

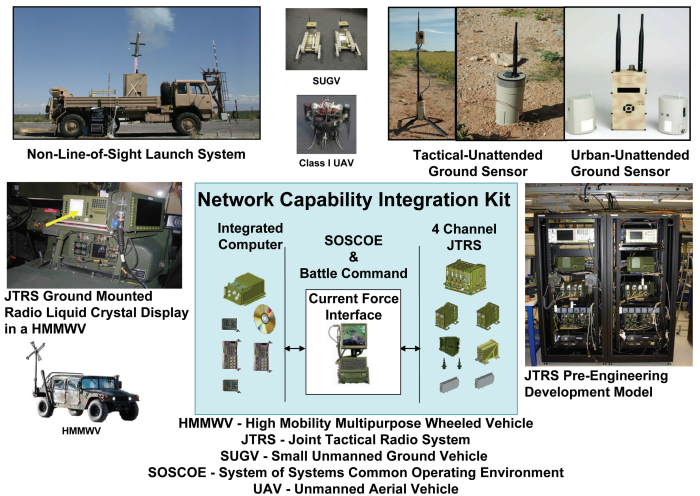
Future Combat Systems: Infantry Brigade Combat Team (FCS: IBCT) Spin Out

Executive Summary

- In 2008, the Army redefined its approach to the Spin Out of FCS systems to current force Brigade Combat Teams (BCTs). FCS Spin Out systems will now be fielded first to Infantry Brigade Combat Teams (IBCTs) as opposed to the Heavy Brigade Combat Teams, as previously planned.
- As a result of this program refocus, the IBCT Spin Out Limited User Test (LUT) scheduled for July 2008 was rescheduled for summer of 2009.
- The main technical challenge to Spin Out systems will be the ability to effectively manage and integrate battlefield information and images from the Unattended Ground Sensors (UGS), Class I Unmanned Air Systems (UAS) Block 0, and Small Unmanned Ground Vehicle (SUGV) on the Spin Out network.

System

- The Army intends to use the FCS IBCT Spin Out program to field selected FCS systems to current force IBCTs. The Army plans to field the first IBCT equipped with Spin Out systems in FY11.
- Planned FCS IBCT Spin Out capabilities include:
 - Network Capability Integration Kit mounted on a High Mobility Multi-purpose Wheeled Vehicle (HMMWV), consisting of:
 - Integrated Computer System with FCS battle command software
 - Force XXI Battle Command, Brigade and Below (FBCB2) Joint Capability Requirement software
 - Four channel Joint Tactical Radio System – Ground Mobile Radios (JTRS GMR)
 - Unattended Ground Sensors (UGS)
 - Tactical UGS (T-UGS) including a Gateway, Intelligence, Surveillance, and Reconnaissance sensors, Radiological and Nuclear (RN) sensors, and Electro-Optical/Infrared (EO/IR) sensors
 - Urban UGS (U-UGS), which are small, leave-behind imaging and intrusion detection sensors emplaced in structures such as buildings, caves, and tunnels
 - Non-Line-of-Sight Launch System (NLOS-LS) consisting of:
 - Container Launch Unit, which holds 15 missiles (maximum range out to 40 km), and a Computer and Communications System



- In the IBCT Spin Out, the Battle Command for the Non Line of Sight Launch System is the Advanced Field Artillery Tactical Data System
- Class I UAS, Block 0
- Small Unmanned Ground Vehicle, Block 1
- The Army currently plans to equip IBCTs with additional FCS Spin Out systems starting in FY13. These additional Spin Out systems include:
 - Class IV UAS
 - Multi-functional Utility/Logistics and Equipment (MULE) countermine unmanned ground vehicle
 - Armed Robotic Vehicle – Assault Light (ARV-L)

Mission

IBCT's equipped with Spin Out systems will perform all tactical operations – offensive, defensive, stability, and support – currently conducted by light infantry forces. The Army intends the Spin Out systems to enhance IBCT intelligence, surveillance, and reconnaissance, precision indirect fires, and command and control capabilities.

Prime Contractors

- Lead Systems Integrators: Boeing/SAIC
- Class I UAS: Honeywell
- NLOS-LS: Raytheon
- UGS: Textron

ARMY PROGRAMS

Activity

- In 2008, the Army redefined its approach to the Spin Out of FCS systems to current force BCTs. FCS Spin Out systems will now be fielded first IBCTs as opposed to the Heavy Brigade Combat Teams, as previously planned.
- As a result of this program refocus, the IBCT Spin Out LUT scheduled for July 2008 was rescheduled for summer 2009.
- In 2008, the FCS program executed several significant test events for Spin Out to include a Technical Field Test (TFT), a developmental test event conducted under field conditions at White Sands Missile Range, New Mexico. The TFT provided significant data to assess development of the UGS, NLOS-LS, and the Spin Out network. In addition to the TFT, the program executed a Preliminary LUT (P-LUT) in July 2008 with the Army Evaluation Task Force. The P-LUT included for the first time, the Class I UAS and the SUGV, the new additions to Spin Out systems. The P-LUT provided an early look at the redefined IBCT Spin Out.
- Detailed reports on UGS, NLOS-LS, and the Class I UAS are provided after this overview.

Assessment

- The Army's decision to shift the Spin Out focus to the IBCT's will provide an opportunity to further mature Spin

Out systems prior to the Spin Out LUT in the summer of 2009. The TFT conducted this year identified a number of deficiencies, particularly in the performance of the T-UGS and its integration into the Spin Out network, which should be able to be resolved prior to the Spin Out LUT.

- The Class I UAS Block 0 and the SUGV Block 1 both demonstrated a level of performance in the P-LUT that should enable them to be effectively integrated into the Spin Out.
- The main technical challenge to Spin Out systems will be the ability to effectively manage and integrate battlefield information and images from the UGS, Class I UAS, and the SUGV on the Spin Out network.

Recommendations

- Status of Previous Recommendations. The previous five recommendations are addressed in the detailed reports on NLOS-LS and UGS.
- FY08 Recommendations. None.