



PM Medium Tactical Vehicles



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MISSION

ACAT IC

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

Distribution A: Approved for Public Release; distribution unlimited



FMTV Program Background

- ***ACAT IC Program***
- ***Milestone C – 1995***
- ***As of 31 Dec 08, 36,660 trucks and 7,317 trailers have been fielded***
- ***Contract Status:***
 - ***Completing deliveries on 3rd Production Contract (A1R) in May 09***
 - ***Awarded a Production Contract in May 08 for A1P2; definitized and awarded options in Sep 08***
 - ***Planning a Competitive Production Contract for award in May 09***



FMTV Fleet Overview

LMTV Cargo



MTV Cargo



MTV Cargo w/MHE



MTV Tractor



LTAS



LSAC



HIMARS



MTV Wrecker



MTV Dump



MTV Expandible Van



Trailer



MTV LHS








- 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 Calman
- 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	2010 - 2015
FMTV A0  <ul style="list-style-type: none"> 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 	FMTV A1  <ul style="list-style-type: none"> Anti-lock Braking System Class V Interactive Electronic Technical Manual (IETM) 100% improved Reliability/MR Open systems architecture HIMARS 	FMTV A1 R  <ul style="list-style-type: none"> EPA compliant Improved reliability/MR Expansible Van Air conditioning (A/C) Low Velocity Air Drop/ 10 ton dump/Load Handling System 260 Amp alternator 	FMTV A1P2  <ul style="list-style-type: none"> Long Term Armoring Strategy (LTAS) Armoring Solution Increased Load Carrying, 19K Axle Enhanced A/C Air/Hydraulic Brake System B-kit armor 	Future  <ul style="list-style-type: none"> Suspension upgrades Electronic Stability Control (ESC) Alternate transmission/powertrain updates Increased fuel economy Optimized maintenance ratio

GWOT SUPPORT

FMTV Armor Development

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

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.
- 2200 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 Program Overview

FY09				FY10				FY11				FY12				FY13				FY14				FY15							
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	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 A1P2 (LTAS)



*Power Train:
Caterpillar 330 hp C7
Engine
Allison Gen IV
Automatic
Transmission*

*Objective Gunner Protection
Kit (OGPK) with M1114
Weapon Station*

*Compatible with full
C4ISR Electronics
Suite*

5.0 Ton Payload

*B-Kit (Armor)
Installed*

Rear-Hinged Doors

*First Responder
Tool Compatible*

*Heavy-Duty Cab Tilt
and Leveling
System*

*Frame C-Channel
Reinforcements*

*Blow Away
Fenders*

*Heavy Duty Axle
with Air/Hydraulic
Brake System*



Long Term Armor Strategy (LTAS)

System Description

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. Vehicle performance characteristics are not degraded w/o armor kits installed
- The field-installed armor kit concept allows for future armor upgrades to advanced light weight material (ie, ceramics, composites, etc.)
- Requirement: 1996 TWV Crew Protection Kit (CPK) ORD, CARDS Reference Number 16060, approved by HQDA G3

Fielding

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Design & Test Phase: 13 vehicles

Vehicles Fielded: None.

Distribution subject to Distribution Conference week of 12 Jan



Schedule

- | | | |
|---|--------|---|
| • LTAS FOT complete | Nov 07 | ✓ |
| • LTAS PVT complete | Dec 07 | ✓ |
| • Ballistic testing complete | Dec 07 | ✓ |
| • SER | Apr 08 | ✓ |
| • Safety Confirmation | Apr 08 | ✓ |
| • S023 LTAS A-cab mod award | Mar 08 | ✓ |
| • S023 LTAS B-kit mod award | May 08 | ✓ |
| • First LTAS vehicle delivered to Gov't | Feb 09 | |
| • LTAS Variants testing | Feb 09 | |

Performance/Risk

Risks:

- C-130/CH-47 Transportability resolution
- Delay in variant deliveries for test cause production to start prior to test completion
- Logistics products in support of fielding
- B-kit schedule – Initial LTAS cargo trucks will be A-cab for Data Interchange Customers; initial Bridge trucks to be A-cab
- Ongoing DA CONOPS/fielding strategy

Risk	Performance	Schedule	Cost
Risk Level	Low/Med	Med/High	Low



Summary

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- ***17 FMTV Variants (2.5 & 5 ton payload class)***
- ***Companion trailers capable of doubling payload.***
- ***Current Challenges***
 - *LTAS Production*
 - *Increase in Armor Protection, impacts air mobility*
 - *Weight Reduction*
- ***Future Challenges***
 - *RESET/RECAP of TPE trucks and trailers*
 - *Suspension Mods; Electronic Stability Control (ESC)*
 - *Increased Fuel Economy*
 - *Embedded Vehicular diagnostics (CBM)*