

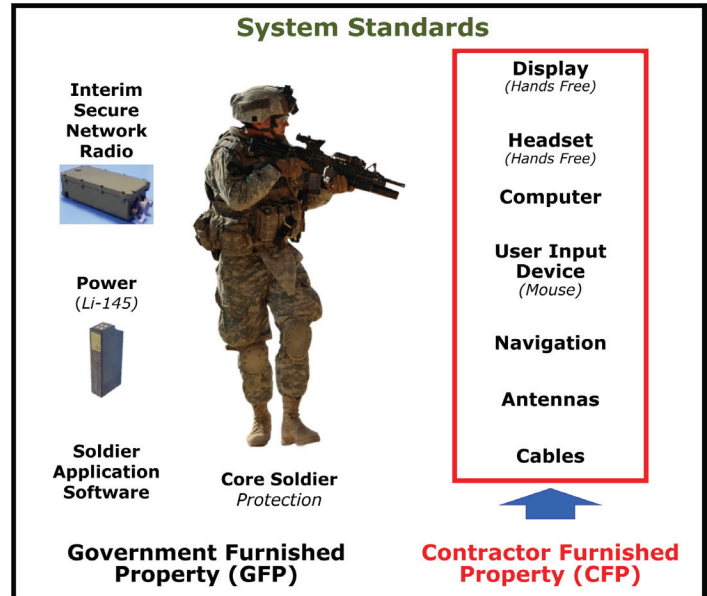
Nett Warrior Increment 1 (formerly Ground Soldier System)

Executive Summary

- In April 2009, the Army awarded three contracts for the technology development phase of Nett Warrior. In 3QFY11, the Army plans to award Nett Warrior low-rate initial production (LRIP) contracts based on the results of developmental and operational testing in 2010.
- The Army Test and Evaluation Command (ATEC) conducted developmental testing of Nett Warrior at Aberdeen Proving Grounds, Maryland, and Electronic Proving Ground, Arizona, from May through August 2010.
- A Nett Warrior Limited User Test (LUT) of three competing systems was conducted in October – November 2010 at Fort Riley, Kansas.
- A Milestone B or Milestone C decision for Nett Warrior is planned for 2QFY11.

System

- Nett Warrior Increment 1 is an integrated, dismounted Soldier situational awareness system for use by leaders during combat operations. It is designed to facilitate command, control, and sharing of battlefield information and integrate each leader into the digitized battlefield. The Army intends to use Nett Warrior to provide position location information down to the team leader level. Nett Warrior consists of:
 - A hands-free display and headset to view information
 - A computer to process information and populate the display
 - An interface device (mouse) for user-screen interaction
 - A system power source
 - A software operating system
 - A networked radio transmitter/receiver to send and receive information
 - Antennas and cables
- On the Army's birthday in June 2010, the Ground Soldier System was formally renamed the "Nett Warrior" program in honor of World War II Medal of Honor recipient, Colonel Robert Nett.
- The system includes a series of contractor-developed sub-systems or components combined with Government Furnished Property (GFP) components and software. These



components are meant to be integrated into a system with a consistent and intuitive interface for use under battlefield conditions.

- Future increments of Nett Warrior will integrate Rifleman Radio, improved batteries, and initiatives to reduce weight and space.

Mission

Infantry units will use Nett Warrior to provide increased situational awareness and enhanced communications. This will increase their ability to close with and engage the enemy to defeat or capture him, or to repel his assault by fire, close combat, and counter-attack.

Major Contractors

- General Dynamics C4 Systems – Scottsdale, Arizona
- Raytheon – Plano, Texas
- Rockwell Collins – Cedar Rapids, Iowa

Activity

- Three contractors conducted developmental testing from February to April 2010.
- ATEC conducted developmental testing of Nett Warrior at Aberdeen Proving Grounds, Maryland, from May to August 2010.

- A Nett Warrior LUT was conducted in October – November 2010 at Fort Riley, Kansas. This LUT is the first operational test of the systems. During LUT 10, three infantry companies each equipped with one system will rotate through a series

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of offensive, defensive, and stability missions in open, constricted, and urban terrain during three 96-hour scenarios.

Assessment

- During developmental tests in May – June 2010, none of the contractor-provided Nett Warrior systems met the threshold for Mean Time Between Essential Function Failure (MTBEFF) required to advance to operational testing in October.
- During additional program manager-conducted developmental testing in August 2010, all three contractors improved their reliability and proceeded to operational testing in October – November 2010.

- The results of the October – November 2010 LUT will be used to determine whether Nett Warrior meets reliability and suitability thresholds to proceed to a Milestone B or Milestone C in 2QFY11.

Recommendations

- Status of Previous Recommendations. This is the first annual report for this program.
- FY10 Recommendation.
 1. The Army should continue with scheduled developmental and operational testing to assess improvements needed for system reliability.