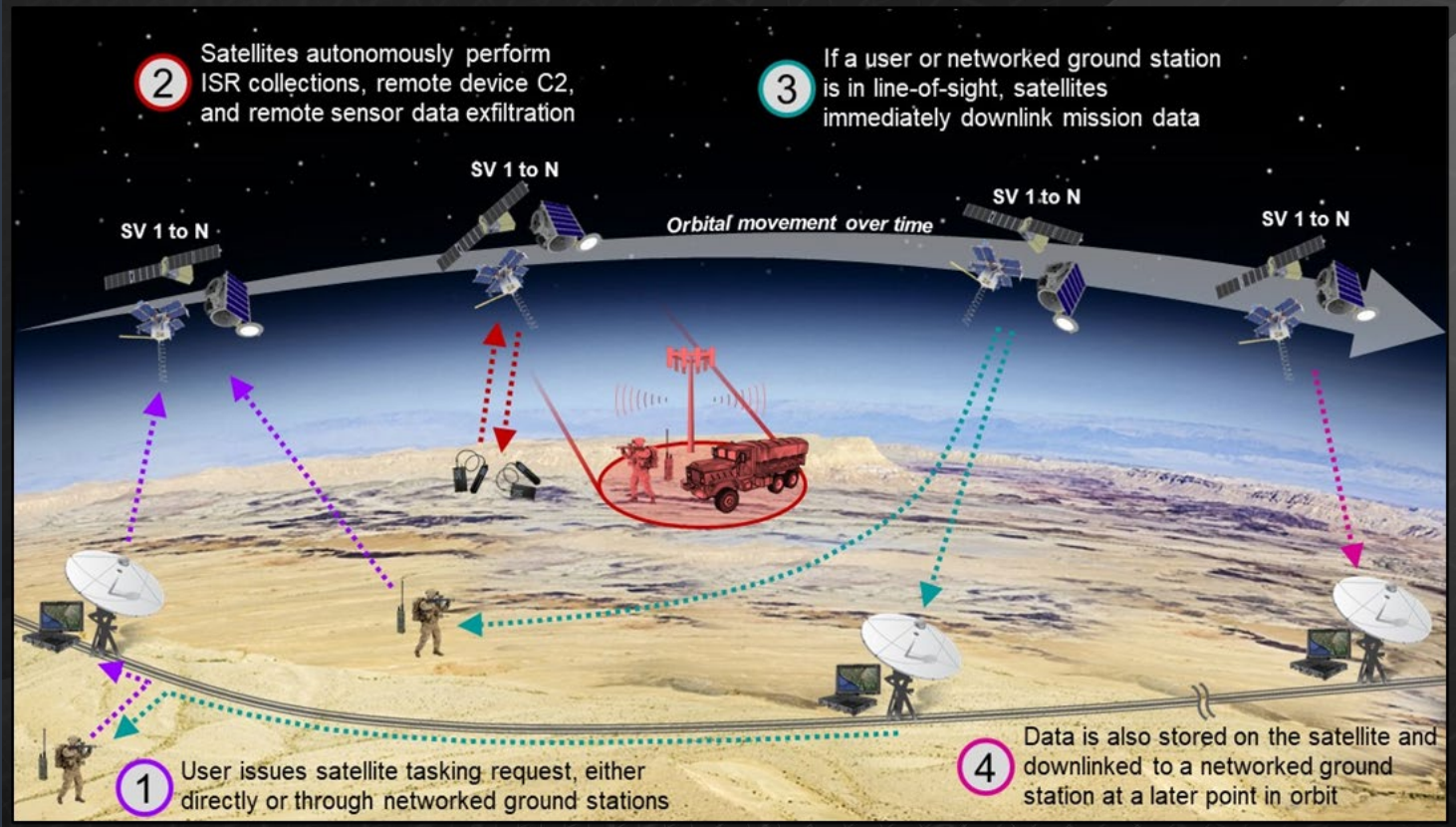
- Provide SOF operators direct tasking authority
- Operational data on tactically relevant timelines

Enabling Capabilities

Autonomous operations, antenna solutions, on-board processing, host satellites







Mid-Endurance UAS (MEUAS)

MEUAS

Capability Description

- Contractor-owned, contractor operated ISR services capability
- Signal Intelligence & Full Motion Video from a Tactical Unmanned Aerial System (TUAS)
- Small/Medium payload
- On-demand, vertical take-off & landing provided with runway independence
- Long loiter/on-target time
- Easily transportable

Operational Relevance

- Supports the Find, Fix, and Finish mission
- Deployable to remote operations for locally supported ISR with runway independence
- Provide real-time situational awareness

On-Going Efforts

- Sensor upgrades for daytime imagery
- Improvements to nighttime and IR FMV capability
- Improved anti-jam
- Beyond Line of Sight (BLOS) SATCOM

Future

- Increased payload capabilities
- Sensor integration to support new Signals of Interest
- Alternate Precision Navigation & Timing

Arcturus T-20 Jump

L3 Harris FVR-90

Aerovel Flexrotor

Insitu ScanEagle Block E

Textron Aerosonde Mk 4.7G

Wildflower SpektreWorks Cobalt 110

Group 3 Unmanned Aircraft System (G3UAS)

G3UAS previously known within Special Operations Forces Acquisition, Technology and Logistics (SOF -AT&L) as Small Tactical Unmanned Aircraft System (STUAS), provides Special Operations Forces-peculiar (SOF-p) payloads and modifications to the Service-provided RQ-21A Blackjack UAS

Capability Description

Full motion video, signal intelligence (SIGINT), special payloads, and mission kits for use on the Service provided RQ-21A Blackjack UAS to meet Naval Special Warfare (NSW) mission requirements

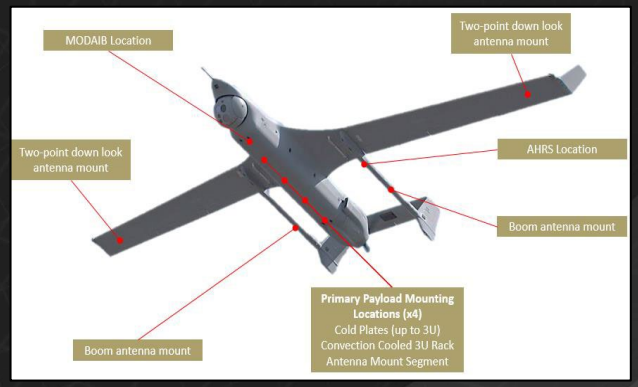
Operational Relevance

NSW utilizes the RQ-21A with SOF-p payloads and mission kits for organic, tactical, long-range, expeditionary, Intelligence, Surveillance and Reconnaissance (ISR) in support of Multi-Intelligence (INT) collection in austere locations

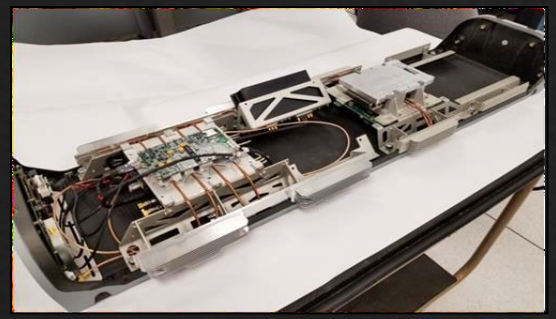
G3UAS ONGOING PROJECTS

Extended Range "SOREL"

Alticam 14



SAFC Modular Payload

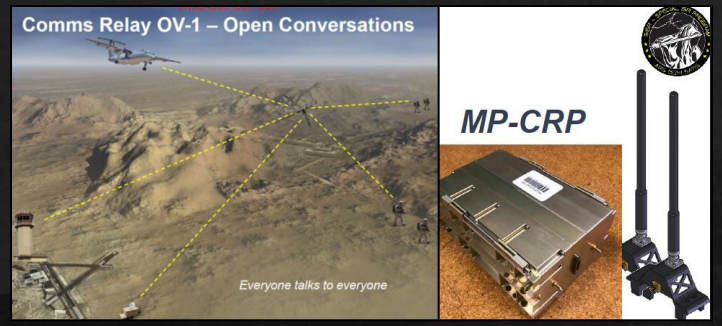


SURFR

G3UAS has seven ongoing projects. We are currently working with our industry partners to develop additional Special Operations Forces-Peculiar (SOF-p) payloads and mission-kits

G3UAS will transition all projects to the RQ-21A Service-Common Program of Record (PoR), PMA-263, or the Multi Mission Tactical Unmanned Aircraft System (MTUAS) PoR in FY23

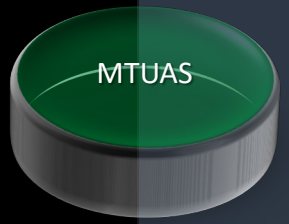
Category 1 Targeting



Communications Relay Package

Alternate Navigation

Multi-mission Tactical Unmanned Aerial System Program (MTUAS)



"Smallest, most capable, combination of modular equipment to achieve the mission"

Capability Description

Modular, mission configurable, unmanned aircraft system (UAS)

- Near real-time, high resolution full motion day and low-light full motion video
- Small Unmanned Radio Frequency Receiver (SURFR) for Multi-Intelligence (INT) collection and electronic warfare in austere environments
- Emerging launch and recovery equipment independence and modular payload compliance
- Scalable maritime and mobile employment

Operational Relevance

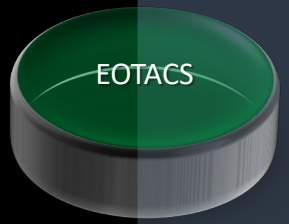
NSW utilizes the MQ-27B ScanEagle-based UAS and the V-BAT 128 with various modular payloads and mission kits to find, fix, and finish enemy combatants

NOMAD EAGLE

- Tactical Mobility Combat Eval
- MQ-27B ScanEagle-based UAS
- Hood Tech, FLARES 2.0
- Foxtrot, SEROL Mobile Antenna
- Insitu, Tactical Mobility Common GCS

Martin UAV (a Shield AI Company) V-BAT-128 beginning June 2023

Expeditionary Organic Tactical AISR Capability Sets (EOTACS)



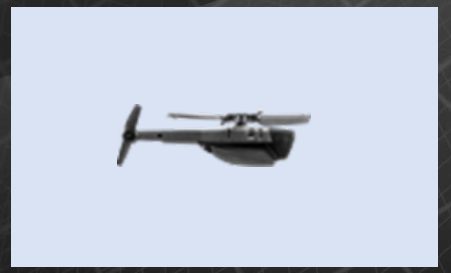
EOTACS procures commercial and government off-the-shelf Small Unmanned Aerial Systems (SUAS) to rapidly field organic ISR to Special Operations individuals, teams, and units

Capability Description

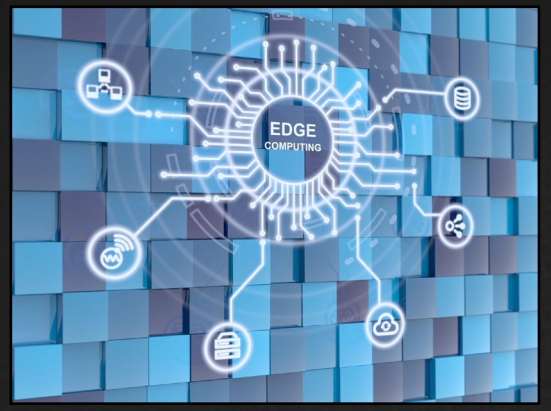
EOTACS provides the SOF warfighter with day and night full motion video (FMV) capability and/or specialized payload operations in an expeditionary environment

Operational Relevance

EOTACS provides airborne ISR and sensor emplacement capabilities integrated into small unit/team maneuvers for timely support of Special Recon, Direct Action, Unconventional Warfare, and other core SOF activities



EXPEDITIONARY ORGANIC TACTICAL AISR CAPABILITY SETS (EOTACS) LINES OF EFFORT



Edge Computing

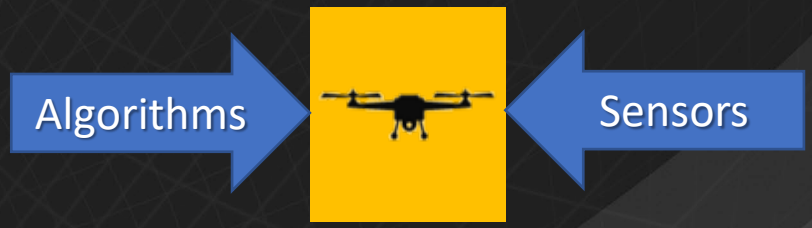
Secure Multi-Domain Communications

Increasing Autonomous Capabilities to hyper-enable SOF

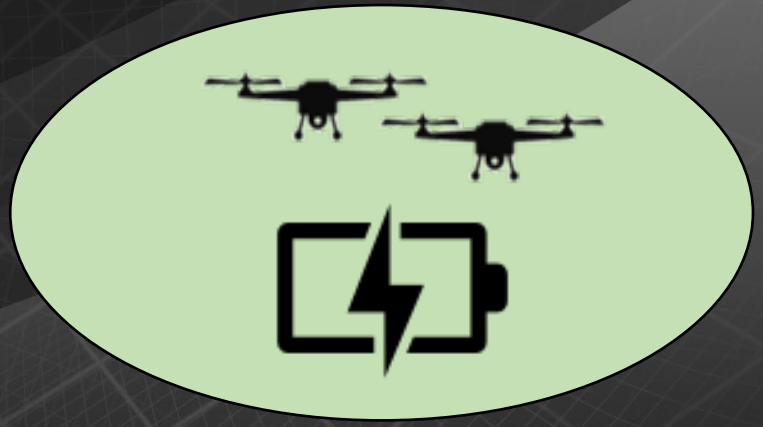
Edge Computing with third-party Algorithms

Secure Communications

Improvements in SUAS Endurance



Third-Party Integrations



Endurance Improvements