SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

Win • Transform • People

Ms. Deb Woods *Program Executive Officer C4*

COMMAND, CONTROL, COMMUNICATIONS, & COMPUTERS OVERVIEW

UNITED STATES SPECIAL OPERATIONS COMMAND

SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS

Program Executive Office for C4

Vision

One Force, One Environment – Reliable, secure communications and seamless connectivity for SOF from dismounted to garrison operations

Mission

Manage the development, acquisition, fielding, new equipment training, and sustainment of C4 and Military Information Support Operations (MISO) systems

FUNDING

	FY18	FY19
• RDT&E:	$41M	$35M
• PROC:	$247M	$417M

Portfolio

ENTERPRISE NETWORKS & MISO SYSTEMS

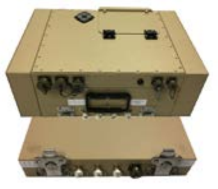
SCAMPI (not an acronym)

MISO-Print

Multi Mission Payload

JWICS/SOFNET
SOCRATES

Special Operations Command Research, Analysis, and Threat Evaluation System



Fly-Away Broadcast System

SOFNET
SIPRNET
NIPRNET

C4 Information & Automated Systems

SOF Information Technology Enterprise Operations and Maintenance Services

Media Production Center

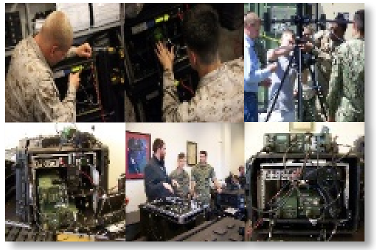
Next Generation Loudspeaker System

TACTICAL COMMUNICATIONS

SOF Tactical Communications

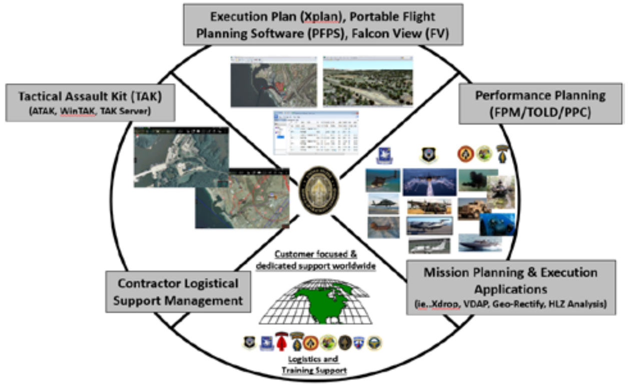
Satellite Deployable Nodes / Mobile SOF Strategic Entry Point

Tactical Local Area Network



Radio Integration System

SPECIAL OPERATIONS MISSION PLANNING & EXECUTION



Execution Plan (Xplan), Portable Flight Planning Software (PFPS), Falcon View (FV)

Tactical Assault Kit (TAK)
(ATAK, WinTAK, TAK Server)

Performance Planning
(FPM/TOLD/PPC)

Customer focused & dedicated support worldwide

Contractor Logistical Support Management

Mission Planning & Execution Applications
(ie..Xdrop, VDAP, Geo-Rectify, HLZ Analysis)

Logistics and Training Support

Focus Areas

- **Acquisition Agility**
  - Non-Traditional Methods
  - Strategic Sourcing
- **Transformational Capabilities**
  - Hyper-Enabled Operator
  - Assured Communications
- **Dynamic Operational Environments**
  - Interagency and International Interoperability
  - Transregional, Multi-Domain, Multi-Functional

SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

Win • Transform • People

LtCol Shelton Richards *PM Tactical Communications, PEO C4*

COMMAND, CONTROL, COMMUNICATIONS, & COMPUTERS OVERVIEW

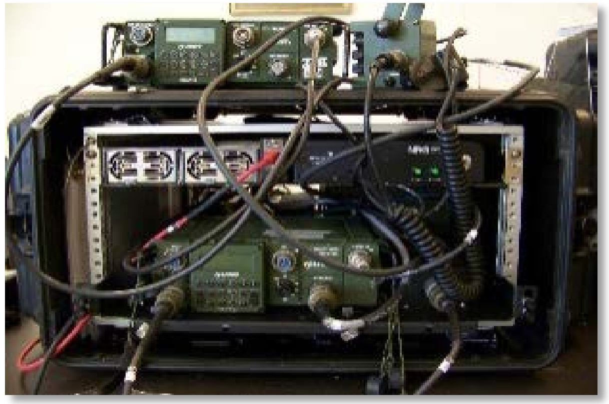
UNITED STATES SPECIAL OPERATIONS COMMAND

PM Tactical Communications

NEXT GENERATION TACTICAL COMMUNICATIONS (NGTC)

SATELLITE DEPLOYABLE NODE (SDN)

RADIO INTEGRATION SYSTEM (RIS)



TACTICAL LOCAL AREA NETWORK (TACLAN)

FIELD COMPUTING DEVICE (FCD)

PM TACTICAL COMMUNICATIONS FUNDING

	FY18	FY19
RDTE	$20.5M	$18.3M
PROC	$170.3M	$178.7M

Next Generation Tactical Communications

- 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

- **Developmental**
- **COTS/NDI**
- **Future capabilities: Evolutionary Technology Insertions**

PERIOD OF PERFORMANCE

- **NGTC systems supported by multiple contracts**

MILESTONES

- **Development/Production/Sustainment**
- **Capital Equipment Replacement Program**

POINT OF CONTACT

- **813.826.9482 (TILO)**

FUNDING

	FY18	FY19
• RDT&E	$13.1M	$4.6M
• PROC	$84.6M	$82.6M

CURRENT CONTRACT/OEM

- **Various**

Satellite Deployable Node (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, and airborne ISR transport

ACQUISITION STRATEGY

- COTS/NDI
- Future capabilities: Evolutionary Technology Insertions

PERIOD OF PERFORMANCE

- SDN systems supported by multiple contracts

MILESTONES

- Production/Sustainment
- Capital Equipment Replacement Program

POINT OF CONTACT

- 813.826.9482 (TILO)

FUNDING

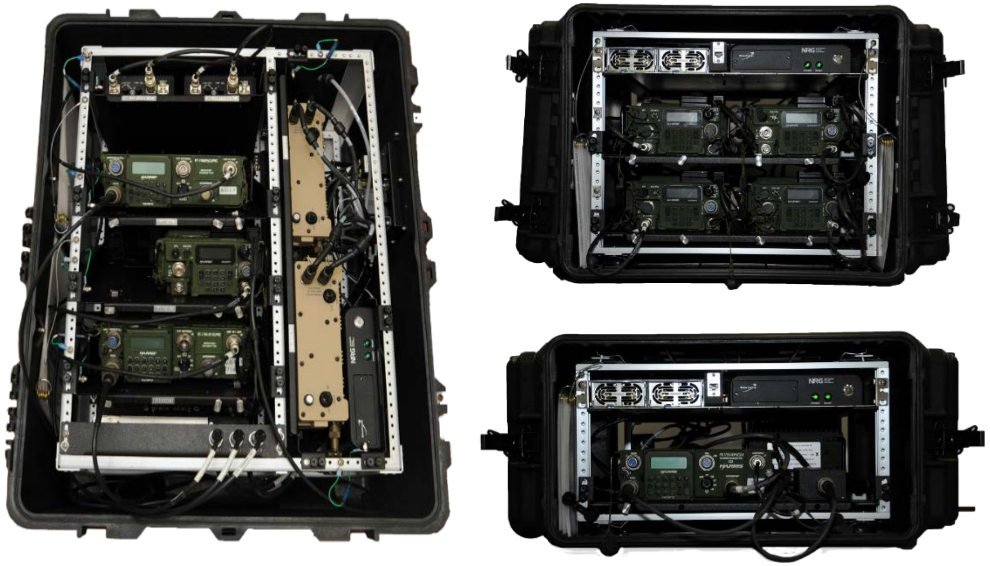
	FY18	FY19
• RDT&E	$5.0M	$9.5M
• PROC	$68.9M	$189.0M

CURRENT CONTRACT/OEM

- Various

Radio Integration System (RIS)

- Provides command, control, and communications (C3) between deployed Special Operations Force (SOF) bases and Liaison teams to SOF headquarters, and SOF support elements
- Modular: Enables the SOF operator to tailor the system to meet current mission requirements
- Scalable: Facilitates reduction in size, weight, and power requirements



ACQUISITION STRATEGY

- COTS/NDI
- Future capabilities: Evolutionary Technology Insertions

PERIOD OF PERFORMANCE

- RIS systems supported by multiple contracts

MILESTONES

- Production/Sustainment
- Capital Equipment Replacement Program

POINT OF CONTACT

- 813.826.9482 (TILO)

FUNDING

	FY18	FY19
• RDT&E	$0M	$0M
• PROC	$2.0M	$5.5M

CURRENT CONTRACT/OEM

- Various

Tactical Local Area Network (TACLAN)

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

ACQUISITION STRATEGY

- COTS/NDI
- Future capabilities: Evolutionary Technology Insertions

PERIOD OF PERFORMANCE

- Feb 2013 to Jul 2018

MILESTONES

- Production/Sustainment
- Capital Equipment Replacement Program

POINT OF CONTACT

- 813.826.9482 (TILO)

FUNDING

	FY18	FY19
• RDT&E	$2.4M	$4.2M
• PROC	$14.8M	$21.7M

CURRENT CONTRACT/OEM

- Various

Field Computing Device (FCD)

- **End User Device for TACLAN suite of software**
  - FCD-Rugged (FCR-R): Semi or fully ruggedized laptop/computer:
    - Fielded to the operators in static deployed positions
  - FCD-Wearable (FCD-W): Handheld Wearable Device:
    - Fielded to the dismounted mobile operator engaged in combat or reconnaissance patrols

FCD-R

FCD-W

ACQUISITION STRATEGY

- COTS/NDI
- Future capabilities: Evolutionary Technology Insertions

PERIOD OF PERFORMANCE

- Feb 2013 to Jul 2018

MILESTONES

- Production/Sustainment
- Capital Equipment Replacement Program

POINT OF CONTACT

- 813.826.9482 (TILO)

FUNDING

	FY18	FY19
• RDT&E	$2.4M	$4.2M
• PROC	$14.8M	$21.7M

CURRENT CONTRACT/OEM

- Various

Tactical Communications Areas of Interest

- Size, Weight, and Power Reduction
  - Modularity, Hardware Commonality, Reduced Complexity of Operation and Maintenance
- ▪ Antenna Profile Reduction
- ▪ Cybersecurity - Secure Communications
- ▪ Cross Domain Solutions
- ▪ Mission Module Technical Insertion
- ▪ Wireless/Tethered Personal Area Network

Tactical Communications Areas of Interest

- **LOS and BLOS Radio Frequency (RF) Communications:**
  - Low Probability of Intercept (LPI)/ Low Probability of Detection (LPD); Jam Resistant Waveforms
- **High Bandwidth RF Communications**
  - Intelligence, Surveillance, Reconnaissance Transmissions; Wideband High Frequency
- **SDN Family of Terminals (Medium and Heavy variants) Competitive Contract**
  - 1.2M – 2.0M Terminals
  - 4Qtr FY18: Planned Release of Draft Request for Proposal
- **Multi-band, Capable of Access to Available Architectures**
  - C, X, Ku, Ka Band
  - High Throughput Commercial Ka Band
- **Satellite Communications (SATCOM) On-The-Move Antennas - Ground, Airborne, and Maritime**

SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

Win • Transform • People

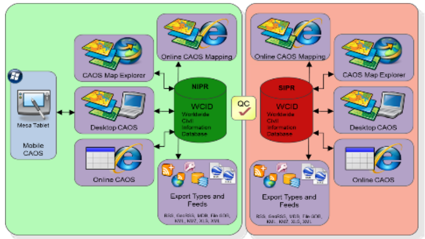
Tricia Hill *PM Enterprise Networks and Military Information Support Operations (MISO), PEO C4*

COMMAND, CONTROL, COMMUNICATIONS, & COMPUTERS OVERVIEW

Enterprise Networks and Military Information Support Operations (MISO)

SCAMPI

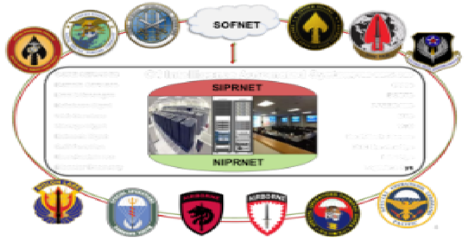
CIMDPS


Mesa Tablet
Mobile CAOS
CAOS Map Explorer
Online CAOS Mapping
Desktop CAOS
Online CAOS
NIPR
WCID
QC
SIPR
WCID
Export Types and Feeds
Online CAOS Mapping
CAOS Map Explorer
Desktop CAOS
Online CAOS
Export Types and Feeds

FLY-AWAY BROADCAST SYSTEM

MEDIA PRODUCTION CENTER

C4IAS

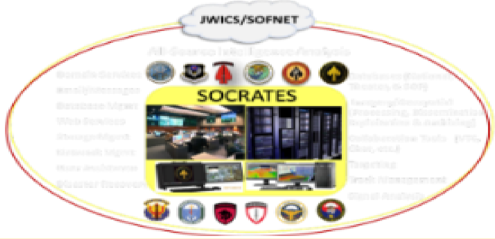

SOFNET
SIPRNET
NIPRNET

MOBILE COMMS

MISO-PRINT

MISO-ENTERPRISE

SOCRATES


JWICS/SOFNET
SOCRATES

ENTERPRISE LICENSE AGREEMENTS

AGREEMENTS

NEXT GEN LOUDSPEAKER SYSTEM

MULTI-MISSION PAYLOAD

DISTRIBUTION A: APPROVED FOR PUBLIC RELEASE

Enterprise Networks - Garrison

- Provides SOCOM Unclassified/Classified garrison infrastructure and end user devices
- Provides SOCOM Telecommunications system enabling network transport voice, data, and video services (all classifications)
- Provides SOCOM intelligence automation enterprise architecture ensuring interoperability with DoD, national, and service intelligence information systems
- Provides a variety of automated tools for Command and Control, collaboration, planning, analysis, processing, and dissemination

ACQUISITION STRATEGY

- Evolutionary acquisition strategy based on availability of COTS
- Future capabilities: Evolutionary Technology Insertions

PERIOD OF PERFORMANCE

- Supported by multiple contracts

MILESTONES

- Production/Sustainment
- Capital Equipment Replacement Program

POINT OF CONTACT

- 813.826.9482 (TILO)

FUNDING

	FY18	FY19
• PROC:	$59.3M	$102.4M
• O&M:	$138.2M	$146.8M

CURRENT CONTRACT/OEM

- Various

Enterprise Networks

Areas of Interest

- **Unified Communications with Management System**
- **Hybrid Cloud leveraging containerized solutions**
- **Network and Service Assurance**
  - Resiliency, Reduced Footprint, Self Healing
  - Reliable and Timely Service Delivery to the tactical edge
  - Cyber Security Tools
  - Network and service optimization
- **Advanced Analytics and Commercial Hybrid Cloud**
  - 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

MISO’s Systems

- **Conveys information to foreign audiences to influence emotions, motives, reasoning, and behavior of foreign governments, organizations, groups, and individuals**
  - Provides loudspeaker variants that transmit live/recorded audio messages
  - Provides multi-media production
  - Provides industry standard broadcast capabilities (radio, TV (UHF/VHF), cellular) integrated into long-loiter UAVs and manned aircraft
  - Provides transportable broadcast systems for digital media processing and RF waveform generation and amplification

ACQUISITION STRATEGY

- Evolutionary acquisition strategy based on availability of COTS
- Future capabilities: Evolutionary Technology Insertions

PERIOD OF PERFORMANCE

- Supported by multiple contracts

MILESTONES

- Development/Production/Sustainment
- Capital Equipment Replacement Program

POINT OF CONTACT

- 813.826.9482 (TILO)

FUNDING

	FY18	FY19
• RDT&E	$13.1M	$4.6M
• PROC	$84.6M	$82.6M

CURRENT CONTRACT/OEM

- Various

MISO

Areas of Interest

- **Internet Access (IA) / Denied Area Internet (DAI)**
  - Provide Social Media To Areas Without Internet Access
- **Distributable Audio Media Systems (DAMS)/Digital Audio Video Media System (DAVMS)**
  - Listen Back Capability
  - Sonic Projection, Remote Programming
  - Web Based Internet Distribution
  - Wireless rechargeable power sources
- **Functional Electronic Print (FEP)**
  - Integrate "flexible micro circuitry" into printable technologies