



US ARMY
PEO EIS
PEO ENTERPRISE INFORMATION SYSTEMS



Network, Cyber and Services Panel

**Connecting the Army.
Working for Soldiers.**

3 NOV 2021





Defense Communications and Army Transmission Systems

Defense Communications and Army Transmission Systems (DCATS) provides the communications backbone and modernizes IT network infrastructure for the globally engaged Army.



LTC Xkoshan Arnold
Product Manager
GENM-A



Mr. Thomas Dunaway
Product Manager
P2E



LTC Scott Davis
Product Manager
WESS



Mr. EJ Wasikowski
Product Lead
LMR



COL Justin Shell
Project Manager DCATS





PM DCATS Portfolio








WHO WE ARE

300+ Acquisition
 Professionals Modernizing
 the Army's Enterprise
 Network

SUPPORT TO THE SOLDIER

- Strategic Satellite Communications
- IT Infrastructure
- Technical Control Facilities
- Wideband Control Systems
- Voice Modernization
- Network Tech Refresh
- Mission Command from Afar
- Public Safety Communications
- Commercial Best Practices

Wideband Enterprise Satellite Systems (WESS)	Land Mobile Radio (LMR)	Global Enterprise Network Modernization- Americas (GENM-A)	Power Projection Enablers (P2E)	
DOD Satellite Communications	Installation Public Safety Communications	Terrestrial Network Infrastructure		
WORLDWIDE		AMERICAS	PAC – EUR - AFR	
 <ul style="list-style-type: none"> • SATCOM • Ground Segment Modernization • DoD SATCOM Gateway Ground Terminals • Baseband Systems <ul style="list-style-type: none"> ○ Modems ○ Encryption ○ Routing/Switching ○ Power & Timing • Satellite Payload Control Tools <ul style="list-style-type: none"> ○ Planning ○ Monitoring ○ Management 	 <ul style="list-style-type: none"> • Base Support Communications • Computer Aided Dispatch (CAD) • Enterprise Mass Warning and Notification (EMWN) • Land Mobile Radio (LMR) • Wireless – First Responder Broadband Network (FRBN) • Next Generation 911 (NG-911) 	 <ul style="list-style-type: none"> • Installation IT Modernization (CONUS) • Voice Services • Data (NIPR/SIPR/other) • Infrastructure (Fiber/Copper) • Home Station Mission Command Centers • Strategic Command Centers 	 <ul style="list-style-type: none"> • Innovation / Technology Demonstration • Best practices and technology demonstrations • Resilient IT solutions and cloud services • Commercial technology demonstrations at three (3) Army sites 	 <ul style="list-style-type: none"> • Installation IT Modernization (OCOUS) • Voice Services • Data (NIPR/SIPR/other) • Infrastructure (Fiber/Copper) • Strategic Command Centers



Working with Industry

- **Holistic Network Modernization:** The Army has challenged us to show innovation and not modernize “the way we always have”
- **Technology Integration (Capability Sets):** Easily-integrated commercial technology that we can incorporate into every Army base
- **Public Safety:** A System of Systems that facilitates an enterprise solution for all Base Emergency Communications

BEHAVIORS NEEDED

- Easily-integrated commercial technology
- Slam-dunk Business Case
- Show how you will win the best-value competition
- No vendor lock-in
- Show how your product can save the Army money over the long run
- Help us do more with less...

CAPABILITIES NEEDED

- Global SIPR Modernization
- VOIP
- WiFi
- Software Defined Networking
- LMR/FirstNet Integration
- Enterprise Mass Warning Systems
- Computer Aided Dispatch Systems
- Next Generation 911 Integration



U.S. ARMY

Defensive Cyber Operations

Defensive Cyber Operations (DCO) provides the hardware, software and tools to proactively defend the Army's network and enable it to operate unfettered from the threat of cyber attacks. DCO also equips partner nations with cutting-edge information infrastructure capabilities.



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Product Manager
CAD



LTC Bradley Son
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CPS



Mr. Arthur Edgeson
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ACT



Mr. John Swart
Product Lead
TAO



Mr. Brian Bricker
Acting Product Lead
AIT



COL Mark Taylor
Project Manager DCO









Defensive Cyber Operations (DCO) Who We Are

WHAT DOES DEFENSIVE CYBER OPERATIONS DO?

- Provide cyber analytics and detection for cyber threats
- Provide deployable and cloud based defensive cyber solutions
- Provide rapid prototyping capabilities for rapid acquisition
- Foreign military sales - building partner relationships
- Command, Control, Communications, Computers and Intelligence (C5I) acquisition services

TOP GOALS & PRIORITIES

-  To deter or defeat enemy offensive cyberspace operations.
-  Acquire critical capabilities allowing the Army to maneuver with agility to decisively engage the adversary in the cyberspace domain.
-  To support our Active Duty, Reserve Component and National Guard cyber warriors
-  To proactively engage with industry and our stakeholders to create positive communication engagement at all levels.



MISSION

Rapidly deliver innovative and dominant cyberspace capability and tailored information technology solutions to national, joint, and allied partners to provide decisive, warfighting information advantage.

WHO WE ARE



Cyber Analytics and Detection (CAD)
Analyze | Identify | Mitigate



Cyber Platforms and Systems (CPS)
Powerful | Adaptive | Responsive



Applied Cyber Technologies (ACT)
Advance | Incorporate | Maintain



Allied Information Technologies (AIT)
Assist | Build | Train



Technology Application Office (TAO)
Communicate | Control | Defend



Defensive Cyber Operations (DCO) Operational Overview



The employment of defensive capabilities achieve the following objectives: deter, destroy and defeat cyberspace threats; gain time; economy of force; control key terrain; protect tasked critical assets and infrastructure; and develop intelligence

CAPABILITIES NEEDED

- Network Mapping
- Counter Infiltration Tools
- Cyber Intelligence Integration
- Data Analytics – Artificial Intelligence and Machine Learning
- Security Orchestration, Automation and Response (SOAR)
- Threat Analysis
- Forensics and Malware Analysis (F&MA) – Licences, Training, Professional Services and Maintenance
- Deployable Defensive Cyberspace Operations – Modular, New Equipment Training Virtualization
- Cloud Based Garrison Defense



Cyber Analytics (CA)

Big Data Platform (Gabriel Nimbus)

- Facilitates counter-reconnaissance activities, discover the presence of complex threats and vulnerabilities
- Ingest large amounts of data



Threat Emulation (TE)

- Model enemy activity for training and wargaming
- Environments are in a garrison, deployed, or mission partner setting.



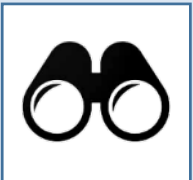
DCO Mission Planning (DCOMP)

- Supports mission planning and situational awareness for Cyber Wargaming, Analyses, Training, Network Visualization
- Coordinating with Joint solution for increased efficiencies and shared capabilities



Defensive Cyberspace Operations Tools Suite

- Software used to detect intrusion and conduct analysis
- Tools are used and developed in all 3 platforms below
- Over 100 tools several are acquired for advanced threats
- Tools continually change as new requirements emerge
- 100% of the tools are available 100% of the time



User Activity Monitoring (UAM)

- Identifies and malicious activity
- Monitors Insider Threat for SIPRNet, JWICS, SAP



Forensics and Malware Analysis (F&MA)

- Rapidly triages cyber-incidents and performs analysis and collection of malicious data. (malware)
- After the fact assessment and resolution
- a trace to source solution and a containment solution.



Emerging Capabilities

Threat Deception: Deceive the Enemy (Reconnaissance) and Detect Intrusions. Allows an operator to monitor the adversary's behavior

Security Automation Orchestration and Response (SOAR): Automated Internal Defense Measures for Evolving Threats

PLATFORMS AND DEVELOPMENT



Deployable DCO System (DDS)

(DEPLOYABLE)

Configurable hardware kit, can be easily fit in an aircraft overhead compartment. It is armed with the ability to tap into a network and host tools for defensive measures.



Garrison DCO Platform (GDP)

(FIXED)

Provides remote operational capabilities and a common platform. It has the ability to integrate with the Big Data Platform, Global Enterprise Fabric and cloud environments.



DCO Development Environment (DCODE)

(Innovation and Deployment)

Forge (Develop), Armories (Deploy), Development Environment (Training, Testing and Integration)



U.S. ARMY

Enterprise Services

Enterprise Services (ES) rapidly acquires, delivers and sustains cost-effective information technology solutions and acquisition services-based capabilities for the Army. ES provides the Army with the means to communicate anytime, anywhere and on any device.



Mr. Sergio Alvarez
Acting Project Director ES

Mr. Boyd Williams
Product Director
ALTESS

Mr. GW Burnside II
Product Lead
AESMS

Mr. Brent Thompson
Product Lead
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Mr. Wayne Sok
Product Lead
CHES

Mr. Palmer Mitchell
Product Lead
EC

Mr. David Thompson
Product Lead
EC2M





Project Director Enterprise Services (PD ES)

Who We Are



Acquisition, Logistics and Technology Enterprise Systems and Services

ALTESS expanded the Fort Bragg NIPRNet Army Enterprise Data Center (AEDC) environment and is targeting FY21 completion of the SIPRNet AEDC buildout.



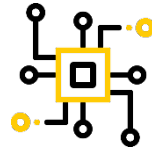
Army Enterprise Staff Management System

AESMS ETMS2 solution exceeded 89K users and 49 organizations comprised of all DOD Services and members of the 4th Estate



Computer Hardware, Enterprise Software, and Solutions

The CRESS portfolio has more than 180 IDIQ contracts that provide customers with enterprise-wide COTS IT hardware, software, and services solutions



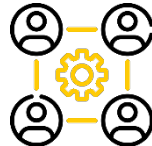
Enterprise Computing

EC Army Enterprise Service Management Platform (AESMP) program will encompass an Army wide global unclassified and classified Information Technology Service Management (ITSM).



Enterprise Content Collaboration and Messaging

EC2M is expanding ICAM services to include virtualized Identity Directory Services, Identity Governance and Administration (IGA), and adopting Zero Trust capabilities



Human Resource Solutions

HR Solutions has awarded 40 new enterprise-level task orders under its 5th generation IDIQ suites with a total value of over \$1B

Shaping Acquisition, Driving Innovation



BY THE NUMBERS

- Decommissioned the AKO unclassified and classified environment, resulting in savings to the Army of approximately \$100M for the next five years.
- Completed 1,053 of 1,218 sites from LDAP, to new Army Master Identity Directory (AMID).
- Awarded National Guard Bureau's Reserve Component Transition Assistance (NGB RCTA) Task Order (\$48.7M). Provides Transition Assistance Advisors in all 50 States and Territories.

WHAT WE DO

ES develops, implements and manages commercial IT contracts that provide enterprise-wide net-centric hardware, software and support services for the Army. It also provides centralized acquisition management services for enterprise-level, human resource, knowledge-based services and training to DOD-requiring activities.





QUESTIONS





The Army relies on PEO EIS

Connecting the Army.
Working for Soldiers.

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