SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE
Accelerating SOF Innovation

Mr. Vincent Grizio  Program Manager
MISSION SUPPORT SYSTEMS (MSS)
Program Manager
Mission Support Systems

Integrated Survey Program (ISP)
SOF Planning, Rehearsal, and Execution Preparation (SOFPREP)
Distributed Common Ground System for SOF (DCGS-SOF)
Enterprise/All Source Information Fusion (ENT/ASIF)
SOF Geospatial Intelligence Processing, Exploitation & Dissemination (SGIP)
Signal Intelligence Processing, Exploitation, and Dissemination (SIGINT PED)
Program Manager
Mission Support Systems

Multi-INT Capabilities for Operational Intelligence:
• Integration & Interoperability to the Tactical Edge
• Agile Acquisition of Emerging Technologies

Priorities:
• Fielding of Advanced Analytics & Disconnected, Intermittent, Low-Bandwidth (DIL)
• Solutions Framework for Data Exploitation

ACQUISITION STRATEGY
• Partner with National Mission Forces, IC community, Services, SOF C4, and Industry Partners
• Agile software development

PERIOD OF PERFORMANCE
• Multi year support contracts
• HW QRC deliveries in 14 to 90 Days

FUNDING
<table>
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<tr>
<th>APPROP</th>
<th>FY19</th>
<th>FY20</th>
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<tbody>
<tr>
<td>O&amp;M</td>
<td>$48.95M</td>
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<td>PROC</td>
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<tr>
<td>RDT&amp;E</td>
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<td>$ 7.05M</td>
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MSS Portfolio:
• Integrated Survey Program
• SOF Planning, Rehearsal, and Execution Preparation
• DCGS-SOF Enterprise/All Source Information Fusion
• DCGS-SOF Geospatial Intelligence Processing, Exploitation, & Dissemination
• DCGS-SOF Signal Intelligence Processing, Exploitation, & Dissemination
• Mission Command

MILESTONES
• Periodic program reviews
• Technology insertions to field emerging capabilities

CURRENT CONTRACT/OEM
• Multiple: HW, SW, Technology
• Technical Management Support
• Rapid Prototyping
• 3D Database Production
• 3D HPC & Data Center

OPPORTUNITIES
• TILO@SOCOM.mil, 813-826-9482
• Foreign Comparative Test (FCT)
• Small Business Innovation Research
• SRSE BAA, Technical Experimentation
## Integrated Survey Program (ISP)

### Innovation Areas:
- Distributed Data Management for Collection and Synching of Near Real Time Survey Data
- Mobile Technologies for Collection in Disadvantaged, Intermittent and Low Bandwidth Environments
- Cloud-enabled Mobile Application for User Generated Content
- Emerging Standards for 3D Geospatial Data to support Joint SOF Interoperability with Conventional and Coalition Forces

### Description:
- Conducts Technical Surveys to Provide Detailed Tactical Planning Data for Contingency Planning and Crisis Response
- Surveys U.S. facilities and other U.S. interests abroad
- Expanding Mission Set includes Vessels and Aircraft
- CJCS CONPLAN support to Special Operations Forces

### Operational Mission:
- Field Survey Collection and Production
- Dissemination to Garrison and Deployed SOF, DOD/IC, and Interagency
- Data Sharing with Coalition Partners

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SOF Planning, Rehearsal, & Execution Preparation (SOFPREP)

Description:
- Produces Enhanced GEOINT (maps, imagery, and terrain data) and 3D Scene Visualization Databases
- Manages SOCOM’s most comprehensive repository of SOF-common geospatial data
- Database support for Component simulators, JTAC Training Rehearsal Systems, Mission Planning, Virtual Mission Rehearsal, Gaming Engines, and 3D Globes

Operational Mission:
- Garrison system for Geospatial-Intelligence Data Processing, Exploitation, and Dissemination
- Operational Intelligence support for Mission Rehearsal and Planning

Innovation Areas:
- AI/ML to Automate 3D Feature Extraction and Data Correlation
- Rapid, Iterative Prototyping of Emerging Technologies for 3D Geospatial Database Generation
- Emerging Capability Technology Development for SOF-to-Service Transition of OGC CDB to enable a new National Capability
- Emerging Standards for 3D Geospatial Data to support Joint SOF Interoperability with Conventional and Coalition Forces
### DCGS SOF Enterprise/All Source Information Fusion (ENT/ASIF)

**Innovation Areas:**
- AI/ML collaborative development with IC, DoD and commercial partners to improve data analysis and PED
- Work in partnership with IC, DoD and commercial partners on an NSA approved Cross-Domain Solution that facilitates bi-directional search and discovery
- Next generation Natural Language Processor (NLP) utilizing AI/ML

**Description:**
- The Enterprise provides infrastructure and processing capability to allow for worldwide SOF intelligence information sharing
- All Source Information Fusion provides web-based advanced analytical intelligence tools via global cloud services and a disconnected architecture

**Operational Mission:**
- Part of a family of systems providing Intelligence, Surveillance, and Reconnaissance (ISR) Processing, Exploitation, and Dissemination (PED) and analytical capabilities at the Joint Task Force level and below
- Interconnect the warfighter and sensors to find and fix High Value Targets of Interest
- Provide a network-enabled interoperable construct allowing continual unimpeded sharing of intelligence data, information, and services

**Innovation Areas:**
- AI/ML collaborative development with IC, DoD and commercial partners to improve data analysis and PED
- Work in partnership with IC, DoD and commercial partners on an NSA approved Cross-Domain Solution that facilitates bi-directional search and discovery
- Next generation Natural Language Processor (NLP) utilizing AI/ML
SOF Geospatial Intelligence Processing, Exploitation, & Dissemination (SGIP)

Description:
- SOF Imagery PED supports a collaborative and coordinated process for the SOF ISR cycle functions that include planning, direction, processing, exploitation, analysis, production, dissemination, and integration of intelligence data and intelligence products
- Garrison, Deployable and Tactical requirements

Operational Mission:
- Intelligence processing of collected data from various manned and unmanned ISR platforms and sensors
- Near-real-time find-fix-finish-exploit-analyze (F3EA) intelligence operations on a 24/7/365 basis at all levels of warfare (Strategic, Operational, Tactical)

Innovation Areas:
- Tactical Cross Domain Solution
- AI/ML tools and applications that support FMV Analysts such as object detection/tracking, coordinate generation
- Disconnected, Intermittent, Low-Bandwidth (DIL) capabilities
- Sys Admin Support Contract Re-compete FY21
**Signal Intelligence Processing, Exploitation, and Dissemination (SIGINT PED)**

<table>
<thead>
<tr>
<th>Innovation Areas:</th>
<th>Description:</th>
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<tbody>
<tr>
<td>• Capability to leverage existing ISPs in urban areas</td>
<td>• Provides SIGINT exploitation capability in both garrison and deployable environments</td>
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<tr>
<td>• Do more with less - push more data through smaller pipe(s)</td>
<td>• USSOCM SIGINT PED has fielded garrison workstations and deployable nodes</td>
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<td>• Choose your own constellation (SATCOM)</td>
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<td>• SWAP and power independence</td>
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<td>• Remote alerting</td>
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**Operational Mission:**

- Provides SOF SIGINT elements a robust, organic, scalable capability for garrison and tactical SIGINT Processing, Exploitation, and Dissemination
- Interconnect the warfighter and tools to enable a network-based targeting process

**Description:**

- Provides SIGINT exploitation capability in both garrison and deployable environments
- USSOCM SIGINT PED has fielded garrison workstations and deployable nodes
Capability Insertion Opportunities

- Integration and Fielding of Advanced Analytics
- Solutions Framework for OUSD(I) Common Data Fabric
- Automation and Analysis, Incorporate Machine Learning and Artificial Intelligence Capabilities
- Human Language Technology
- Cross-Domain Solution
- Portability / Disconnected Operations Optimization
- Partner with Academia, National Labs, and OGA on Technology Insertion Points