



SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

Accelerating SOF Innovation

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FAMILY SPECIAL OPERATIONS VEHICLES





Vehicle Lifecycle Overview

Vehicles in Concept



**Joint Light Tactical Vehicle (JLTV)
SOF Mods**



**Purpose Built
Non-Standard Commercial Vehicle**



**Joint Armored
Ground Mobility System (JAGMS)**

Vehicles In Production



**Ground Mobility Vehicle 1.1
(GMV 1.1)**



Non-Standard Commercial Vehicle



**Light Tactical All Terrain
Vehicle- Diesel**

Vehicles in Sustainment



GMV 1.0



MRAP-ATV (M-ATV)

Vehicles in Sustainment



MRAP - RG33 A1



MRAP - RG33 AUV





Lightweight Tactical All Terrain Vehicle (LTATV)



- The LTATV is a SOF modified commercial off the shelf (COTS) lightweight vehicle that is internally air transportable via V-22, H-53 and H-47 aircraft. It consists of two and four seat variants with the ability to change configuration based upon mission and/or threat. It's intended to perform a variety of missions to include offset infiltration, reconnaissance and medical evacuation.
- Areas of Interest:
 - Hybrid/Electric
 - Autonomous Capabilities
 - Increased Payload
 - Lifecycle Improvement
 - Modular Kit Capabilities (weapons, tracks, etc.)



ACQUISITION STRATEGY

- Non Developmental Item (NDI)
- Follow-On Contract: Full & Open Competition

PERIOD OF PERFORMANCE

- Sustainment ongoing
- Follow-On Contract: FY20 – TBD

MILESTONES

- Pure Fleet Diesel Variant: 4QFY18

POINT OF CONTACT

- USSOCOM SOF AT&L, Technology & Industry Liaison Office (TILO) (813) 826-9482

FUNDING

- ~\$6.5M/year

CURRENT CONTRACT/OEM

- Polaris Defense (Medina, MN)
- 5 Year IDIQ: July 2015 – July 2020



Non Standard Commercial Vehicle (NSCV)

- The current NSCV is based on commercial vehicle platforms that are enhanced with mission-specific modifications to increase protection, mobility performance, and durability.
- Areas of Interest:
 - Lightweight Armor Materials
 - Lightweight Vehicle Components/Mods
 - C4ISR Integration Cost Reductions
 - Suspension Technology
 - Lifecycle Improvement



ACQUISITION STRATEGY

- NSCV2: Full & Open Competition
- P-Built: Competitive OTA for Prototype (NAMC Consortium), w/ Follow-on Production

PERIOD OF PERFORMANCE

- Sustainment Ongoing
- Purpose Built NSCV: FY20 Prototype OTA Award

MILESTONES

- NSCV1 Production End: July 18
- NSCV2 IOT&E: March 18
- NSCV2 PQT Completion: 3QFY19

POINT OF CONTACT

- USSOCOM SOF AT&L, Technology & Industry Liaison Office (TILO) (813) 826-9482

FUNDING

- ~\$35M/year (average)

CURRENT CONTRACT/OEM

- Battelle Memorial Institute (Columbus, OH)
- 7 Year IDIQ: July 2016 – July 2023



Ground Mobility Vehicle 1.1 (GMV 1.1)

- The GMV 1.1 is a highly mobile CH-47 internally transportable Special Operations combat vehicle with the operational flexibility to support a wide range of lethal and non-lethal Special Operations missions and core activities.
- Areas of Interest:
 - Lightweight Armor Materials
 - Hybrid/Electric Powertrain
 - Vehicle Weight Reduction
 - Terrain Specific Tire Alternatives
 - C4ISR Integration Cost Reductions



ACQUISITION STRATEGY

- Full and Open Competition
- Single Vendor Award
- Produce & Evaluate Test Vehicles
- Full-Rate Production Decision

PERIOD OF PERFORMANCE

- PoP: Aug 13 - Aug 20
- 5 Years Production

MILESTONES

- IOT&E: November 2015
- First Unit Equipped: April 2016
- Full Rate Production Decision: March 17
- Initial Operational Capability: September 2020

POINT OF CONTACT

- USSOCOM SOF AT&L, Technology & Industry Liaison Office (TILO) (813) 826-9482

FUNDING

- FY20 is last year of investment funding
- \$16M/yr sustainment funding through FYDP

CURRENT CONTRACT/OEM

- General Dynamics Ordnance and Tactical Systems (St. Petersburg, FL)
- 7 Year IDIQ: August 2013 – August 2020



Mine Resistant Ambush Protected Vehicle (MRAP/M-ATV)



- The Mine Resistant Ambush Protected (MRAP) family of vehicles currently consists primarily of the MRAP All Terrain Vehicle (M-ATV), and RG-33-A1. Vehicles are modified to meet SOF unique requirements.
- Areas of Interest:
 - Active Reset Operations
 - Obsolescence Management
 - Sustainment Cost Reductions
 - C4ISR Integration Cost Reductions



ACQUISITION STRATEGY

- Original Production (JPO MRAP Contracts)

PERIOD OF PERFORMANCE

- Sustainment ongoing
- Reset kicked off in FY19

MILESTONES

- Post Milestone C
- Sustainment/Disposal Phase

POINT OF CONTACT

- USSOCOM SOF AT&L, Technology & Industry Liaison Office (TILO) (813) 826-9482

FUNDING

- ~\$88M/year

CURRENT CONTRACT/OEM

- No Active OEM Production Contracts
- FSR Support: Mantech / Lockheed Martin



Ground Mobility Vehicle 1.0 (GMV 1.0)

- The Ground Mobility Vehicle 1.0 (GMV 1.0) is a medium class High Mobility Multipurpose Wheeled Vehicle (HMMWV) with Special Operations - Peculiar (SO-P) modifications. Several variants have supported Special Operations Operators reliably for over 12 years in contingency and combat operations.
- Areas of Interest:
 - Active Reset Operations
 - Lightweight Armor Materials
 - Suspension & Payload Improvements



ACQUISITION STRATEGY

- Modified Service Common (MFP-2)

PERIOD OF PERFORMANCE

- Sustainment / Divestiture
- Reset as necessary

MILESTONES

- Production ended in FY06
- Vehicle Reset has been continuous since FY09

POINT OF CONTACT

- USSOCOM SOF AT&L, Technology & Industry Liaison Office (TILO) (813) 826-9482

FUNDING

- \$2M for FY 19 reset
- Annual Prioritization Process for Reset
- Continue sustainment through OCO

CURRENT CONTRACT/OEM

- No Active OEM Contracts
- Reset: Letterkenney Army Depot (LEAD)



Joint Light Tactical Vehicle (JLTV)

- Joint Program Office (JPO) – USA/USMC
- To be fielded to SOF Units by Services
- The JLTV's intent is to restore light tactical mobility to combat arms, combat support and combat service support/sustainment of forces by providing: protection (scalable armor); transportability (rotary/fixed wing, expeditionary sealift); mobility (off road, urban areas, all weather); sustainment (reliability, maintainability, onboard and exportable power) and Networking (integrated C4)

Targeting limited SOF modifications (C4/ECMS)



ACQUISITION STRATEGY

- Modified Service Common (P-2)
- SOF Mod Requirements Generation ongoing

PERIOD OF PERFORMANCE

- FY20 & beyond

MILESTONES

- SOF Operational Assessment – 4QFY19-1QFY20
- SOF Mod Design/Testing – FY20

POINT OF CONTACT

- TILO (tilo@socom.mil)

FUNDING

- TBD (awaiting OP Assessment)

CURRENT CONTRACT/OEM

- Oshkosh Corporation (JPO)
- No Active SOCOM Contracts



Joint Armored Ground Mobility System (JAGMS)

- The JAGMS is a rapidly-deployable armored personnel carrier, providing heavy weapons capability, ballistic protection, and increased transportability options for SOF.
- Key Requirements (anticipated):
 - Blast & Ballistic Protection
 - Seating for 9-10 passengers
 - C-130 Transportable
 - 4,500+lb Payload Capacity
 - Increased Situational Awareness
 - Heavy Weapons Capability (RWS)



<p style="text-align: center;">ACQUISITION STRATEGY</p> <ul style="list-style-type: none"> • TBD (Market Research) 	<p style="text-align: center;">PERIOD OF PERFORMANCE</p> <ul style="list-style-type: none"> • FY22/23 kickoff (estimated) • FY23/24 Testing/Validation 	<p style="text-align: center;">MILESTONES</p> <ul style="list-style-type: none"> • Requirements Generation & Market Research – FY19/20 • New Fielding – FY24/25
<p style="text-align: center;">POINT OF CONTACT</p> <ul style="list-style-type: none"> • TILO (tilo@socom.mil) 	<p style="text-align: center;">FUNDING</p> <ul style="list-style-type: none"> • TBD 	<p style="text-align: center;">CURRENT CONTRACT/OEM</p> <ul style="list-style-type: none"> • No Active Contracts



PM FOSOV Technology Insertion Recap of Opportunities



Active Production

- NSCV
- GMV 1.1
- LTATV

Active Sustainment

- LTATV (Lifecycle Replacement every 3-4 yrs)
- M-ATV
- GMV 1.0 (SOF HMMWV)

Vehicles in Concept

- Purpose Built NSCV
- JAGMS

- **Lightweight Armor for Ground Mobility Platforms**
 - Current armor solutions are heavy, limit available payload options and decrease vehicle durability.
 - Lightweight and cost effective technologies that can replace current armor solutions.
- **Lightweight Vehicle Components/Mods**
- **Low SWAP / High Output Alternators**
- **Hybrid/Electric Vehicle Capabilities**
- **Alternative Fuel Sources**
- **Autonomous / Semi-Autonomous Vehicle Capabilities**
- **Semi-Active Suspension Capabilities**
- **Advanced Situational Awareness (M-ATV/AGMS) – Battlefield Awareness**
- **Telepresence for remote vehicle operation and/or Situational Awareness (SA)**
- **Augmented Reality Maintenance Capabilities**



The Iron Triangle



Questions?

