



SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

Command, Control, Communications, and Computers

MRS. CARYN BAIN
Enterprise Networks Division Chief



Enterprise Networks



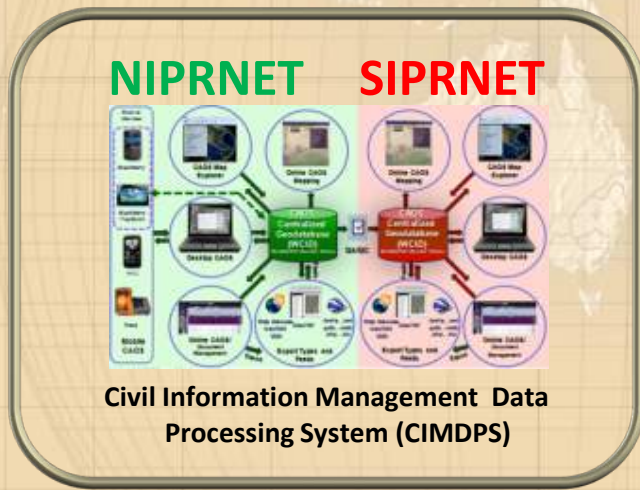
PRINT (MISOP LIGHT/MED/HEAVY)



MEDIA PRODUCTION CENTER (MPC)



**MPC-LIGHT
MPC-MEDIUM**



Command, Control, Communications, Computers, and Intelligence Automation Systems (C4IAS)

- The C4IAS Program provides Special Operations Forces (SOF) with infrastructure for unclassified and classified (SECRET) networks and services. It supports the DoD vision of a net-centric environment for both war fighting and business operations. It globally connects all SOF garrison locations and provides a gateway to networks supporting SOF deployed forces as well as DoD organizations and agencies.

ACQUISITION STRATEGY

- Sustainment with ongoing Evolutionary Tech Insertion

PERIOD OF PERFORMANCE

- Varies

MILESTONES

- Program is post milestone C

POINT OF CONTACT

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FUNDING

- FY13: PROC \$50.458 O&M \$57.218
- FY14: PROC \$39.243 O&M \$77.491

CURRENT CONTRACT/OEM

- SITEC
 - General Dynamics IT (GDIT)
 - L3 Communications (L3COMMS)
 - HP Enterprise Service (HPES)

SOCOM Research, Analysis, and Threat Evaluation System (SOCRATES)

- SOCRATES Is the SOF Extension of the Joint Worldwide Intelligence Communications System (JWICS) Network and is Used to Acquire and Support Garrison Automated Intelligence System Requirements for SOF Organizations Worldwide. It Provides a Gateway to DoD and National Intelligence Information Systems.

ACQUISITION STRATEGY

- Sustainment with ongoing Evolutionary Tech Insertion

PERIOD OF PERFORMANCE

- Varies

MILESTONES

- Program is post milestone C

POINT OF CONTACT

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FUNDING

- FY13: PROC \$7.613 O&M \$28.842
- FY14: PROC \$6.347 O&M \$29.749

CURRENT CONTRACT/OEM

- SITEC
 - General Dynamics IT (GDIT)
 - L3 Communications (L3COMMS)
 - HP Enterprise Service (HPES)

Civil Information Management Data Processing System (CIMDPS)

- The CIMDPS is an automation system that assists active CA and others engaged in civil-military operations to collect, process, analyze, maintain, mine, and deliver civil information and analysis products in support of military operations. The CIM system has four (4) main components:
 - Deployable Data Collection Devices (DDCDs)
 - Automation and Network Equipment
 - CA-Specific Mission Application Software
 - Centralized Data Repositories

ACQUISITION STRATEGY

- Abbreviated Acquisition Procurement Project

PERIOD OF PERFORMANCE

- N/A

MILESTONES

- Program is Pre Milestone C

POINT OF CONTACT

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FUNDING

- FY13: PROC \$1.44M O&M \$1.85M
- FY14: PROC \$.142K O&M \$1.90M

CURRENT CONTRACT/OEM

- SITEC

MISO Print System (MISOP)

The Military Information Support Operations Print System (MISOP) is a family of print systems designed to support the MISO print requirements of a TSOC or GCC using the latest commercial digital press technologies. This family of systems supports from small units to an entire area of operations. The MISOP consists of three variants: the tactical MISOP-L, the MISOP-M (fixed variant) - installed at a fixed site in Qatar supporting USCENTCOM operations and soon, a deployable MISOP-M version from an Abbreviated Acquisition Project, and the strategic MISOP-H at Fort Bragg, NC.

ACQUISITION STRATEGY

- Sustainment With Technology Insertions For Light And Heavy Variants
- Medium Deployable Variant Fielding (3 Systems) This Summer.

PERIOD OF PERFORMANCE

- Sustainment (O&M) Contracts: Annual renewal
- MISOP-M Proc Contract: Ends June 2013

MILESTONES

- All variants post Milestone C

POINT OF CONTACT

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FUNDING

- FY11: PROC
- FY13: PROC
- FY13: O&M

CURRENT CONTRACT/OEM

- Procurement: Tyonek Native Corporation
- Sustainment: Special Operations Forces Sustainment Activity (SOFSA)

Media Production Center (MPC)

Family of Systems (FoS) Consisting Of:

MPC-Heavy (MPC-H): Strategic MISO fixed facility at Ft. Bragg, NC provides capability to acquire and archive raw data and to produce broadcast quality audio, video, and graphics products

MPC-Light/Medium (MPC-L/M): Deployable limited capability to acquire and edit broadcast quality audio, video, and graphics products in direct support of TSOC's and GCC's

ACQUISITION STRATEGY

- Evolutionary Acquisition Strategy utilizing industry standard COTS and SOF RDTE
- Abbreviated Acquisition Projects

PERIOD OF PERFORMANCE

- MPC-H: Adding Unclassified Network Capability: Thru 18 Sep 14
- MPC FoS: Adding Internet/MMS/SMS Production: Thru 8 Oct 13

MILESTONES

- MPC-H NIPR Phase III CDR – 5 Sep 13
- MPC-H NIPR Phase IV CDR – 16 Jan 14
- MPC-H NIPR Full Operational Capability – 18 Sep 14

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FUNDING

- FY12 RDTE
- FY13 PROC
- FY13-14 O&M

CURRENT CONTRACT/OEM

- Task Orders through Special Operations Forces Sustainment Activity (SOFSA)

Media Production Center Enterprise (MPC- E)

- The MPC Enterprise is a socio-technical system comprised of interdependent resources of Soldiers, information, processes, and technologies that must interact with each other and their environment in full support of the MISO mission. This automated environment enables MISO forces to be responsive, adaptive, and effective in the complex nature of conflicts while supporting global persistent engagement strategies and providing a Common Operating Picture (COP) for various levels of Command. The enterprise system will act as a central repository for the analytically intensive MISO/CA atmospheric data collected on mission which provides visibility within the context of a fluid and dynamic collaborative information environment through the COP.

ACQUISITION STRATEGY

- Evolutionary

PERIOD OF PERFORMANCE

- On-going

MILESTONES

- N/A

POINT OF CONTACT

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FUNDING

- R&D

CURRENT CONTRACT/OEM

- Charles River Analytics
- Anacapa Sciences
- Lockheed Martin
- Multiple OGAs

Service Delivery Efforts – Linking SOF to SOF

- Current state of the technology: Mature
- Ongoing efforts: Consolidating enterprise services at key, redundant data centers (Active Directory, Email, Web, DB, Portal, Storage)
- Extend garrison service coverage to the tactical environment via SOF Regional Support Centers (RSCs)
- Where we want to be:
 - 2 geographically separate data centers providing core services for NIPR/SIPR/JWICS networks enterprise wide
 - Service availability 24x7
 - Access to services/data regardless of location/theater
 - Fully redundant applications and data availability
 - Centrally managed
 - Dynamic load balancing
- Potential game changers:
 - WAN acceleration technologies
 - Enterprise management tools



Current Steamlining Efforts Across the Enterprise Division

- Standardizing infrastructure and end user devices on the latest technologies to facilitate economies through bulk purchase and mitigate operational training risk
- Reducing IT infrastructure through virtualization and consolidation of HQ and Component datacenters into the DDC construct

WIN THE CURRENT FIGHT
THE GLOBAL SOF NETWORK
THE FORCE AND FAMILIES
RESPONSIVE RESOURCING

Technology Challenges

- Type 1 Wireless Encryption that supports a minimum of 100 Mbps
- Cross domain Secret And Below Information; Top Secret Wireless; High Availability
- Developing secure WiFi/WiMax tactical cloud for mobile computing in tactical environments
- Multi-level security

Technology Areas of Interest Efforts Across the Enterprise Division

- Service consolidation and delivery with high availability
- Physical infrastructure consolidation & virtualization
- Centralized enterprise storage management and dynamic storage allocation
- Web based application delivery and thin client technologies
- Single wire (network infrastructure) multiple security classifications
- Methodology to index historical unstructured CIM data with the ability to make the data discoverable in a digital environment
- Advanced Algorithms for Cognitive Science and Applications in:
 - Trends and Themes Over Time
 - Data Searching
 - Behavior Modeling
 - Natural Language Processing
 - Measures of Effectiveness
- Multimedia Messaging Service (MMS) and Short Message Service (SMS)
Production Technology

Infrastructure Consolidation Efforts

- Current state of the technology: Mature
- Ongoing efforts: Lifecycle of legacy server infrastructure with blade server technology & virtualization implementation
- Where we want to be:
 - Green IT - Reduced footprint and power consumption via the use of blade servers, virtualization and lights out technologies
 - Reduced infrastructure O&M
 - Intuitive centralized infrastructure management
- Potential Game Changers:
 - Data reduction/de-duplication technologies
 - Storage density technologies
 - Infrastructure consolidation technologies

Storage Management Efforts

- Current State of the Technology: Maturing
- Ongoing Efforts: Testing storage virtualization appliances and technologies in the integration facility
- Where We Want To Be:
 - Intuitive Storage Management Console
 - Centralized Storage Management of All Enterprise Storage Assets Via a Single Pane of Glass
 - Dynamic Allocation and reclamation of Storage
- Potential Game Changers:
 - Storage Virtualization
 - Management Tools That Provide Significant Capabilities Over Existing Toolset

Web Based Application Delivery Efforts

- Current State of the Technology: Mature
- Ongoing Efforts: Transition of Xenapp 4.5 to ver 6.5 and centralization of the capability in the SOF domain vs. decentralized Component Command deployments.
- Where We Want To Be:
 - Centralized Software Management
 - Dynamic Software allocation
 - Reduced Cost of Maintaining/Patching Workstations
 - Redundant, Auto Failover of Web Based Applications
 - Garrison desktop, apps, file access anywhere via any device
- Potential Game Changers:
 - WAN Caching and Acceleration Technologies

Single Network Infrastructure Efforts

- Current State of the Technology: Maturing
- Ongoing Efforts: Single workstation to multiple security classifications (Trusted Virtual Environment)
- Where We Want To Be:
 - Single storage infrastructure
 - Single network infrastructure
 - Single desktop infrastructure
- Potential Game Changers:
 - Distributed storage technologies