Lockheed Martin Demonstrates Rapid Software-Driven Integration For Command And Control At Valiant Shield 2026

Showcasing first-of-its-kind capabilities, the company delivered integration at an unprecedented scale across multiple mission sets

HONOLULU — July 8, 2026 Lockheed Martin (NYSE: LMT) demonstratedCommand and Control (C2) and battle management for converged fires, Integrated Air and Missile Defense (IAMD) and long-range targeting in support of U.S. and coalition forces at exercise Valiant Shield 2026 (VS26). Collectively, the demonstrations showcased Lockheed Martin's software-driven agility and expertise, through unifying a wide array of sensors, weapons and C2 systems across multiple operational domains enabling faster, more coordinated decision making for operators.

"These demonstrations highlight the power of integration to create operational advantage," said Joe DePietro, Mission Integration Command and Control vice president and general manager at Lockheed Martin. "Our battle management systems and multi-domain expertise are already being applied in real-world operations, providing a strong foundation for innovation. When we combine that operational experience with modern software and digital technologies, we can move faster from innovation to mission impact."

Guam Defense System Battle Manager Demonstration

- **Agile IAMD Battle Management:** Lockheed Martin's Battle Management application, powered by CommandIQ®, provided operators with prioritized recommendations that help ensure the right threats are engaged at the right time with the best response options to defend critical assets. The application is tailored to rapidly integrate new software and align with warfighter pre-planned responses and can be modified in real time to adapt to dynamic battlefield conditions.
- **Common Tactical Picture:** The system integrated live and simulated data from multiple joint IAMD systems participating in VS26, to include Command, Control, Battle Management, and Communications system (C2BMC), Aegis Guam System, Terminal High Altitude Area Defense (THAAD), Integrated Battle Command System (IBCS), and Air Base Air Defense System Missile Defense (ABADS MD). This provided the regional air defense commander a common tactical picture of the battlespace to enable effective decisions.
- **Optimized Decision Making:** The system displayed planned engagements from all participating IAMD systems and leveraged artificial intelligence to evaluate engagement options and provide real time, recommendations to maximize effectiveness of each system and preserve munitions capacity. After review by the operator, the application then digitally directed the appropriate tactical weapon system to carry out its engagement while coordinating with the others to maintain engagement readiness throughout the operation.

Being able to provide these recommendations for ballistic, hypersonic and air defense engagements across the Joint IAMD forces in VS26 is a first of its kind capability.

Long-Range Targeting for Engagement Commercial Track Custody Demonstration

- **Flexible Commercial Integration:** Lockheed Martin demonstrated how commercial sensor data and processing can be rapidly integrated into operational workflows to expand awareness and accelerate targeting timelines and decisions.
- **Speed to Capability:** In collaboration with HawkEye 360 (HE360), the Lockheed Martin system integrated HE360's capabilities to generate unclassified tracks from commercial sensor data and distributed it across the joint force.
- **On-Demand Track Custody:** This represented one of the first efforts to leverage unclassified, commercial, edge-based Processing, Exploitation, and Dissemination (PED) and track custody capabilities to deliver on-demand signals intelligence (SIGINT) to maintain continuous awareness, confidence, and correlation of a target track across multiple sensors and systems.

Live TrackEx with Aegis Guam and TPY-6

- **Expeditionary Readiness:** VS26 highlighted these proven capabilities in an expeditionary configuration, pairing the AN/TPY-6 with the Aegis Guam system and Vertical Launching System for simulated Guam-defense engagements. The success from the demo marks another milestone as the program advances toward early operational capability.
- **State of the Art Radar Tracking:** The AN/TPY-6 radar is the world's most advanced IAMD radar and is capable of detecting, tracking, and classifying all potential Air and Missile threats. TPY-6 is derived from Lockheed Martin's Scalable, Supportable, Software Defined S-Band Radar (S4R) production line and provides persistent operations even in the presence of threat jamming. The AN/TPY-6 deployed to Guam continues to demonstrate high technical maturity as software development continues.
- **Proven Weapon System Integration:** During VS26, the AN/TPY-6 radar, fully integrated with the Aegis Weapon System, proved the ability to detect, track and engage advanced hypersonic threats by rapidly categorizing air and missile track data demonstrated on Guam. Its multi-mission capability computes engagements against ballistic, hypersonic, or cruise threats, selects the optimal interceptor from the inventory, and launches it at the precise moment to maximize kill probability, protecting all critical assets.

Integration at Scale

Leveraging the company's CommandIQ® C2 integration platform, the Aegis Guam system and TPY-6 radar, the company demonstrated coordinated decision-making at multiple classification levels, improving speed, precision, and interoperability for joint and coalition forces in a region defined by distance, complexity, and strategic importance.

"In the Indo-Pacific – one of the most challenging operational environments in the world – strategic advantage will belong to those who can rapidly integrate, scale and field the best-of-breed capabilities ahead of evolving threats," said DePietro.

Lockheed Martin has supported U.S. and allied missions throughout the Indo-Pacific for decades, working alongside customers to deliver and evolve the technologies needed to address emerging operational challenges. Valiant Shield 2026 highlighted the growing importance of interoperability, software-driven capability, integration and real-time data sharing in contested environments, where decision advantage depends on the ability to connect sensors, systems, and operators across domains with speed, confidence and precision.

About Lockheed Martin

Lockheed Martin is a global defense technology company driving innovation and advancing scientific discovery. Our all-domain mission solutions and 21st Century Security® vision accelerate the delivery of transformative technologies to ensure those we serve always stay ahead of ready. More information at Lockheedmartin.com.

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