# Designing and Deploying a Unified Network: A PM Perspective

**PEO EIS PM Panel**
- **Mr. Lee James III, APEO, Business Mission Area, PEO EIS**
- **Mr. Sergio Alvarez, Acting PD, ES, PEO EIS**
- **COL Jay Shell, PM, IEN, PEO EIS**
- **COL Mark Taylor, PM, DCO, PEO EIS**

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**Connecting the Army.**

**Working for Soldiers.**

# Enterprise Services
## Portfolio

**Who We Are**
- The recognized leader in shaping enterprise services acquisitions and driving innovation across the Army

**Support to the Solider**
- By leading the transformation of the Army's legacy IT services to a shared enterprise services model, enabling a seamless, integrated front-end for the Soldier on any trusted device, anywhere and anytime
- By increasing efficiencies and aligning resources to deliver enterprise-level IT capabilities that enable end-to-end collaboration, messaging and content management across the Army workforce

| Acquisition Logistics Technology Enterprise Systems and Services | Army Enterprise Staff Management System | Computer Hardware Enterprise Software and Solutions | Enterprise Computing | Enterprise Content Collaboration and Messaging | Human Resource Solutions |
|---|---|---|---|---|---|
| ALTESS | ARMY ENTERPRISE STAFF MANAGEMENT SYSTEM | ARMY CHESS COMPUTER-HARDWARE ENTERPRISE SOFTWARE AND SOLUTIONS | EC ENTERPRISE COMPUTING | EC2M | HR SOLUTIONS |
| • Capability Delivery and Application Modernization<br><br>• Computing Infrastructure<br><br>• Cybersecurity<br><br>• Operations and Processes<br><br>• Facility Infrastructure | • Document Management<br><br>• Records Management<br><br>• Acquisition & On-Boarding Support to Staff Management Systems (DOD & Army) | • Hardware<br>- ADMC 2/3<br>- ITES 3H<br>- AIT RFID<br>- Mobility Services<br><br>• Software<br>- Agreements<br>- ITES SW2<br>- ESI<br><br>- Services<br>- ITES 3S<br><br>- Consolidated Buys | - Manage Service Provider<br>- Acquisition Services | - Identity Credential and Access Management<br><br>- SharePoint Online Transition<br><br>- MilSuite<br><br>- Acquisition Services | - Soldiers & Family<br>- Professional Program Support<br>- Professional Curriculum & Development & Instruction<br>- Record Keeping<br>- Special Programs<br>- Project Management Support |

# Enterprise Services

## Mr. Sergio Alvarez

### Priorities
- Emerging Tech/Legacy Divestment
- Army Enterprise Hybrid Cloud/AEDC
- ICAM - Privileged Access Management (PAM) Development
- Enterprise Identity Management
- Cloud Migration

### Industry Best Practices
- We have two customers:
  - The Soldier
  - The Taxpayer
- Always do what's right
- Have the right people at the table
- Identify and engage key participants
- Communicate with precision
- Remain flexible and fluid
- Identify challenges and propose solutions

### Business Opportunities
- Capacity on demand hardware as a service
- MilTech
- Identity as a Service (IaaS) Privilege Access Management (PAM)
- CHESS: ITES 4H & 4S

### Strategic Initiatives
- Monitor industry technological changes and trends
- Forge strategic partnerships
- Migration to cloud-based solutions and Applications
- Best solutions to modernize Army IT

# Integrated Enterprise Network
## Portfolio



| GLOBAL ENTERPRISE NETWORK MODERNIZATION – AMERICAS (GENM-A) | | GLOBAL ENTERPRISE NETWORK MODERNIZATION – OCONUS (GENM-O) | WIDEBAND ENTERPRISE SATELLITE SYSTEMS | LAND MOBILE RADIO |
|---|---|---|---|---|

| Installation IT Modernization (CONUS) | Innovation / Technology Demonstration | Installation IT Modernization (OCONUS) | SATCOM Ground Segment Modernization | Base Support Communications |
|---|---|---|---|---|
| • Voice Services<br><br>• Data (NIPR/SIPR/other)<br><br>• Infrastructure (Fiber/Copper)<br><br>• Home Station Mission Command Centers<br><br>• Strategic Command Centers | • Best practices and technology demonstrations<br><br>• Resilient IT solutions and cloud services<br><br>• Commercial technology demonstrations at three (3) Army sites | • Voice Services<br><br>• Data (NIPR/SIPR/other)<br><br>• Infrastructure (Fiber/Copper)<br><br>• Strategic Command Centers | • DoD SATCOM Gateway Ground Terminals<br><br>• Baseband Systems<br>•Modems<br>•Encryption<br>•Routing/Switching<br>•Power & Timing<br><br>• Satellite Payload Control Tools<br>•Planning<br>•Monitoring<br>•Management | • Computer Aided Dispatch (CAD)<br><br>• Enterprise Mass Warning and Notification (EMWN)<br><br>• Land Mobile Radio (LMR)<br><br>• Wireless – First Responder Broadband Network (FRBN)<br><br>• Next Generation 911 (NG-911) |

# Integrated Enterprise Network

## Col. Jay Shell

### Priorities
- Field Global SIPRNet modernization
- Divest of legacy telephony infrastructure for VOIP
- Pilot net technology for Army-wide adoption
- SATCOM Ground Segment Modernization
- Inform LMR & CAD capital investment — manage obsolescence and complete ongoing modernization work commensurate with allocated funding
- Inform future of Bases' infrastructure modernization

### Strategic Initiatives
- Field a globally-interoperable SIPR Network to enable connectivity for all customers at every echelon
- Reduce ~75% of Army's hard phones for Soft Clients
- Leverage enterprise investment and commercial technologies to decrease lifecycle costs
- Base Emergency Communications System convergence (5 capabilities: CAD, LMR, EMWN, NG-911 and FirstNet)
- Strategic SATCOM Army-facing in the Unified Network

### Industry Can Help
- Help us think "big picture" across the Army and DoD based on how you see us
- Bring solutions to our hardest problems — know the customer
- Cost-effective sustainability using industry standards (no vendor lock-in)
- Provide mature technologies that can be integrated into current network
- Execute short-term wins to build momentum

### Business Opportunities
- Voice MOD 2.0
- Army Enterprise SIPR Modernization
- PACIFIC / EUROPE CAPSET
- LMR / CAD Increases
- EDIM Modem

# Defensive Cyber Operations

## Col. Mark Taylor

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

**LTC Dakota Steedsman**
**Product Manager**

**Cyber Analytics (CA):** Facilitates counter-reconnaissance activities, discover the presence of complex threats and vulnerabilities

**DCO Mission Planning (DCOMP):** Supports mission planning and situational awareness for Cyber Wargaming, Analyses, Training, Network Visualization

**User Activity Monitoring (UAM):** Identifies and malicious activity, Monitors Insider Threat for SIPRNet, JWICS, SAP

**Threat Emulation (TE):** Model enemy activity for training and wargaming

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

**LTC Brad Son**
**Product Manager**

**Deployable DCO System (DDS):** Configurable hardware kit, can be easily fit in an aircraft overhead compartment

**Garrison DCO Platform (GDP):** remote operational capabilities and a common platform.

**DCO Tools Suite:** Software used to detect intrusion and conduct analysis

**Forensics and Malware Analysis (F&MA):** Rapidly triages cyber-incidents and performs analysis and collection of malicious data

**Counter Infiltration (CI):** Deceive the Enemy and Detect Intrusions.

### Applied Cyber Technologies (ACT)
**Advance | Incorporate | Maintain**

**Mr. Art Edgeson**
**Product Lead**

**Forge (Develop):** Enables industry, academia, and military to work together to solve the Army's cyber challenges. Delivers fielded capabilities to Armories for distribution to Operational Forces.

**Armories (Deploy):** Provide storage, maintenance, operational patching, and configuration for hardware and software critical to cyberspace warfare.

**Development and Security Operations Environment (DevSecOps):** An environment for the creation and development of secure software solutions (Training, Testing and Integration)

### Allied Information Technologies (AIT)
**Assist | Build | Train**

**Mr. Ryan Greeney**
**Product Lead**

- U.S. and Partner Nation Security and Interoperability, Non-Standard IT Solutions
- Foreign Military Sales Lifecycle and Acquisition
- Foreign Policy Review and Oversight

### Technology Application Office (TAO)
**Communicate | Control | Defend**

**Mr. John Swart**
**Product Lead**

- Functionally integrated, task force organization designed to provide centralized, life-cycle management
- Engineering, fielding, and operation of IT and infrastructure projects, supporting programs

# Defensive Cyber Operations
## Col. Mark Taylor

## Priorities

- Fully operationalize The Army's Big Data Platform, Gabriel Nimbus (GN) across NIPR, SIPR, JWICS

- Field the next generation of deployable capabilities to cyber defenders

- Deploy Forensics and Malware Analysis (F&MA) and Threat Emulation (TE) capabilities

- Deploy DCO Tools Suite Version V (FY23)

- Modernize our DevSecOps and Armory processes to meet operational needs

- Continue Fielding of User Activity Monitoring (UAM) to classified networks and begin transition to the next generation UAM solution

- Seamlessly transition Defensive Cyberspace Operations Mission Planning (DCOMP) to Joint Cyber Command and Control (JCC2)

## Strategic Initiatives

- FY23-27 DCO Information Systems Initial Capabilities Document (IS-ICD) IT BOX  Renewal

- Integrate Army DCO acquisition efforts within the United States Cyber Command (USCC) Enhanced Budget Control (EBC) environment

- Support the Unified Network Operations (UNO) with:

  - Unified Security Information and Event Management (SIEM) Solution

  - Extend network fabric through LEAP Lower Echelon Analytic Platform (LEAP) and LEAP Tactical (LTAC)

- Continue to showcase the benefits of Research, Development, Test and Evaluation (RDT&E), Budget Activity (BA-08) Single Appropriation

## Industry Needs

- Be innovative with the delivery of integrated solutions

- Remain flexible with rapid delivery of products

- Provide metrics demonstrating your value

## Upcoming Business Opportunities

- Future Garrison Defensive Cyberspace Operations Platform (GDP) enhancements

- Deployable Defensive Cyberspace Operations System – Modular (DDS-M) Version II

- DCO Tools Suite Version V

- Gabriel Nimbus (GN) Expansion

# The Army relies on PEO EIS

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