Special Operations Forces Industry Conference

Mr. Michael Ellis
Deputy Program Manager
Family of Special Operations Vehicles (FSOV)

Ground Combatant Systems – Mobility
PM FOSOV Mission

Develop, procure and sustain wheeled mobility capabilities for specific missions when Service solutions do not meet SOF requirements.

3,000 SOF Modified and SOF Specific vehicles
Complex and uncertain environments. Need platforms that will provide a flexible, transportable, lethal, protected, sustainable, and networked capability.
FOSOV Portfolio

- 640 + modified-Commercial Off-the-Shelf All-Terrain Vehicles
- 360 + modified-Commercial Off-the-Shelf Light Tactical All Terrain Vehicles
- 1,097 + Special Operations Modified Ground Mobility Vehicles (HMMWV-based)
- 1,100 + Heavy Vehicles (MRAP & M-ATV)
- 165 + Non-Standard Commercial Vehicles
## FOSOV Road Map

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<td>Sustain</td>
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### Legend
- Light Green: Procurement Funded
- Medium Blue: O&M Funded
Acquisition Philosophy

• Maximize utilization of Service Common material solution
  – Fully integrated in the requirements/development process

• Integration at the System Level for Operational Capability
  – Plug and play C4I
  – Weapons integration
  – Ballistic/Blast protection upgrades
  – Modularity, flexibility of modification, speed of delivery for mission

• Build SOF Specific material solution
  – Procure and sustain when above two options are unavailable
  – Limited resources
  – Focused on SOF-specific missions
All Terrain Vehicles

- Replace aging ATV fleet with “off-the-shelf” vehicles
- Projected annual procurement quantity of 245 ATVs until the Full Operational Capability (FOC) of 1,183 vehicles is attained.

**Acquisition Strategy**
- Full and Open Competition
- Pre-award Field Evaluation
- IDIQ Contract

**Period of Performance**
- 5 Years (1 base w/ 4 option years)

**Milestones**
- RFP Release: Aug 11
- Contract Award (Test Vehicles): Oct 11
- Field Evaluation: Oct-Nov 11
- Contract Award: Dec 11

**Funding**
- $6M per year (estimate)

**Current Contract/OEM**
- Polaris: MV-700

**Point of Contact**
- PM FOSOV
# ATV Requirements

<table>
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<tr>
<th>Attribute</th>
<th>Threshold</th>
<th>Objective</th>
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<tr>
<td>Range</td>
<td>75 miles at GVWR</td>
<td>150 miles at GVWR</td>
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<tr>
<td>Controls</td>
<td>Motorcycle Handlebar</td>
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<td>Acceleration</td>
<td>0-30 mph in 7 sec at GVWR</td>
<td>0-45 mph in 7 sec at GVWR</td>
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<td>Transportability</td>
<td>Internal (CV-22 &amp; MH-47)</td>
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<td>Air-droppable</td>
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<td>Integral Tie Downs</td>
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<td>Mobility</td>
<td>4x4 Drive System</td>
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<tr>
<td>Environment</td>
<td>All geography</td>
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<td>10K feet altitude &amp;</td>
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<td>-25°F to +130°F Temp Range</td>
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<td>Performance</td>
<td>At GVWR (hard surface)</td>
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<td></td>
<td>• Maintain 45 mph</td>
<td>2,000 mile MMBOMF</td>
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<td>• Maintain 40 mph on 5% grade</td>
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<tr>
<td>Payload</td>
<td>450 lbs</td>
<td>900 lbs</td>
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<td>Curb Weight</td>
<td>900 lbs</td>
<td>700 lbs</td>
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Ground Mobility Vehicle (GMV 1.1)

- Multiple IDIQ contract awards for test quantities prior to a full-rate production decision.
- Projected full-rate procurement quantity of ~200 vehicles per year.

Acquisition Strategy
- Full and Open Competition
- IDIQ Contract
- Multiple Awards for Test Vehicles
- Full-Rate Production “Down Select”

Period of Performance
- 5 Years (1 base w/ 4 option years)

Milestones
- RFP Release: Sep 11
- Test Qty Production Award: Apr 12
- Field Evaluation: Jan 13
- Full Rate Production Award: Jan 14

Funding
- $375M (estimate)

Current Contract/OEM
- None

Point of Contact
- PM FOSOV
GMV1.1 Requirements

• Protection
  – Modular, lightweight armor solutions
  – Signature management in a variety of environments

• Design / Ergonomics
  – Embark/debark a MH-47 with primary weapons ready to fire in less than 60 seconds
  – Capacity for 3 primary passengers (driver, gunner & vehicle commander) and provisions for 2 secondary passengers
  – 360-degree crew visibility while minimizing dead space
  – Safe and comfortable seat design
  – Primary weapons station can continuously traverse 360 degrees

• C4I Capacity
  – Modular architecture
  – Enhanced navigation software with Identification Friend or Foe (IFF) and Command & Control (C2) Functions
  – Consolidated Communications System
GMV1.1 Requirements (continued)

• Mobility
  – Transportable internally via MH-47 (10K lbs; including 2,126 lb of equipment)
  – Carries a 4,139 lbs combat payload (3 personnel with equipment and supplies)
  – Operational profile:
    • 70% on secondary roads and trails
    • 30% primary roads
  – All-wheel drive and capable of negotiating an 18-inch vertical step
  – Minimum 250-mile range using internal fuel tanks that are no more than 75% full
  – Sustain 70 mph over improved roads

• Desirable future technologies
  – Multi-fuel capability
  – Simulators to save in training costs
  – Next-generation, enhanced situational awareness tools

• Sustainment
  – Modular maintenance/parts
  – Maintainable by operators in austere environments with minimal assistance
Non-Standard Commercial Vehicles

- Provide SOF operators with covert mobility by acquiring commercial vehicles that are representative of indigenous operating environments and modified to meet SOF-unique requirements.
- Estimated contract ceiling of $200M for a total of ~750 vehicles.

**Acquisition Strategy**
- Full and Open Competition
- IDIQ Contract

**Period of Performance**
- 5 Years (1 base w/ 4 option years)

**Milestones**
- RFP Release: Dec 11
- Contract Award: Apr 12

**Point of Contact**
- PM FOSOV

**Funding**
- $21M per year (estimate)

**Current Contract/OEM**
- Various
NSCV Requirements

Commercial vehicles that include some combination of the following SOF modifications:

- Armor
- C4ISR wiring, mounts and antennas
- Roof Rack
- Run Flat Tires
- Winch
- Additional power outlets
- Upgraded Suspension
- Heavy duty brakes
Questions

PM FOSOV: Enabling Users to Meet Their Objectives and Return Home Safely