SOF AT&L
Special Operations Forces
Acquisition, Technology, & Logistics

COL Timothy Baxter
Military Deputy to the Acquisition Executive
## EXPONENTIAL ENVIRONMENT

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<th>Locations</th>
<th>Missions</th>
<th>Partners</th>
<th>C2 Demands</th>
<th>Marketplace</th>
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<td>More countries, more diverse operating locations, challenging logistics and communications infrastructure</td>
<td>Dynamic, rapidly changing, encompassing the full range of direct, indirect, training, and preparing</td>
<td>Varying degrees of integrations and reach. Interacting in ops, cooperative development and foreign comparative test</td>
<td>Requires seamless, integrated, and effective C2 at the global scale with high confidence</td>
<td>Global and commercially driven. Heavy use of COTS/GOTs increases complexity</td>
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SOF Priorities

Ensure SOF Readiness
“The right people, skills, and capabilities...now and in the future”

Help Our Nation Win
“Addressing today’s challenges and keeping the Nation safe”

Continue to Build Relationships
“Global understanding and awareness that creates options”

Prepare for the Future
“SOF ready to win in an increasing complex world”

Preserve Our Force and Families
“Short and long-term well-being of our SOF Warriors and their families”

SOF Vision
Provide Strategic Options Through a Global Network
MISSION
Provide rapid and focused acquisition, technology, and logistics to Special Operations Forces

VISION
Be the recognized expert and trusted provider to equip and sustain Special Operations Forces

PRINCIPLES
Deliver capability to user expeditiously; exploit proven techniques and methods; keep Warfighters involved throughout process; take risk and manage it!
• Execute 200+ programs, 400+ projects, and 100+ combat evaluations
• Execute 60+ SOCOM contract actions
• Award $13.5M+ in SOCOM contracts
  – of which $8.3M+ are competitively awarded
  – of which $2.5M+ went to small businesses
• Oversee $10M of contracts being awarded by Service program office teams
• Conduct at least one TILO event and one S&T experiment with industry
• Deliver ~30 C4ISR equipment and weapon systems
• Field over 37000 rounds of ammunition
PROGRAM EXECUTIVE OFFICE MARITIME (M)

UNDERSEA SYSTEMS

S301i

UOES 2

UOES 3

Shallow Water Combat Submersible

Dry Deck Shelter / Seal Delivery Vehicle

SURFACE SYSTEMS

Combatant Craft Assault

Combatant Craft Heavy

Special Operations Craft - Riverine

Combatant Craft Medium Mark 1

Maritime Craft Air Delivery System

Security Force Assistance Large

Combatant Craft Forward Looking Infrared

Security Force Assistance Small
PROGRAM EXECUTIVE OFFICE FIXED WING (FW)

**ISR**
- MQ-1 Predator
- MQ-9 Reaper
- RQ-20A Puma
- MEUAS 1.5 Scan Eagle
- JAVAMAN MC-12
- MC-12 Liberty
- RC-26
- U-28

**MOBILITY**
- CV-22 Osprey
- EC-130J Commando Solo
- Dornier 328 C-146
- M-28 C-154A
- PC-12
- MC-130P Shadow MC-130H Talon II
- MC-130J Commando II

**STRIKE**
- AC-130U Spooky
- AC-130H Spector
- AC-130W Stinger II
- AC-130J Ghostrider
- SOPGM

MUNITIONS AND EMERGING TECHNOLOGY TRAINING AND MISSION PLANNING
PROGRAM EXECUTIVE OFFICE COMMAND, CONTROL, COMMUNICATIONS, AND COMPUTERS (C4)

**TAactical Comms**
- SOF Tactical Comms
- Blue Force Tracking
- Fly-Away Broadcast System
- Joint Tactical C4I Transceiver System
- Next Generation Loudspeaker System
- Long Range Broadcast System
- Mobile Communications Initiative

**Enterprise Networks**
- C4 and Intelligence Automation Systems / Special Operations Command Research, Analysis, and Threat Evaluation System
- Media Production Center
- Military Information Support Operations - Print
- Civil Affairs Data Management Processing System
- Military Information Support Operations - Enterprise

**Transport**
- SCAMPI (not an acronym)
- SOF Deployable Nodes / Product Distribution System / Mobile SOF Strategic Entry Point
- Tactical Local Area Network
- Radio Integration System
PROGRAM EXECUTIVE OFFICE SPECIAL RECONNAISSANCE, SURVEILLANCE, and EXPLOITATION (SRSE)

TECHNICAL COLLECTION SYSTEMS
- Hostile Forces – Tagging, Tracking, & Locating
- Special Operations Tactical Video System
- Joint Threat Warning System

IDENTITY OPERATIONS
- Biometrics and Forensics

INTEL SUPPORT SYSTEMS
- Processing, Exploitation, & Dissemination: Distributed Common Ground/Surface System
- Integrated Survey Program
- FMV PED

FOCUSED RDT&E
- Tagging, Tracking, and Locating
- Special Reconnaissance
- Tactical Exploitation of National Capabilities
- Quick Reaction Capabilities

Specialized Communications

UNCLASSIFIED
PROGRAM EXECUTIVE OFFICE SPECIAL OPERATIONS
FORCES SUPPORT ACTIVITY (SOFSA)

STREAMLINE DESIGN AND RAPID PROTOTYPING

PRODUCTION AND INTEGRATION

LIFE CYCLE SUSTAINMENT ACTIVITIES
NEW ENVIRONMENTS

Multiple challenges:

Heavy canopy

Maritime

Non-permissive
STRATEGY OVERVIEW

Understand Gaps

Technology Gaps

Component & TSOC Gaps

PEO Gaps

Threat-Related Gaps

Discover

• Scouting
• Roadmaps
• Red Team

Enable

• Internal Projects
• External Projects
• Studies

Transition

• PEOs
• Military Services
• Enablers, COI, OGA, DoD

Transfer

Understand Technology

Develop Solutions

Deliver “Game Changing” Technology

Maximize Leverage (DoD, Industry, Academia, Partner Nations)

Execute Planned Transitions

Involve Warfighters

Increase Speed

Manage Risk

Technology Gaps

Component & TSOC Gaps

PEO Gaps

Threat-Related Gaps

Deliver “Game Changing” Technology

Maximize Leverage (DoD, Industry, Academia, Partner Nations)

Execute Planned Transitions

Involve Warfighters

Increase Speed

Manage Risk
INDUSTRY ENGAGEMENT

Identify Technology – Provide Feedback – Advance Tech Readiness Level

- Tactical Assault Light Operator Suit (TALOS)
- Technical Industry Liaison Office (TILO)
- Technical Experimentation (TE)
- Unclassified Test Bed (UTB)
- Component Exercises
- SOF Industry Conference (SOFIC)

- Project Vulcan Technology Domain Awareness
- Industry IR&D Outreach
- Other Venues (JIFX, Ex-ART/TSOA)
- Distributed Combustion Chambers
- Other Applicable Conferences

External

Internal
SOF S&T NEEDS

- Comprehensive Signature Management (CSM)*
- Human Performance*
- First Pass Accuracy and Lethality
- Small Unit Dominance (SOFSUD)*
- Intelligence, Surveillance, & Reconnaissance (ISR)
- Tagging, Tracking, & Locating (TTL)
- C4 Revolutionary Capabilities
- Electro-optics, IR, & Lasers
- Military Information Support Operations (MISO)
- Scalable Effects Weapons (SEW)
- Anti-Access/Area Denial (A2/AD)*
- Battlespace Awareness*
- Leap Ahead Energy & Power Systems
- Sensitive Site Exploitation (SSE)

* FY15-19 Science and Technology Integrated Priority List (STIPL)
BROAD AGENCY ANNOUNCEMENTS/SOLICITATIONS

• Consolidated and persistent SOCOM S&T BAA ([USSOCOM-BAAST-2015](#))
  – Incorporates TALOS, SRSE, Tech Roadmap, and S&T Appendices
  – Additional Appendices added as necessary for targeted capability gaps
• Biomedical BAA--United States Army Medical Research Acquisition Activity
• Participate in OSD Rapid Innovation Fund (RIF) BAA, and Small Business Innovative Research (SBIR)/Small Business Technology Transfer (STTR) Solicitations
**PEO TECHNOLOGY INSERTION ROADMAPS**

**C4**
- Stabilized Rapid Adaption of Network
- Security and Network Management/Monitoring of Mobile Ad-hoc Network
- Open Standard Airborne ISR Transport Modem

**Fixed Wing**
- High resolution 3D & multi-color EO/IR, multiple moving target tracking
- Crew workload reduction, machine intelligent processing/Tactical Flight Mgmt
- Situational awareness with full spectrum threat reduction and counter measures
- 105 mm cannon precision guided ammunition and fuses, loitering munitions
- High energy laser, power management, aiming and focus turret
- Multiple colors or spectral bands within the same sensor and SWAP
- Thermal band Identify Friend or Foe (IFF) beacon, backwards compatible

**Maritime**
- Common Operating Tactical Picture
- Low Probability of Intercept/Detection Communications
- Wireless Intercom
- Surface System/Active Ride Control
- Maritime Personnel Signature Management Technologies
- Situational Awareness, High Visual/NIR Transmittance Window Films
• High Power Watts for Over the Horizon Communications
• Improved RW Counter Measures
• Advanced IR Countermeasures & Self-Protection for RW Aircraft

• Maritime Forensics Exploitation Capability
• Portable, Automated 3D Room/Building Mapping Device
• Stand-off/Remote Facial Recognition & Iris Capture
• Dustless Latent Print Collection
• Rapid Identification of Materials for Site Exploitation

• * Transferrable armor for commercial vehicles
• * Helmet sensor system to monitor and record linear and rotational accelerations
• High Sulfur Diesel Engine Capability
• Camouflage Applique
• Reduced IR Signature
• Improved Gun Barrels
• Variable Transmission & Laser Protection Eyewear
• Tactical stand-alone ballistic plate

* Advertised on BAA Appendix D
FOR FURTHER ENGAGEMENT

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INFORMATION ON SOCOM NEEDS, PROGRAMS AND PROCESSES
http://www.socom.mil/sordac

EXPERIMENTATION IDEAS
http://www.socom.mil/sordac/Pages/ExpWithUS.aspx

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