

JOINT LIGHT TACTICAL VEHICLE



The three JLTV contenders selected for the Engineering and Manufacturing Development (EMD) phase of the JLTV Competition (from left to right, AM General, Oshkosh Defense, Lockheed Martin).

Program Background

The Joint Light Tactical Vehicle (JLTV) is a major Army-Marine Corps defense acquisition program that addresses a new generation tactical wheeled vehicle to replace a portion of the Services' HMMWV fleet. The program's aim is to develop a new multi-mission light tactical vehicle family with superior crew protection and performance compared to current HMMWVs. The JLTV family will balance critical weight and transportability constraints against performance, protection, and payload requirements while ensuring an affordable solution for the Army and USMC.

The development of the JLTV reinforces the Services' approach to interoperable platforms that provide expeditionary and protected maneuver capabilities to forces that are currently supported by HMMWVs. The JLTV will also improve payload efficiency through

state-of-the-art chassis engineering, enabling the vehicles to be deployed with the appropriate level of force protection through the use of scalable armor solutions. Expected JLTV fleet reliability and fuel efficiency targets will be significantly greater than the current HMMWV fleet, providing millions of dollars in savings over the JLTV life cycle.

The Marine Corps intends to acquire 5,500 JLTVs with Full Operational Capability by the end of FY22.

Program Status

The JLTV program is currently in the Engineering and Manufacturing Development (EMD) phase. On August 22, 2012, PM JLTV awarded three EMD awards to AM General LLC, Lockheed Martin Corporation, and Oshkosh Corporation. Each of these EMD vendors delivered 22 full-up prototypes on or ahead of time and they are currently engaged

in a comprehensive 14-month Government test program, including blast, automotive, and reliability testing, which will be followed by a limited user test. The program is on schedule for a Milestone C, and an eight-year Low-Rate Initial Production/Full Rate Production contract is planned to be awarded in late FY15.

JLTV's Top Technical Issues:

1. Weight/Armor

The JLTV design must meet competing requirements for a balanced solution of protection, payload, and performance. Although the JLTV armor system can meet the functional requirements, it will continue to require improvement in weight to accommodate future integration programs. Therefore, add-on armor solutions that can reduce vehicle weight but still meet the force protection requirements are critical to the success of the JLTV program. Lower weight, affordable, and transparent armor and EFP kit solutions are also needed. Because of stringent affordability constraints on the program, the armor solution must be in the price range of current JLTV armor solutions.

2. Corrosion Resistance

The JLTV will be stored and maintained for long durations in pre-positioned stocks ashore and at sea, in outdoor motor pools, and in other areas where it will be exposed to salt air, rain, snow, heat, cold, and other corrosive environments that must be mitigated. Corrosion-resistant technologies will reduce total ownership costs and provide a significant increase in equipment readiness.

3. JLTV-Close Combat Weapons Carrier (CCWC) Missile Reloading Design

The JLTV-CCWC is the mission package configuration for employment of the TOW/SABER. During the course of the JLTV EMD phase, the

warfighter operational requirements for the TOW/SABER system are evolving and, as a result of the current EMD phase designs for JLTV TOW integration, the requirement for the TOW/SABER system integration may become obsolete. A design effort to integrate TOW/ITAS components and capabilities on a CCWC is needed (independent of the vendors competing for the low-rate initial production (LRIP) contract) as a risk reduction initiative in the event that the design proposed by the vendor selected for LRIP does not satisfy the revised operational requirements. The required system design includes a securable rear cargo box capable of accommodating TOW/SABER weapon system components, missiles, and loading/reloading capabilities in accordance with the JLTV system specifications and the TOW system Initial Capabilities Document for JLTV.

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JLTV

ACAT I D / EMD

MSC = May 15 (O)/ Nov 15 (T) **AAO** = 5500
IOC = May 18 (O)/Nov 18 (T)

Description: JLTV focuses on procuring a family of light tactical vehicles for combat mission roles, providing increased survivability, mobility, payload and reliability over the current family of HMMWVs. JLTVs will provide a high level of scalable protection, improved sustainment and net-ready maneuver platforms which are tactically mobile across all terrain.

<p>Mobility</p> <p>Transportability</p> <p>Force Protection</p> <p>Survivability</p> <p>Payload</p> <p>Sustainment</p> <p>Net Ready</p> <p>Training</p>		<p>Contracts Data</p> <p>Fixed Price</p> <p>Contractors AMG, OSH, LM</p> <p>Start – Complete Aug 12 – Nov 14</p> <p>Next Contract: LRIP = Jul 15</p> <p>DCMA = G</p> <p>CPI = NA SPI = NA</p> <p>EAC = NA</p> <p>Issues:</p>	<p>Joint Light Tactical Vehicle 82.31/100</p> <p>Legend: ◊ Preliminary Summary ◻ Critical Chain</p> <p>DRAFT Last Modified October 21, 2014</p>
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SETR Reviews	MIRA	FBR	PBR	ABR	I PCA	F PCA	MIRA
Test Events	Perf Test	SVR/PRR	LUT	RAM	RQT/PQT	FUSL	MOT&E
Contract Events	RFP	LRIP Award	FRP	LRIP Award	FRP		
Qty's	0	15 (8 R&D)	102 (9R&D)	273	1163 (1 R&D)	1325	1467

*Based on estimated and calculated values
 N – no capability T – Threshold O – Objective



JLTV Technical Issue #3 JLTV-CCWC Missile Reloading Design

