Program Executive Office Command, Control, Communications, and Computers (PEO-C4)

PEO-C4 Mission

Manage the development, acquisition, fielding, new equipment training, and sustainment of command, control, communications, computers, Military Information Support Operations (MISO), and Civil Affairs systems in support of garrisoned headquarters elements and the deployed warfighter.

* Non-Developmental Item Emphasis

* Leverage Others’ Resources

**FUNDING**

- **RDT&E:** $21M $18M
- **PROC:** $220M $209M
PEO-C4 Portfolio

**TACTICAL COMMUNICATIONS**

- SOF Tactical Communications
- Radio Integration System
- Airborne Mission Network
- SOF Deployable Nodes / Mobile SOF Strategic Entry Point
- Tactical Local Area Network

**ENTERPRISE NETWORKS & MISO SYSTEMS**

- SCAMPI (not an acronym)
- SOF Information Technology Enterprise Operations and Maintenance Services
- Special Operations Command Research, Analysis, and Threat Evaluation System
- Fly-Away Broadcast System
- Media Production Center
- Next Generation Loudspeaker System
- SCAMPI (not an acronym)
- C4 Intelligence Automation Systems
- Special Operations Mission Planning and Execution

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Focus on mission threads first, not technology, with emphasis on agility, speed, and reduced overhead.
Industry Engagement

- SOF AT&L-Science & Technology Technical Experimentation Events
  http://www.socom.mil/SOF-ATL/Pages/submit-your-idea.aspx

- Technology & Industry Liaison Office Submissions
  http://www.socom.mil/SOF-ATL/Pages/submit-your-idea.aspx

- SOFWERX Events
  http://www.sofwerx.org
Tactical Communications

Radio Integration System

SOF Tactical Communications

SOF Deployable Nodes / Mobile SOF Strategic Entry Point

Tactical Local Area Network
SOF Tactical Communications (STC)

- Provides Next Generation SOF Communication Systems
- Capabilities Include: Real Time, Hostile and Friendly Force Information; Line of Sight (LOS) and Beyond LOS (BLOS) Communications; and Access to Situational Awareness in the Form of Intelligence Inputs, Broadcasts, and Networks
- Consists of Three Form Factors: 1) Manpack, 2) High Frequency, and 3) Handheld

**ACQUISITION STRATEGY**
- Operational System in Sustainment with Evolutionary Technology Insertions

**PERIOD OF PERFORMANCE**
- Variable, dependent on variant

**MILESTONES**
- Post Milestone C, Sustainment & Capital Equipment Replacement

**POINT OF CONTACT**
- 813.826.9482 (TILO)

**FUNDING**

<table>
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**CURRENT CONTRACT/OEM**
- Harris Corp
- Thales Communications Inc
Areas of Interest

- **Radio Modernization (COMSEC, Waveforms, Capability)**
  - NGHH, NGMP, HHL-16, HF
- **Low Probability of Intercept / Low Probability of Detection for LOS & Beyond LOS**
- **Jam Resistant Waveforms**
- **Non RF Communications**
- **High Bandwidth Technologies**
  - ISR Receive / Distribution, Sensor Feeds, Wideband HF
- **Broadband BLOS (SATCOM)**
  - INMARSAT / MUOS / Man-pack L/S-Bands
- **Antenna Profile Reduction**
  - Retain Performance of Current Antennas, Multi-band Support, Better Fit on the Body, Reduced Visual Signature
SOF Deployable Nodes (SDN)

- Family of deployable, super high frequency, multi-band, SATCOM systems providing deployed SOF users with the transport path for access to the SOF Information Environment
- Provides high-capacity voice, data, VTC, and video at all levels of classification
- Consists of heavy, medium, light, SATCOM on-the-move, airborne ISR transport, and intelligence variants

**ACQUISITION STRATEGY**
- Operational System in Sustainment with Evolutionary Technology Insertions

**PERIOD OF PERFORMANCE**
- Variable, dependent on variant

**MILESTONE**
- Post Milestone C, Sustainment & Capital Equipment Replacement

**FUNDING**
- FY17
  - RDT&E $2.9M
  - PROC $77.5M
- FY18
  - RDT&E $3.0M
  - PROC $75.3M

**CURRENT CONTRACT/OEM**
- L3 Global Comm Solutions
- GATR Technologies
- ViaSat, Inc

**POINT OF CONTACT**
- 813.826.9482 (TILO)
**Areas of Interest**

- **SDN-L Competitive Contract**
  - SDN-L MICROSAT Terminal
  - Draft Request for Proposal Release Planned May 2017

- **Size, Weight, and Power Reduction**
  - Commonality of Systems, Modularity / Flexibility, Reduced Complexity of Operation and Maintenance

- **Multi-band, Capable of Access to Available Architectures**
  - C, X, Ku, Ka, AEHF, Commercial Ka, Out-of-Band Ku

- **Cryptographic Modernization**
  - Embedded, Multi-level Security

- **SATCOM On-The-Move Antennas**
  - Ground, Airborne, and Maritime Platforms; Reduced Profile, Non-Invasive, Modem Agnostic
Tactical Local Area Network (TACLAN)

- Family of systems provides SOF operational commanders and forward-deployed forces advanced automated data processing and display capabilities through a common deployed local area network infrastructure and end user devices.
- Provides specialized and common software applications to support a wide range of SOF mission sets from the individual and small team level to larger Special Operations Task Force (SOTF) contingents.
- Seamless connectivity to multi-level secure networks to facilitate information exchange between the SOF Warfighter, the SIE, and DoD information networks.
- Improves SOF tactical situational awareness, command and control, mission planning and execution activities, and intelligence analysis and reporting.

**ACQUISITION STRATEGY**
- Operational System in Sustainment with Evolutionary Technology Insertions

**PERIOD OF PERFORMANCE**
- February 2013 – 2018 (Ext.)

**MILESTONES**
- Post Milestone C, Sustainment & Capital Equipment Replacement

**POINT OF CONTACT**
- 813.826.9482 (TILO)

**FUNDING**
- FY17: $2.6M
- FY18: $2.4M
- RDT&E: $2.6M
- PROC: $9.8M

**CURRENT CONTRACT/OEM**
- iGov Technologies
- Various COTS/GOTS Partners
Areas of Interest

- **Modular/Scalable Network Infrastructure**
  - Virtual Storage Area Network solutions

- **Lightweight/Portable End User Devices**
  - Commercial Solutions for Classified (NIAP)

- **Trusted Virtual Environment Solutions**
  - Multi-Level Security and Cross Domain

- **Personal Area Network**
  - Wireless and Tethered

- **Cybersecurity**
  - Secure tactical network and mobile communications

- **Military Battery Powered Computing Options**
Ms. Joanne Johnson  
DEPUTY PROGRAM MANAGER, ENTERPRISE NETWORKS AND MISO SYSTEMS
Enterprise Networks & MISO Systems

**Enterprise Networks**
- SCAMPI
- C4IAS
- Airborne Mission Network
- Mobile Comms
- SOCRATES

**Military Information Support to Operations (MISO) Systems**
- Fly-Away Broadcast System
- Media Production Center
- Next Generation Loudspeaker System
- Military Information Support Operations - Print
- Military Information Support Operations - Enterprise
- Multi-Mission Payload

Civil Information Management Data Processing System
Enterprise Networks - Garrison

- Provides garrison infrastructure for unclassified and classified networks and services
- Provides a variety of capabilities / tools for command and control, collaboration, planning, analysis, processing, and dissemination

**ACQUISITION STRATEGY**

- Operational System in Sustainment with Evolutionary Technology Insertions

**FUNDING**

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**FY17/18 Priority Efforts**

- Blanket Purchase Agreement Sustainment Contract
- Life Cycle Replacements for mobility
- Data Center relocations
- SCAMPI Capability Production Document
- Transition to Software Encryption
- Advanced analytics
Special Operations Core Activity
Military information support operations are planned to convey selected information and indicators to foreign audiences to influence their emotions, motives, reasoning, and ultimately the behavior of foreign governments, organizations, groups, and individuals in a manner favorable to the originator’s objectives.

Key Capabilities Researched
• Advanced analytic capabilities
• Radio/TV/cellular production / broadcast
• Highly directional audio
• Advanced functional print

ACQUISITION STRATEGY
• Advanced Technology Development

FUNDING
FY17 FY18
• RDT&E: $9.9M $8.8M
• PROC: $3.3M $3.4M

FY17/18 Priority Efforts
• Functional electronic print
• Narrative descriptive tool, interactive analysis tool, COP
• Social network analysis
• Measures of effectiveness/performance graphic modeling
• Advanced analytics
• Distributed audio-video media
Airborne Mission Network

**SOF Enterprise Level Issues**
- Chat Protocol Interoperability
- IP Configuration Management
- Cyber and Threat Assessments
- Standards “Playbook”
- SOCOM AFSIT Test Equivalent
- AbMN Comms PACE Plan
- AbMN Compliance Cert

**R&D efforts**
- Non RF Comms
- Enhanced Micro Processing
- Enhanced Waveforms: AEHF, WBHF
- DIRTYWERX: Monster Garage
- FOSOV C4 integration
- Comms on the Move
- Phased Array Antennas
- Surface Systems C4 Integration
- Subsurface specific Non RF Comms
- A2/AD

**Enhancing Initiatives**
- Expanded SIL integration and capability
- AbMN Database: interoperability and CM
Areas of Interest

• **Mobility**
  - Commercial Solutions for Classified, Data at Rest Encryption
  - Unified Communications
  - Handheld Devices

• **Virtualization**
  - Reduced Footprint, Centralized Support, Software Defined Network, Cloud Collaboration

• **Next Generation Infrastructure Capabilities**
  - Software Centric Hardware, Co-existence With Legacy Infrastructure, Cross Domain Solutions, Multi-Level Security, Application Performance Management, Next Gen Firewall

• **Network and Service Assurance**
  - Redundancy with Reduced Footprint, Self Healing
  - Reliable and Timely Service Delivery Over Distance while Minimizing Duplicate Infrastructure
  - Cyber Security

• **Intelligence Capabilities**
  - Big Data/Application in Support of Data Center Operations
  - Geospatial, Analyst Software, Web-based and Collaborative Computing, Enhanced Imagery Workstations/Laptops, Geospatial Pattern Analysis and Intelligence Fusion, Compressed Data Search
THANK YOU