2006 Combat Vehicle Conference

“Today’s Legends: How our legacy systems will contribute to the future.”

Program Executive Office
Ground Combat Systems

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PM MBE Mission

PM Modular Brigade Enhancements will serve as the **Army’s centralized manager** for integrating combat capabilities into the Army’s Modular Brigade Force.
“Spin Out 1” to the Current Force

Capability Improvements:
- Force protection
- Precision networked fires
- Interoperability

Milestones:
- First Network Kit Delivery –2007
- Software Qualification –2007
- Milestone C –2008

Relevant to Today’s Force
Spin Out 1 Systems

Non Line-of-Sight – Launcher system
One NLOS-LS System consists of:
- 1 Container Launch Unit (CLU) with 1 CCS and 15 PAMs
- Hand held control device in Computer Communication System (CCS) (PDA)
- Unit will have Training Prototype CLUs with CCS
- Platform Independent
  - preferred vehicle is FMTV
  - May be fired from any transport vehicle

CLU – Container/Launch Unit
PAM – Precision Attack Missile
CCS – Computer & Communications System

Urban – Unattended Ground Sensors
-One U-UGS System consists of:
  - 2 Gateways
  - 5 Imaging Nodes
  - 10 Intrusion Detection Nodes

Intrusion Detect Sensor
Imaging Sensor

Integrated Computer System (ICS)

Tactical – Unattended Ground Systems
-One T-UGS System consists of:
  - 2 Gateways
  - 8 ISR nodes
  - 2 EO/IR Sensor Nodes
  - 1 RN Node
  - 1 HCLM Node

ISR – Intelligence, Surveillance, and Reconnaissance
EO/IR – Electro-Optic Infrared Sensor
RN – Radiological Nuclear
HCLM – Hazard/Clear Lane Markers
PM MBE Mission

- Coordination of installed performance for current platforms integrated with FCS content
- Coordination of fielding activities with appropriate agencies
- Lead MS C preparation and execute LRIP review
- Lead IOT&E preparation and execution
- Synchronize activities of non-FCS SO1 contributing PEOs and LCMCs in support of Material Release, NET development and preparation for fielding
- Lead Fielding decision preparation and execute Fielding decision
- Develop and execute Material Fielding plan
- Execute Post MS C test requirements
- Coordination of Performance Based Logistics strategy for incorporation into brigades that receive SO technologies/capabilities
- Coordinate and facilitate the integration of Spinout and Program of Record Systems into Current Force BCT through a rigorous Systems Engineering process
- Coordination of installed performance for current platforms integrated with FCS content
Innovative Spinout Management Strategy

Management Approach

- Tri-Chair Led Program Management Reviews
- SE based Program Management (SEP to be developed)
  - Integrated Master Schedule
  - Risk Management tracking
- Leveraging each other organizations

- Close interface with all SO organizations
- PM FCS(BCT) and PEO GCS closely aligned
- Spin Out Integration Board (SIB) controlling SO content
- Mutual planning on all SO major milestones through BLRIP
- One Face to the Warfighter

PM Spin Out/LSI
SO content focus
COL Chris Deluca

PM Modular Brigade Enhancements
Fielding focus
COL Ray Jones
Synchronizing Spin-Outs with ARFORGEN

Army’s Operational Priorities

- Network, U-UGS, T-UGS, IMS, NLOS-LS
- Field the highest-payoff FCS spin-out systems to as many BCTs as fast as possible
- Intent is for all BCTs to receive FCS sensors and common network capabilities

Concept for Fielding FCS Spin-Outs

- Field FCS spin-outs to BCTs in the Reset/Train force pool
  Rationale: quality unit training with new ISR and network battle command capabilities significantly improves the payoff during operational employment
- Include ARNG, APS and Theater Equipment
- Revisit fielding FCS spin-outs to units until all BCTs have received Spin-Out 4 capabilities or converted
- Continue fielding FCS spin-outs simultaneously with FCS unit conversions

Example

- VCSA: “No drive by fieldings!”

FY 10 Reset/Train Group 1 receives Spin 1
FY 11 Reset/Train Group 2 receives Spin 1
FY 12 Reset/Train Group 3 receives Spin 1/2
FY 13 Reset/Train Group 1 receives Spin 1/2
FY 14 Reset/Train Group 2 receives Spin 1/2/3
FY 15 Reset/Train Group 3 receives Spin 1/2/3
FY 16 Reset/Train Group 1 receives Spin 1/2/3/4
FY 17 Reset/Train Group 2 receives Spin 1/2/3/4
FY 18 Reset/Train Group 3 receives Spin 1/2/3/4
A/BKit Integration Example

Standard SO1 BKit

- **Challenge**: Specific configurations of tactical vehicle variants vary from brigade to brigade
- **Path Forward**: Designing a standardized A/BKit to fit multiple tactical vehicle variants and configurations

Currently only focusing on one tactical vehicle variant AKit design to support the SO1 LUT
The Challenge

- Synchronize multiple programs across multiple organizations
- Synchronize acquisition strategy with standup of Evaluation Brigade Combat Team
- Align Life Cycle Management Command (LCMC) processes with capability based acquisition
- Develop a single Army Integrated Master Schedule and Plan to manage spin out
- Develop a process to manage, report, and predict integrated capabilities vs. program metrics
- Establish a budget and contract structure that supports capability management vs. individual project management
- Organize a program office that acts and thinks in terms of capability management (Break the “Stovepipes”!)