

## Land Warrior

### Executive Summary

- Land Warrior may enhance small unit tactical maneuvers and assist in shaping and controlling the tactical battlespace of Stryker Infantry companies and platoons.
- The Land Warrior Ensemble demonstrated reliability growth when supported by contract logistics personnel. This assessment is based on demonstrated performance in developmental testing, the Limited User Test (LUT), and a Force Development Test.
- The Land Warrior program completed a Force Development Test in FY06, will finish a LUT in early FY07, and will conduct a Milestone C decision later in FY07.

### System

- Land Warrior is an integrated combat fighting system used by dismounted combat Soldiers on the digitized battlefield. It includes a laser rangefinder, visual displays, integrated load carrying equipment with ballistic protection, protective clothing, a helmet, a speaker, a microphone, a computer, navigation tools, a radio, mission data support products, and a Stryker vehicle installation kit.
- The system is modular to permit tailoring for mission requirements and will interface with the M4 Carbine, M203 40 mm Grenade Launcher, and M249 Squad Automatic Weapon.
- The current Army plan is to field Land Warrior from Stryker Infantry company to fire team level.



### Mission

- Dismounted infantry units will use Land Warrior to close with the enemy by means of fire and maneuver to defeat or capture him, or to repel his assault by fire, close combat, and counter-attack.
- Land Warrior does this by:
  - Enhancing small unit leaders' situational awareness through Blue Force Tracking
  - Providing voice communications between companies, platoons, and squads
  - Enhancing collaborative mission planning

### Activity

- The Army integrated the Dismounted Battle Command System (DBCS) capability into the Land Warrior system.
- The Army conducted a Force Development Test with the 4th Stryker Brigade Combat Team at Fort Lewis, Washington, in FY06.
- OSD approved and updated the Test and Evaluation Master Plan (TEMP) to support operational testing scheduled for FY06 and FY07.
- The Land Warrior LUT was conducted from September 5 - November 10, 2006. During the LUT, a Stryker Infantry company conducted squad, platoon, and company missions.

### Assessment

- During a communications exercise, voice and text messaging were successfully transmitted over 350 Land Warrior systems and 55 Stryker vehicles. The effective communications range of the Land Warrior radio is limited to 500-700 meters in close or heavily vegetated terrain.

- The LUT plan was adequate to provide the necessary information to support a low-rate initial production decision.
- Based on observed performance during the LUT, Land Warrior may enhance small unit tactical maneuvers and assist in shaping and controlling the tactical battlespace of Stryker Infantry companies and platoons.
- During the LUT, Stryker Infantry squads were at 60 percent strength (five out of nine infantrymen). The current plan is to outfit the Land Warrior Lethality System to team leaders and above.
- Emerging test results suggests that the Land Warrior Lethality System may be more effective if a different basis of issue plan were used (e.g., to squad leaders and above) in a fully-manned squad (nine out of nine infantrymen).
- The Land Warrior Ensemble demonstrated reliability growth based on demonstrated performance in developmental testing, the LUT, and a Force Development Test. This reliability assessment is based solely on interim contractor logistics support, as contractor personnel provided all of the unit

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maintenance supply support in both the LUT and the Force Development Test.

## Recommendations

- Status of Previous Recommendations. No FY05 report was submitted for the Land Warrior program.
- FY06 Recommendations. The Army should:
  1. Find a solution to increase the range of the Land Warrior radio.
  2. Determine the Land Warrior Basis of Issue for the Lethality System. Currently, the Lethality System is distributed to fire team leaders and above. Early results from operational testing suggest that the Land Warrior Lethality System may be more effective if limited to squad leaders and above.
  3. Determine the appropriate mix of interim contractor logistics support personnel and unit maintenance personnel.