Armed Forces Communications and Electronics Association

Luncheon Meeting

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PEO C3T
PEO C3T supports the Army

Integration of New Technology

- **PdM NS**: Synchronization of Future Networks and Tactical Radios
- **PM MEP**: Power Management (Standardization, Architecture and Distribution) and Environmental Controls
- **PM WIN-T**: Network and Warfighting Services Transport Enabling Technologies and Tactical Operation Centers
- **PM MC**: Mission Command Applications and Collaborative Tools
- **PM FBCB2**: Command & Control with Situational Awareness

**PD COMSEC**: Communications Security

**milTech Solution**: Application Support

**SPO**: Special Projects

**PD TNI**: Network Initialization

**Technology Transition (T2)**

**SE&I IPT**: New Technology Requirements

**SYSTEM OF SYSTEMS**

**FIELDING PROCESS**: Unit Set Fielding (USF)

**SUPPORT PROCESS**: Single Interface to the Field (SIF)

**SYSTEM OF SYSTEMS**
Mission Command

- PM MC Products - allow Soldiers to plan and execute fires, disseminate intelligence, plan logistics and collaborate and share battlefield information in a whiteboard-like environment
- Collapse Strategy - will combine logistics, fires, airspace, and air defense software systems onto a single system
  - Will significantly enhance collaborative mission planning and execution
Warfighter Information Network-Tactical

**WIN-T Increment 1**
- Fielded to 80% of the active Army
- Designed using 85% commercial off-the-shelf technology
- Voice, video and data at the battalion and above; at the quick halt

**WIN-T Increment 2**
- February 3 – DAB approves a Milestone C Low Rate Initial Production decision
- April – IOT&E; fielding in FY13
- Voice, video and data at the company and above; on-the-move
Force XXI Battle Command Brigade-and-Below

FBCB2/BFT
• Tracks and displays friendly vehicles and aircraft that appear on a computer screen as blue icons over a topographical map or satellite image on the ground

Joint Battle Command-Platform (JBC-P)
• Increased security, bandwidth and data to joint Soldiers
• Enhanced maps and a new user interface
• Will leverage commercial enhancements to smart phones and provide handheld version of JBC-P
Mobile Electric Power

• Provides generator sets that are the lifeblood for the digitized battlefield capabilities in a Command Post

• Today, PM MEP continues to baseline generators into small, medium and large types

• PM MEP has standardized the DOD’s fleet of generators

AMMPS
• FRP decision on July 20; 21 percent more fuel-efficient on average than the currently deployed Tactical Quiet Generators
• Will soon deploy to Afghanistan; expected to save 300,000 gallons of fuel each month
• More than 357,000 million gallons of fuel are delivered to the battlefield every year

Microgrids
• Consists of “smart” generators that link with one another to intelligently manage the power supply and operate at peak efficiency
• Enables the use of alternative energy sources and energy storage
• A 1 MW microgrid will replace 22 generator sets with just four larger sets
Network Integrated Evaluation

Semi-annual events designed to integrate and mature the Army’s tactical network
NIE coordination is led by a 3-party triad: PEO I, which leads the triad on behalf of ASA(ALT); ATEC and BMC

**NIE 11.2 Concluded in July**
• **First stage**: Formally tested 5 PORs, including PEO C3T’s JCR and NIK
• **Second Stage**: Less formally evaluated developmental and emerging network capabilities
  - PEO C3T had the lead to integrate each MC solution on the network
  - Worked with the other involved PEOs and entities to provide equipment
    • Included WIN-T Inc. One; AN/PRC-117G; SINCgars; EPLRS; current and future iterations of FBCB2 and MC applications
    • PdM SATCOM fielded a full brigade complement of 15 SNAP terminals to the 2/1 AD

**NIE 12.1 Begins in October**
• PEO C3T will continue to build and integrate the NIE network
• Will introduce industry involvement and begin to formalize the network architecture for future BCTs

(below) NIE operations at White Sands Missile Range, NM.
Needs From Industry

**SWAP**
- Will be an important consideration for OTM environment
- Important to “miniaturize” and “ruggedize” commercial equipment to suit the military
- SWAP placeholders in smartphones’ build, will allow us to add encryption devices

**Tighter Integration With Industry**
- Corporations should work with the DoD to think of the military’s needs as they develop products for the commercial market
- An advance glimpse into technology corporations’ long-term roadmaps will be beneficial to both entities

**Shared Enhancements**
- Continued enhancements, so products can withstand extreme temperatures on the battlefield
- Utilizing existing capabilities from other corporations rather than reinventing from scratch
How to Reach PEO C3T

• **Business Inquiries**: PEO C3T Technical Industrial Liaison Office:
  
  http://peoc3t.army.mil/tilo/

• **Public Website**: 
  
  http://peoc3t.army.mil/

• **Contact Us**: 
  
  http://peoc3t.army.mil/c3t/contact-us.php

• **Social Media Websites**: 
  – **Facebook**: http://www.facebook.com/peoc3t
  – **Twitter**: http://twitter.com/ArmyConnect
  – **Flickr**: http://www.flickr.com/photos/peoc3t