

Special Operations Forces



Industry Conference

Product Line Manager - PED

SPECIAL RECONNAISSANCE, SURVEILLANCE, AND EXPLOITATION



Distributed Common Ground System For Special Operations Forces (DCGS-SOF)

- Operates As Part of Defense Intelligence Information Enterprise And SOF Information Enterprise
- Provides Framework, Data, Services And Applications For SOF Garrison/Deployed Processing Exploitation Dissemination, Advanced Analytics And SOF ISR Enterprise

Acquisition Strategy

- Partner With SIE And Intelligence Community And DCGS Family Of Systems Programs Of Record; Evolutionary Technology Inserts

Period of Performance

- Project Dependent

Milestones

- Milestone C For Enterprise; Sustainment And Capital Equipment Replacement For SIGINT And Full Motion Video PED

Point of Contact

- (813) 826-7443

Funding

- FY12: \$33.9M
- FY13: \$44.1M

Current Contract/OEM

- Multiple - Contact TILO



PED Product Line Manager Responsibilities

- **Dual-responsibilities As Deputy Program Manager For DCGS-SOF**
- **Develops, Integrates, And Tests PED Solutions For Users**
- **Provides Technical Conduit Between Users And Programs of Record**
- **Maintains PED Capability Based Assessment Of Current Operational Systems**
- **Collaborates With Users To Forecast Technology Requirements**
- **Continuously Surveys The Market To Monitor State Of-The-Shelf Technologies**



Technology Areas of Interest

- **Data Discovery And Enrichment In Support Of Intel Analysis**
- **Advanced Data Management Systems**
- **Network Multi-Level/Cross Domain Security Services**
- **Full Motion Video/Motion Imagery (FMV/MI) Exploitation**
- **Multi-Intelligence Fusion And Correlation**



What We Need From Industry

- **Advanced Data Management Systems**
 - **Current State Of The Technology**
 - » Relational Data Base Management Systems (RDBMS)
 - » XML Databases
 - » Object-oriented Databases
 - **Ongoing Efforts**
 - » SIDMS
 - **Where We Want To Be**
 - » Enable The Effective/Efficient Management Of Unstructured Data
 - » A Distributed Data Management System That Reduces The Overhead And Complexity Of Current RDBMS
 - **Potential Game Changers**
 - » Advanced XML Databases At A Maturity Level Of RDBMS



What We Need From Industry

- **Network Multi-Level Security/Cross Domain Security Services**
 - **Current State Of The Technology**
 - » **Cross Domain Solutions Are Complex, High In Cost, And Lack Operational Flexibility In Addressing User Needs**
 - **Ongoing Efforts**
 - » **Evaluating Solutions –E.G., Trusted Virtual Environment (TVE)**
 - **Where We Want To Be**
 - » **Enable SOF Users To Exchange Information, Collaborate On-Demand, And Utilize SOF Required Applications Between Security Domains**
 - **Potential Game Changers**
 - » **Certified/Accredited Classification Labels To Unstructured Data Types**
 - » **Flexible And Robust Algorithms That Enable Current Cross Domain Guards To Support Complex Data Types**



What We Need From Industry

- **Full Motion Video (FMV) Exploitation**
 - **Current State Of The Technology**
 - » Human Analysis, Few Automated Tools
 - **Ongoing Efforts**
 - » High Definition (HD) FMV Upgrades To PED Cells
 - » Content/Semantic Based Search Capabilities
 - » Change /Activity/Object Detection Within FMV Files To Support Video Processing, Exploitation, Dissemination (PED) Processes
 - **Where We Want To Be**
 - » Enable Detection of Objects and Activities Of Interest Within Real-Time and Archival Video
 - **Potential Game Changers**
 - » Object/Activity Auto-Tagging In High Definition Video



What We Need From Industry

- **Multi-Intelligence Fusion And Correlation**
 - **Current State Of The Technology**
 - » **Multi-INT Data Collections Using Single-INT Stove-Piped Systems And Processes—Limited Post-collection Fusion**
 - **Ongoing Efforts**
 - » **Support To SENSORWeb Joint Capability Technology Demonstration (JCTD)**
 - **Where We Want To Be**
 - » **Improve Target Geo-Location/Identification Accuracy, Confidence And Speed**
 - » **Enable Cross Cueing Of Intelligence, Surveillance, And Reconnaissance (ISR) Collection Assets – SENSORWeb Capability**
 - **Potential Game Changers**
 - » **Automated, Real-Time Detection, Identification, And Geo-location Of Target Of Interest, Auto-Project/Predict Movements**
 - » **Cloud-to-Cloud Communications**
 - » **Stand-Alone All Source Intelligence Fusion (ASIF) Capability**



Questions?