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

**Funding**
- FY12: $33.9M
- FY13: $44.1M

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

**Current Contract/OEM**
- Multiple - Contact TILO

**Point of Contact**
- (813) 826-7443
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?