

Javelin Antitank Missile System – Medium



The Javelin Antitank Missile System – Medium is undergoing two independent, but complementary upgrades, referred to as the G-model missile and the Lightweight Command Launch Unit (LW CLU). From July to August 2025, the Army conducted a cyber adversarial assessment on the LW CLU. DOT&E will publish an addendum to the classified FOT&E report in 2QFY26, once data analysis is complete. The G-model missile experienced developmental delays due to a flight test failure in FY22, was re-baselined in FY23, and will continue verification of corrective actions into FY26.

SYSTEM DESCRIPTION

The Javelin Antitank Missile System – Medium is a man-portable, shoulder-launched, fire-and-forget weapon system used to defeat threat armored vehicles out to 2,500 meters. The Javelin system consists of a missile in a

disposable launch tube assembly (LTA) and a reusable CLU. The CLU mechanically engages the LTA for shoulder firing, has day and night sights for surveillance and target acquisition, and electronically interfaces with the missile for target lock-on and missile launch.

The Javelin system is undergoing two independent, but

complementary upgrades intended to control unit cost, reduce size and weight, and address component obsolescence while meeting or exceeding the current F-model missile and Block 1 CLU performance. These system improvements are referred to as the G-model missile and LW CLU. The G-model missile effort is developing a new LTA,

electronic battery unit, guidance electronics unit, and missile seeker. Production missiles will be designated FGM-148G. The LW CLU effort incorporates modern daylight and infrared camera technology in a smaller and lighter form factor. The LW CLU is backward compatible with the current inventory of missile models, and the G-model missile will be backward compatible with the legacy Block 1 CLU.

The Army is developing a new Basic Skills Trainer and the Javelin Force-on-Force (FoF) Tactical Trainer (JTT) that will be compatible with the upgraded Javelin system.

MISSION

Commanders use Army and Marine Corps ground maneuver units equipped with the Javelin to destroy, capture, or repel enemy assault through maneuver and firepower. Soldiers and marines use the Javelin to destroy threat armor targets and light-skinned vehicles, and to incapacitate or kill threat personnel within fortified positions or in the open.

PROGRAM

Javelin is an Acquisition Category IC program. The Army is upgrading the Javelin weapon system and associated training equipment through multiple engineering change proposals occurring in separate LW CLU and G-model missile development efforts. In March 2024, DOT&E published a Javelin Antitank Missile System – Medium FOT&E report with a classified annex, informing a LW CLU production

decision in October 2024. Urgent fielding of the LW CLU is expected to begin in 2QFY26.

The G-model missile experienced developmental delays due to a flight test failure in FY22. The program was re-baselined in FY23, and analysis of the flight test failure is still ongoing. The G-model missile will continue development and testing over the next four years and begin production upon the completion of a successful government-led qualification flight test series.

DOT&E approved an updated TEMP for the Javelin program in April 2020 and a LW CLU-specific TEMP addendum in February 2023. An update to the Javelin TEMP is necessary to reflect the significant delays in the G-model missile development. The updated TEMP should include a T&E concept for combined LW CLU and G-model missile testing as well as demonstrating the maximum effective range of the upgraded Javelin, as first recommended in the FY22 Annual Report.

» MAJOR CONTRACTORS

- Raytheon, a subsidiary of RTX – Tucson, Arizona
- Lockheed Martin Corporation – Orlando, Florida

TEST ADEQUACY

From July to August 2025, the Army conducted a cyber adversarial assessment on the LW CLU, in accordance with the DOT&E-approved test plan. DOT&E will publish an addendum to the classified FOT&E report with a cyber survivability assessment in

1QFY26, once data analysis is complete.

As discussed in the FY24 Annual Report, the Javelin Program Office identified the root cause of a software fault and developed LW CLU software update 4.1 and 4.1.1 to address the issue. The software updates have not yet undergone integrated testing with soldier operators. This should be completed prior to equipping the first unit with the LW CLU.

PERFORMANCE

» EFFECTIVENESS, LETHALITY, SUITABILITY, AND SURVIVABILITY

DOT&E has no changes to the assessments in the FY24 Annual Report. DOT&E will publish an addendum to the classified FOT&E report in 1QFY26 to assess cyber survivability, once adversarial assessment data analysis is complete.

RECOMMENDATIONS

The Army should:

1. Conduct integrated testing of LW CLU software updates 4.1 and 4.1.1 with soldier operators prior to equipping the first unit.
2. Update the Javelin TEMP to reflect delays in the G-model missile development and plan for combined G-model missile and LW CLU testing, as well as demonstrating the maximum effective range of the upgraded Javelin system,

as recommended in the FY23 and FY24 Annual Reports.

3. Investigate a long-term replacement strategy for the existing LW CLU battery to improve cold weather performance, as recommended in the FY23 and FY24 Annual Reports.
4. Develop the JTT to allow soldiers to conduct FoF exercises to support unit readiness.