

Mounted Soldier System (MSS)

INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance

MISSION

Enhances the survivability, situational awareness, lethality, mobility, and sustainability for all combat vehicle crewmen and other Soldiers performing mounted operations.

DESCRIPTION

The Mounted Soldier System (MSS) is an evolutionary program with identified increments. Increment I provided the Mounted Warrior Helmet-Mounted Display and Increment II will augment current and future capabilities under the MSS Program. MSS will provide the combat vehicle crew members increased capabilities to conduct offensive and defensive operations.

The MSS consists of a heads-up display, cordless communications, micro-climatic cooling, and force protection items. These subsystems will provide

platform commanders and vehicle crew members increased effectiveness on the network-centric battlefield in areas of command and control (C2), situational awareness, communications, and force protection. MSS also provides improved integration and systems engineering to enhance capability synergy and allow crewmen to better perform their functions in the confined spaces of combat vehicles.

Cordless Communications Capabilities:

The Cordless Communications Capabilities provides increased safety and mission performance to the platform's crew with the addition of a wireless connection capability to the vehicle's intercom and radios. It allows the crew to communicate by voice over the platform's intercom system when mounted or dismounted within 300 meters of their platform. The system automatically detects when a crewman becomes disconnected from the intercom system and allows the disconnected crewman to continue to have voice communication with the crew.

Microclimate Cooling System

The Microclimate Cooling System is integrated into the platform and features a cooling vest worn by the Soldier. This will reduce crewman heat stress and provide increased comfort during operations in hot environments.

Soldier Force Protection System Capabilities:

Soldier safety is enhanced with the Improved Combat Vehicle Crewman Coverall, Flame Resistant Army Combat Uniform (FRACU), Fire Resistant Environmental Ensemble (FREE), flame-resistant and moisture-wicking undergarments, ballistic and laser eye protection, and flame-resistant hand, face, and foot protection. Soldier effectiveness is improved with the ambidextrous individual weapon holster, an integrated CVC Helmet system, and a lighter-weight, multilayer, improved ballistic protection body armor system

SYSTEM INTERDEPENDENCIES

Other Major Interdependencies

Vehicle for power and C2

PROGRAM STATUS

- **3Q-4QFY06:** DOTMLPF assessment of Mounted Warrior conducted
- **3QFY07-3QFY08:** Mounted Warrior deployed with 4th Battalion, 9th Infantry Regiment in Operation Iraqi Freedom
- **1QFY08:** Milestone B for MSS
- **2QFY09:** MSS contracts awarded

PROJECTED ACTIVITIES

- **4QFY10-3QFY11:** Developmental test, limited user test
- **4QFY11:** MSS Milestone C
- **4QFY12:** MSS full-rate production begins

ACQUISITION PHASE

Technology Development

Engineering & Manufacturing Development

Production & Deployment

Operations & Support

Mounted Soldier System (MSS)**FOREIGN MILITARY SALES**

None

CONTRACTORS

Carleton Technologies Inc.
(Orchard Park, NY)
Rockwell Collins (Carlsbad, CA)
Thales (Clarksburg, MD)
BAE Systems (Santa Clara, CA)
General Dynamics Land Systems (Sterling Heights, MI)

