



PM Medium Tactical Vehicles

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Product Manager

LTC Shane Fullmer

MISSION

ACATIC

The life cycle management of medium tactical wheeled vehicles enabling the modular, joint, expeditionary force.

Distribution Statement A: Approved for public release: Distribution is unlimited



FMTV Program Background

- ACAT IC Program
- Milestone C 1995
- As of 30 Nov 09, 43,584 trucks and 9,723 trailers have been fielded
- Contract Status:
 - Completing deliveries on 4th Production Contract (BAE) in Dec 10
 - Follow on Production Contract Awarded to Oshkosh on 26 Aug 09



FMTV Program Overview

FY09 FY₁₀ **FY11** FY12 FY13 **FY14 FY15** 2 3 2 3 4 2 3 2 3 2 3 4 2 3 4 **RESEARCH, DEVELOPMENT, TEST & EVALUATION Technology Insertion PROCUREMENT Current Production** Competitive Rebuy RFP Release **Competitive Rebuy Award** Competitive Rebuy & Follow-on Production Pilot RECAP OMA SSTS RESET





FMTV Fleet Overview





M1078
2.5 Ton LMTV Cargo



M1083 5 Ton MTV Standard Cargo



M1084 5 Ton MTV Standard Cargo w/MHE



M1086 5 Ton MTV Long Cargo w/MHE



M1087 2.5 Ton MTV Exp Van



M1088 5 Ton MTV Tractor



M1089 8.5 Ton MTV Wrecker



M1095 5 Ton MTV Trailer



M1157 10 Ton MTV Dump



LSAC



HIMARS

- 17 Truck Variants in 2 1/2 & 5 Ton Payload Class
- Expanded Application of FMTV Platform to Support Army Emerging Requirements
- HIMARS, LHS, 10-Ton Dump, MEADS
- · LVAD Variant Air Drop Certified
- 85% Commonality of Parts; 80% Commonality of Parts with MRAP Caiman
- · Companion Trailers Double Hauling Capacity

- · Unit Resupply
- Unit Mobility
- · Ammunition Resupply
- · Weapons Platform
- · Troop Transport





FMTV History/Future

1994 - 1999 1999 - 2004 2004 - 2008 2008 - 2010

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2010 - 2015

FMTV AO

- 14 variants (2.5 and 5 ton)
- Central Tire Inflation System
- 7 speed automatic transmission
- C-130 transportable
- 85% commonality of parts
- 22 year corrosion

Note: Full Rate Production decision Aug 95

FMTV A1



- Anti-lock Braking System
- Class V Interactive Electronic Technical Manual (IETM)
- ◆ 100% improved Reliability/MR
- Open systems architecture
- HIMARS

FMTV A1R



- ◆ EPA compliant
- ♠ Improved reliabilitv/MR
- Expansible Van
- ♠ Air conditioning (A/C)
- ◆ Low Velocity Air Drop/ 10 ton dump/Load Handling System
- 260 Amp alternator

FMTV A1P2



- Long Term Armoring Strategy (LTAS) Armoring Solution
- Increased Load Carrying. 19K Axle
- Enhanced A/C
- Air/Hydraulic Brake System
- B-kit armor

Future



- Suspension upgrades
- Electronic Stability Control (ESC)
- Alternate transmission/ powertrain updates
- Increased fuel economy
- Optimized maintenance ratio

Radian Armor Crew Kit (RACK)



- Adds ballistic and mine blast protection
- Bolt on over existing cab
- Incorporates environmental control system for air conditioning
- 1855 Armor Kits were applied to existing AO/A1 Variant vehicles

FMTV Armor Development

Low Signature Armored Cab (LSAC)



- Purpose built cab which replaces the standard FMTV cab
- Either fully integrated on production line or interchanged with standard cab in approx. 8 hrs.
- 3,480 LSAC Cabs were applied to existing AO/A1/A1R Variant vehicles

Long Term Armor Strategy (LTAS)



- Modular concept consisting of a standard or "A-cab" designed to accept armor referred to as a "B-kit"
- Replacing aging RACK and LSAC equipped FMTVs in Theater
- Improved Armor Protection



FMTV A1P2 (LTAS)





Long Term Armor Strategy (LTAS)

System Description

Fielding

Mission:

 To provide a vehicle configuration which is able to adapt armor based on the threat, mission or technology and provide a greater level of protection than current AoA configurations.

Characteristics:

- Factory installed, armor capable cabs, which include A/C, provide the structure for soldier-installed armor kits. Major vehicle performance characteristics are not degraded with armor kits installed.
- The A-Cab armor kit concept allows for future armor upgrades to advanced light weight materials (ie, ceramics, composites, etc.).
- Requirement: 1996 TWV Crew Protection Kit (CPK) ORD, CARDS Reference Number 16060, approved by HQDA G3

Design & Test Phase: 21 Cargo & Variant Vehicles – Complete

3 Remaining Variants - On-going

Vehicles Fielded: 522 (30 Nov 09) No. on contract: 15,347

Distribution:

Active Guard & Reserve Units – CONUS &

OCONUS



Schedule

Kev Milestones

LTAS FOT complete	Nov 07	
LTAS PVT complete	Dec 07	
Ballistic testing complete	Dec 07	
• SER	Apr 08	
Safety Confirmation	Apr 08	
 First I TAS vehicle delivered to Gov't 	Mar 09	

Initial fielding to Ft. Polk
 Complete all Variant testing
 Apr 10

Mar 09

Performance/Risk

Risk:

- Delay in variant deliveries for test cause production to start prior to test completion; BAE difficulty in cutting in test changes.
- Logistics products in support of fielding

Risk	Performance	Schedule	Cost
Risk Level	Low	Med/High	Low

Commence LTAS Variants testing





Summary

- 17 FMTV Variants (2.5 & 5 ton payload class)
- Companion trailers capable of doubling payload.
- Current Challenges
 - LTAS Production
 - Increase in Armor Protection
 - Weight Reduction
 - Resolve Contracting Issues
- Future Challenges
 - RESET/RECAP of TPE trucks and trailers
 - Suspension Mods
 - Increased Fuel Economy
 - Embedded Vehicular diagnostics (CBM)