GLOBAL SOF:

THE ASYMMETRIC STRATEGIC OPTION FOR A VOLATILE WORLD

David Breede

PROGRAM EXECUTIVE OFFICER, TACTICAL INFORMATION SYSTEMS

DEEP DIVE

SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS

TACTICAL INFORMATION SYSTEMS MISSION STATEMENT

Field Fast

Learn Fast

"Lead the rapid and tailored acquisition of C5ISR technology to enable overmatch, situational awareness, and resilient communications in contested environments for the SOF Warfighter"

SPECIAL RECONNAISSANCE (SR)

"SR entails reconnaissance and surveillance actions conducted to collect or verify information of strategic or operational significance, employing military capabilities not normally found in CF"

Technical collection and communications through remote, unattended, or clandestine capabilities

Threat warning, signals intelligence (SIGINT), and precision geo-location capabilities across the SOF inventory and all domains

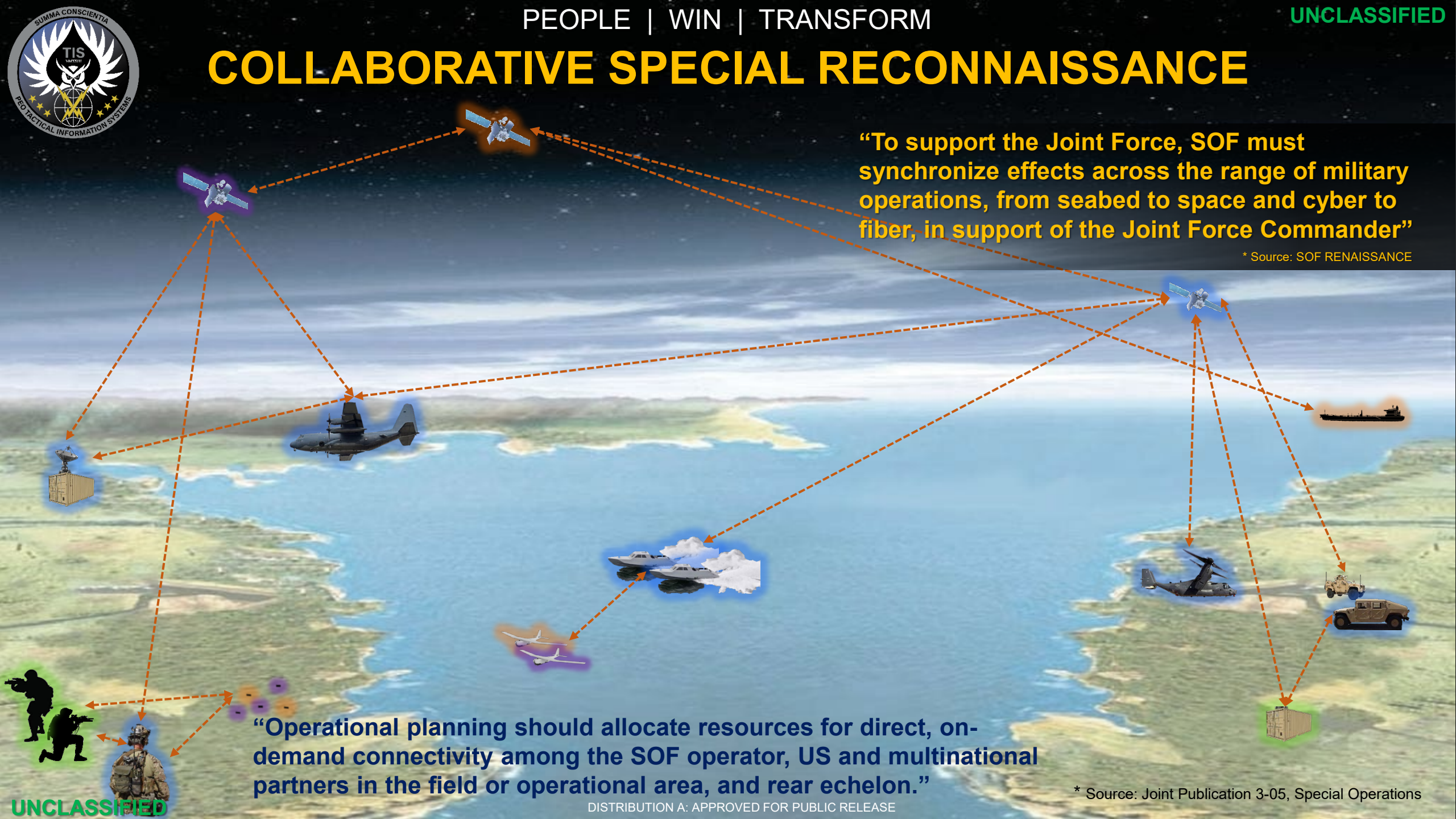
Remote capabilities to emplace, C2, and collect data from unattended sensors and integrate national asset intelligence

Sensitive site exploitation to rapidly assess threats, exploit collected material, and support follow-on operations

"SR includes target acquisition, area assessment, and post-strike reconnaissance, and may be accomplished by air, land, or maritime assets."

* Source: Joint Publication 3-05, Special Operations

COLLABORATIVE SPECIAL RECONNAISSANCE



"To support the Joint Force, SOF must synchronize effects across the range of military operations, from seabed to space and cyber to fiber, in support of the Joint Force Commander"

* Source: SOF RENAISSANCE

"Operational planning should allocate resources for direct, on-demand connectivity among the SOF operator, US and multinational partners in the field or operational area, and rear echelon."

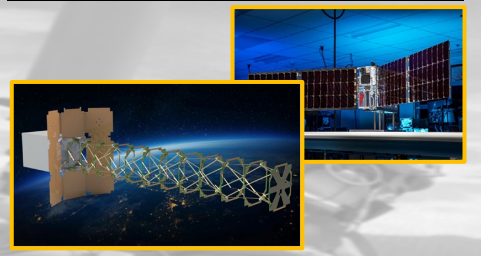
* Source: Joint Publication 3-05, Special Operations

PEO TACTICAL INFORMATION SYSTEMS (TIS)

Lead the rapid and tailored acquisition of C5ISR technology to enable overmatch, situational awareness, and resilient communications in contested environments for the SOF Warfighter

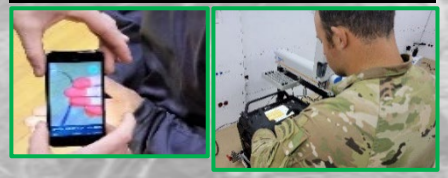
Modernization
Operationally Fielded

TENCAP/SBC



FABS, BDP/ FOL, NGLS

Biometrics & Forensics



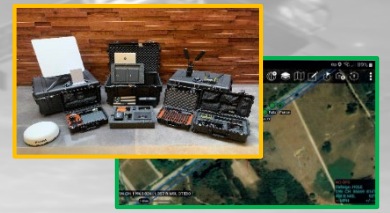
MTUAS

Small Unmanned Systems

TACLAN & Satellite Deployable Node

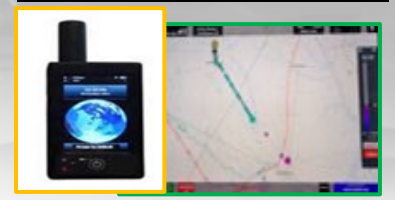
SOF Tactical Comms

RAA-VAK



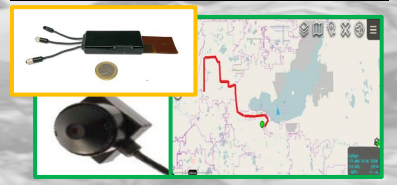
Special Communications

Blue Force Tracking



TVS/RSTA

Hostile Forces-TTL



SILENT DAGGER – SIGINT PED

JOINT THREAT WARNING SYSTEM

Tactical Communications

- Remote Capabilities
- Technical Collection & Communication
- Identity Intelligence & Exploitation
- Transport Systems
- Integrated Sensor Systems

NEXT-GENERATION C5ISR

"SOF's ability to adapt and innovate remains its greatest strength. This SOF Renaissance demands that we continue to lead, innovate, and excel as a bridge for strengthening and defending our nation." **SOF Renaissance*

Current and future contested operating environments require processes and capabilities that are:

- **RESILIENT: Low-signature, anti-jam, multiple options**
- **INTEROPERABLE: With partner forces; Across the portfolio; Across the Department**
- **SECURE: Cyber-security (infrastructure and kit); Supply chain**
- **AGILE: We will change our priorities – Stay with us!**

GLOBAL SOF:

THE ASYMMETRIC STRATEGIC OPTION FOR A VOLATILE WORLD

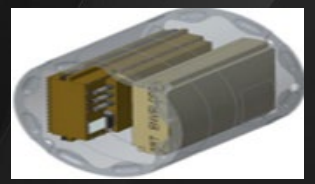
Charles C. Wilson
PROGRAM MANAGER – INTEGRATED SENSOR SYSTEMS

PROGRAM EXECUTIVE OFFICER, TACTICAL INFORMATION SYSTEMS

INTEGRATED SENSOR SYSTEMS (ISS)

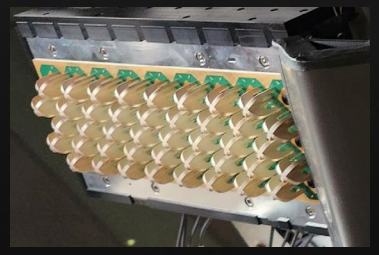
MISSION STATEMENT: Develop, field, and sustain sophisticated signals intelligence capabilities operating in the Air, Ground, Maritime, and Space domains in support of worldwide Special Operations missions to include Collection, Geolocation, Processing, Exploitation, and Dissemination.

JOINT THREAT WARNING SYSTEM: The Joint Threat Warning System (JTWS) enables SOF to collect, process, locate, and exploit radio frequency signals to provide threat warning, force protection, and enhanced situational awareness information in Ground, Air, Maritime, and Space domains.







SOF SIGINT PROCESSING, EXPLOITATION, AND DISSEMINATION (SILENTDAGGER): SILENTDAGGER is a family of products and services providing Intelligence, Surveillance, and Reconnaissance (ISR), and analytical capabilities at the Joint Task Force level and below through a combination of reach-back, forward support, and collaboration. SILENTDAGGER Garrison and Deployable Nodes provide critical SIGINT support and decision-making information to globally deployed Special Operations Forces.

INTEGRATED SENSOR SYSTEMS (ISS)

CAPABILITY DEVELOPMENT AREAS

- Advanced Digital Signal Processing
- Advanced Processing at the Edge
- Higher Data Throughput/Lower SWaP
- Signal ID, Classification, and Geolocation of Complex SOIs
- Modularity (Modular Payload Compliance, VPX)
- Incorporation of AI/ML specific to RF technologies
- Antennas (DF, Electronically Steerable, Wideband)

UPCOMING OPPORTUNITIES

- PM-ISS Industry Week
  - Next Industry Week: October 2025
  - RFI released on SAM.gov in June 2025
- SOF AT&L Homepage (https://www.socom.mil/SOF-ATL)
- ENGAGE SOF (eSOF) - USSOCOM FRONT DOOR
- Technical Experimentation (TE) Events
  - Next one TE 25-3, 8-12 Sep 2025
- Submit to the BAA for Advancement of Technologies for Use by SOF (https://www.socom.mil/sof-atl/pages/baa.aspx)

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Christopher Outlaw
PROGRAM MANAGER – IDENTITY INTELLIGENCE AND EXPLOITATION

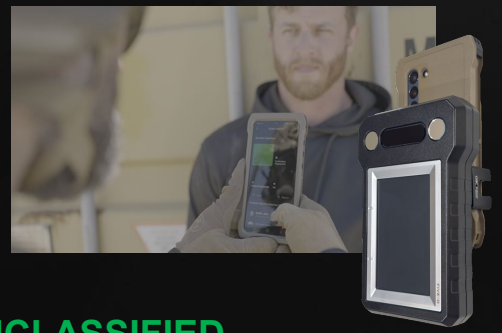
PROGRAM EXECUTIVE OFFICER, TACTICAL INFORMATION SYSTEMS

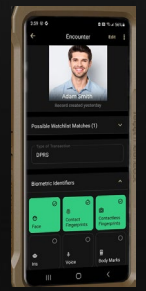
IDENTITY INTELLIGENCE AND EXPLOITATION (I2E)

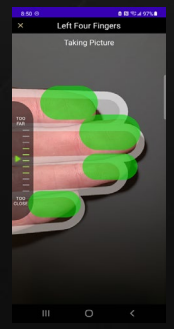
MISSION STATEMENT: Develop, field, and sustain forensic, document & media, and biometric exploitation capabilities in support of the SOF Operator Identity Intelligence (I2) mission. The I2 mission includes exploitation of trace materials, chemicals, and biologicals; positive identification of individuals and persons of interest via biometrics; and collection of valuable information from physical and digital media. These capabilities allow SOF Operators and the I2 enterprise to make informed decisions on actors' activities and intent, driving SOF Operators, Joint Assets, or Partner Forces to take appropriate and timely actions.

EXPLOITATION ANALYSIS CAPABILITIES: Provides SOF theater-level forensic laboratory capabilities for more robust, rapid exploitation of Captured Enemy Material (CEM)

BIOMETRICS: Provides SOF the ability to collect and transmit measurable biometric signatures including Live/Latent fingerprints, Iris Patterns, DNA, and Facial Features. Verify all collected modalities and enroll subjects into an Authoritative Biometric database

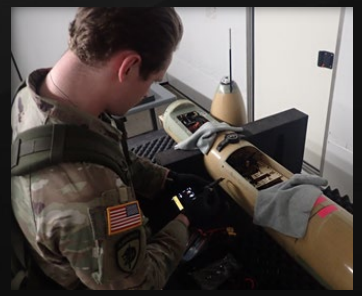






FORENSICS: Provides SOF capability to conduct trace/bulk chemical detection, as well as collection and identification of latent biometrics to include prints, bodily fluids, and DNA

DOCUMENT AND MEDIA EXPLOITATION (DOMEX): Provides SOF the ability to collect and exploit CEM document, media, and cell phone to generate actionable intelligence



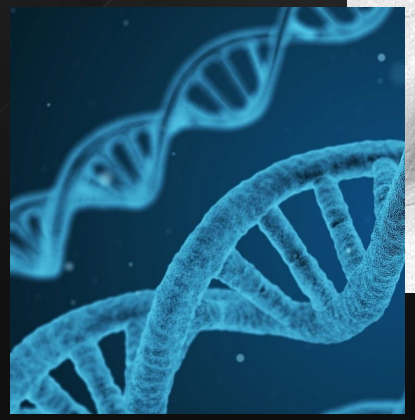
IDENTITY INTELLIGENCE AND EXPLOITATION (I2E)

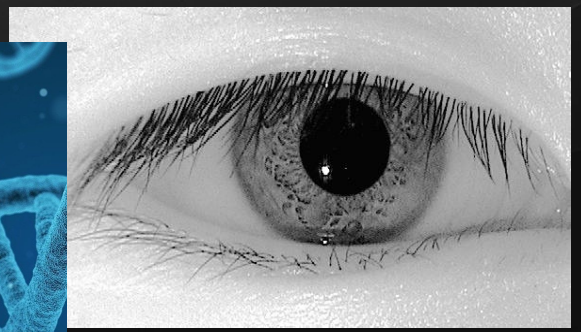
CAPABILITY DEVELOPMENT AREAS

- Man-portable Rapid DNA Solution
- Leveraging native phone IR for Iris Capture
- TAK and Partner Forces compatible application that captures Face, Contactless Fingerprints, and Biographical information
- Continued innovative exploitation of Internet of Things (IoT)
- Portable dustless fingerprint capture
- Solutions for lightweight, portable, chemical identification device
- Collected Enemy Material Analytic/Correlation Capability

UPCOMING OPPORTUNITIES

- Ongoing
  - Tactical Forensic Event 25.1
    - CELLEX
    - DRONEX
    - Vehicle Forensics
- Phone Native IR Study (SOFWERX) - 4Q FY25
- Full Motion Video Facial Collection/Recognition (SOFWERX) - 1Q FY26





GLOBAL SOF:

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Chad Skiendziel
PROGRAM MANAGER – TRANSPORT SYSTEMS

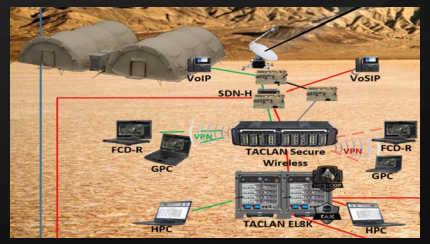
PROGRAM EXECUTIVE OFFICER, TACTICAL INFORMATION SYSTEMS

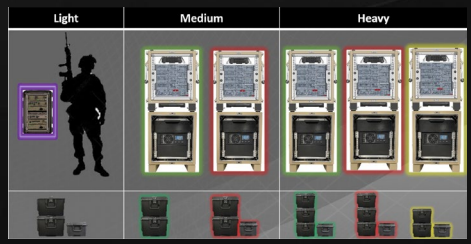
TRANSPORT SYSTEMS (TS)

MISSION STATEMENT: Designs, develops, procures, and sustains deployable communication infrastructure to expand the reach of the Special Operations Forces Information Environment, delivering enterprise-grade services wherever global missions demand. The PMO seamlessly integrates systems that facilitate the exchange of knowledge among commanders, operators, and support personnel during Special Operations Forces' core activities and mission assignments. Each system provided offers tactical support to Special Operations Forces at all classification levels, enabling a broad spectrum of functions, including Command and Control (C2), Situational Awareness (SA), intelligence analysis and reporting, office automation, decision-making, mission analysis, planning, rehearsal, and execution support.

SATELLITE DEPLOYABLE NODE: SDN is a family of deployable, super high frequency, multi-band, satellite communications (SATCOM) systems providing deployed SOF users with the transport path for access to the SOF Information Environment (SIE) for high-capacity, voice, data, VTC, and video at all levels of classification.

TACTICAL LOCAL AREA NETWORK: TACLAN provides SOF elements – from small team level contingent to a larger headquarters – with seamless connectivity to multi-level secure networks to facilitate information sharing, enable timely knowledge- based decisions, and provide an interface between the SOF Warfighter, the SOCOM Information Enterprise (SIE), and DoD information networks.





TRANSPORT SYSTEMS (TS)

CAPABILITY DEVELOPMENT AREAS

- Size, weight, power
- Flexible Service Plans Supporting Multi Orbit
- High Throughput Satellite
- Protected, Contested, Congested, Anti-Jam SATCOM
- Software Infrastructure to enable containerization
- Automation to enable rapid deployment
- Commercial Solutions for Classified enabling Tactical Mission Network
- Embedded Computing

UPCOMING OPPORTUNITIES

- SDN Family of Terminals RFI (Q3 2025)
- SOF AT&L Homepage (https://www.socom.mil/SOF-ATL)
- ENGAGE SOF (eSOF) - USSOCOM FRONT DOOR
- Technical Experimentation (TE) Events
- Submit to the BAA for Advancement of Technologies for Use by SOF (https://www.socom.mil/sof-atl/pages/baa.aspx)

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Ms. Heather Anderson

PROGRAM MANAGER – TECHNICAL COLLECTION AND COMMUNICATIONS

PROGRAM EXECUTIVE OFFICER, TACTICAL INFORMATION SYSTEMS

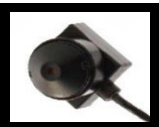
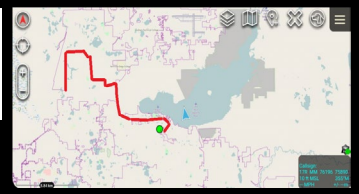
TECHNICAL COLLECTION AND COMMUNICATIONS (TCC)

MISSION STATEMENT: Develop, field and sustain credible special reconnaissance, surveillance, and communication capabilities that support the SOF Operator missions to include Tagging, Tracking, and Locating of enemy assets; capturing and transferring of near-real time ground based tactical imagery and video providing battlefield visualization and situational awareness through remotely tracking and monitoring SOF Operators and Partnered Forces.

HOSTILE FORCES – TAGGING, TRACKING, AND LOCATING (HF-TTL):

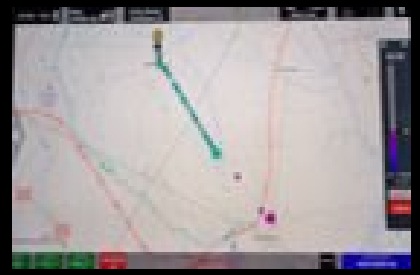
Provides SOF with the capability to conduct surveillance operations to collect or verify information of strategic/operational significances via low observable sensors.



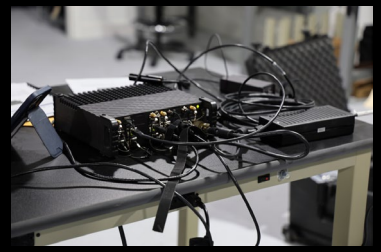
BLUE FORCE TRACKING (BFT):

Family of devices used to remotely track and monitor Blue Forces and enhance battlefield situational awareness.

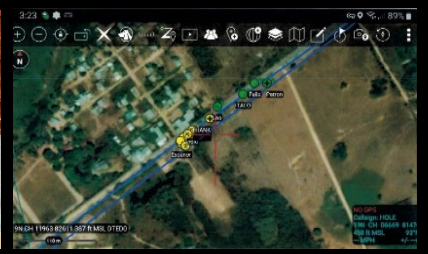
TACTICAL VIDEO SYSTEM/RECONNAISSANCE, SURVEILLANCE, AND TARGET ACQUISITION (TVS/RSTA):

Provides SOF with ground and maritime capabilities that capture and transfer images and electronic signatures to support mission planning and execution.

REMOTE ADVISE AND ASSIST VIRTUAL ACCOMPANY KIT (RAA VAK):

Provides a suite of tools for mission planning and execution, command and control of partner forces, and access to real-time information for situational awareness and de-confliction.

TECHNICAL COLLECTION AND COMMUNICATIONS (TCC)

MISSION STATEMENT: Develop, field and sustain credible special reconnaissance, surveillance, and communication capabilities that support the SOF Operator missions to include Tagging, Tracking, and Locating of enemy assets; capturing and transferring of near-real time ground based tactical imagery and video providing battlefield visualization and situational awareness through remotely tracking and monitoring SOF Operators and Partnered Forces.

CAPABILITY DEVELOPMENT AREAS

- Next-Gen Sensors (Maritime Sensors, Remote Triggering Sensors, Semi Attended Remote Cameras, Multi-Modal Unattended Sensors
- Wide Area Surveillance Package
- Maritime, Aircraft, and Ground Based BFT/PR Variants
- MANET Capability
- ATAK Tracking over HF
- High Bandwidth Global SATCOM options (Handheld)
- Denied Environment Operations
- Non-RF Alt PNT Solutions

UPCOMING OPPORTUNITIES

- Wide Area Surveillance Platform – RFP via SOFWERX anticipated late May 2025
- SOF AT&L Homepage (https://www.socom.mil/SOF-ATL)
- E NGAGE SOF (eSOF) - USSOCOM FRONT DOOR
- Technical Experimentation (TE) Events
  - Next TE 25-3; 8-12 Sep 2025
- Submit to the BAA for Advancement of Technologies for Use by SOF (https://www.socom.mil/sof-atl/pages/baa.aspx)

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LtCol Jon E. Pynduss
PROGRAM MANAGER – TACTICAL COMMUNICATIONS
PROGRAM EXECUTIVE OFFICER, TACTICAL INFORMATION SYSTEMS

TACTICAL COMMUNICATIONS (TC)

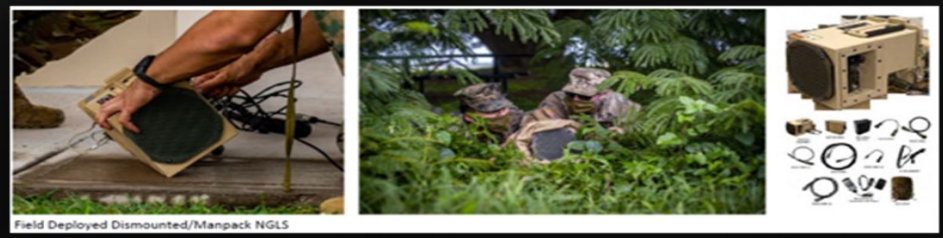
MISSION STATEMENT: Develop, field, and sustain advanced tactical communication systems providing real time hostile and friendly force information, line-of-sight/beyond line-of-sight communications, close-air support, and broadcast capabilities in support of SOF operations in permissive and contested environments.

SOF TACTICAL COMMUNICATIONS (STC): Develops and fields tactical communication radios to SOF Operators that directly support mission preparation and execution in three form factors: PRC-163 Handheld, PRC-167 Manpack, PRC-161 LINK16, and High Frequency radios.

RADIO INTEGRATION SYSTEMS (RIS)/DIGITAL AIDED CAS – GATEWAY-SOF (DACAS-G-S): Provides Specialized Mobile Radio Transit Systems to provide a tactical command and control (C2) communications capability for deployed and forward SOF units. DACAS-G-S supports Mission Command activities and operations by translating data from various disparate message formats.

FLY AWAY BROADCAST SYSTEMS/ BATTLEFIELD DISSEMINATION PLATFORM: Provides SOF forces with an improved broadcast capability to disseminate high quality audio and visuals in support of military information support operations in more austere environments.

FAMILY OF LOUDSPEAKERS/ NEXT GENERATION LOUDSPEAKER:
Provides a transportable audio broadcast systems that provide the Psychological Operations (PSYOP) forces the ability to effectively reach target audiences with high quality transmissions in friendly, denied, hostile or deep territory.



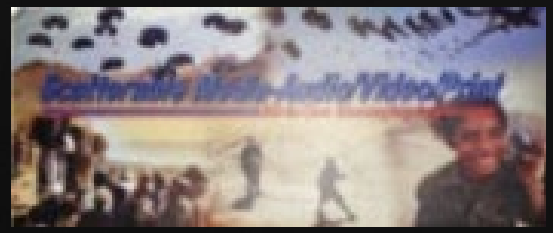
TACTICAL COMMUNICATIONS (TC)

CAPABILITY DEVELOPMENT AREAS

- LPI/LPD Waveforms
- High Throughput Communications
- M-Code PNT
- Modular Payload Radios
- Network gateway translator capabilities

UPCOMING OPPORTUNITIES

- Protocol, Radio, Hardware translator under 1 common API
- SOF Tactical Radios
  - LPI/LPD Waveform development
  - Modular Payload Radios
  - M-Code PNT
- Family of Loudspeakers Dismounted system
  - Wireless capability with onboard memory
  - Battery charger and sound speaker enhancements



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THE ASYMMETRIC STRATEGIC OPTION FOR A VOLATILE WORLD

Lt Col Barry Hammond

PROGRAM MANAGER – REMOTE CAPABILITIES

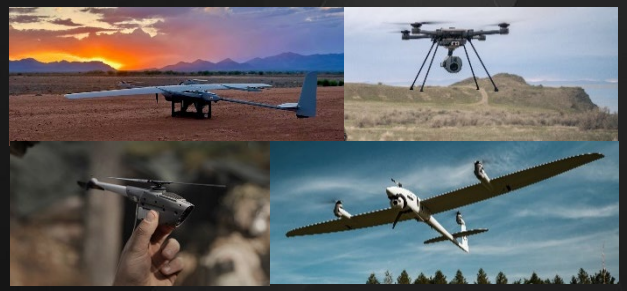
PROGRAM EXECUTIVE OFFICER, TACTICAL INFORMATION SYSTEMS

REMOTE CAPABILITIES (RC)

MISSION STATEMENT: 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.

SMALL UNCREWED MULTI-DOMAIN SYSTEMS (SUMS):

Focuses on Group I & II Uncrewed Aerial Systems (UAS) across seven critical capability areas; rapidly deploys tactical organic robotic and modular payload solutions that support the Intelligence, Surveillance, and Reconnaissance SOF Operator missions.



MULTI-MISSION TACTICAL UNMANNED AERIAL SYSTEMS (MTUAS):

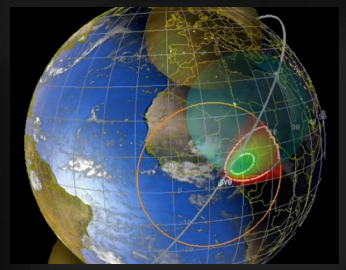
MTUAS – PoR to acquire the materiel solution that fulfills Naval Special Warfare Command requirements for organic, tactical, runway/launch and recovery equipment independent Unmanned Aircraft Systems (UAS).

NATIONAL SYSTEM SUPPORT TO SOF (NSSS)/ TACTICAL EXPLOITATION OF NATIONAL CAPABILITY (TENCAP):

A Military Intelligence Program funded RDT&E program to exploit National capabilities/technologies to bring Intelligence Community information to the tactical SOF warfighter through rapid prototyping and transition to Program of Record (PoR).

SPACE-BASED CAPABILITIES:

Provides rapid prototyping & demonstration of SOF-relevant space-based technologies supporting acquisition PoR requirements.



PEOPLE | WIN | TRANSFORM

REMOTE CAPABILITIES (RC)

MISSION STATEMENT: 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.

CAPABILITY DEVELOPMENT AREAS

Swarm Technology | Decentralized Control and Collective Intelligence | Environment Agnostic Traversability | Value-Driven Multi-Purpose Solutions

- Technologies that exploit national capabilities to provide SOF with enhanced situational awareness
- Technologies that exploit national capabilities to enable SOF to acquire tactical targets
- Technologies that exploit national capabilities to provide signals intelligence and/or geospatial intelligence to SOF
- High Technology Readiness Level flight demonstration ready, Autonomy, long endurance ISR, operate in contested and denied environments, capable of 24/7 Organic operations, safe land and sea launch and recovery
- Modular payload development to inform future PoR requirements, fielding decisions, "Tactics, Techniques, and Procedures", and Concepts of Operation
- Identify and transition developed technologies into (DoD or National) proliferated satellite constellations to address SOF peculiar operational needs

UPCOMING OPPORTUNITIES

SOFWERX Capability Assessment Events (CAE)

- Short Range, Short Endurance (SR|SE) RFI available on SAM.gov (April-May 25)
- Future sUMS CAEs are currently in the development phase with RFIs planned for release in late FY25 and early FY26 (postings via SAM.gov)

MARKET RESEARCH & TECH SCOUTING

"WORKING WITH EXTERNAL MISSION PARTNERS … HELPS SOF APPROACH CHALLENGES IN INNOVATIVE AND HOLISTIC MANNERS STAYING ABREAST OF EMERGING TRENDS." **Per SOF Vision and Strategy*

DIR SCIENCE & TECHNOLOGY
SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS

Broad Agency Announcement
Technical Experimentation Events

SOF WEEK
May 5-8

SOFWERX

Trident Spectre

SOF TRUTH: MOST SPECIAL OPERATIONS REQUIRE NON-SOF SUPPORT

The operational effectiveness of our deployed forces cannot be, and never has been, achieved without being enabled by our joint service partners. The support Air Force, Army, Marine and Navy engineers, technicians, intelligence analysts, and the numerous other professions that contribute to SOF, have substantially increased our capabilities and effectiveness throughout the world.

PARTNERSHIPS

DoD

Other Government Agencies

Academia

WORKING WITH SOF AT&L

- Partnering – Collaboration
- Modular Solutions
- Multiple Points of Entry
- Don't be Afraid of Small Projects
- Warfighter Focus
- Big Leaps as well as Iterations
- Yes, if…

DOING BUSINESS WITH SOCOM

SMALL BUSINESS HELP

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SUBMITTING IDEAS AND CAPABILITIES

Engage SOF (eSOF) on Vulcan

Pathway to present SOF relevant capabilities to USSOCOM
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eSOF@socom.mil
https://www.Vulcan-SOF.com

SOFWERX (Unclass, open forum partnering with industry to solve Warfighter problems)
https://www.sofwerx.org

TECHNICAL EXPERIMENTATION

https://www.socom.mil/SOF-ATL/Pages/technical-experimentation.aspx