

# Aegis Demonstrates Open Architecture Capabilities In Simulation Using Joint Single Integrated Air Picture Product

Lockheed Martin conducted a successful demonstration of simulated missile engagement in which the Integrated Architecture Behavior Model (IABM) was integrated into the Aegis Weapon System to provide a Single Integrated Air Picture (SIAP).

The IABM used in the simulation is developed by the Joint Single Integrated Air Picture System Engineering Organization (JSSEO). The Department of Defense established JSSEO to enhance the warfighting interoperability of the military services and other defense agencies. To support this mission, the SIAP delivers incremental capability drops, called Time Boxes, to the services. Lockheed Martin used Time Box 30 - which built on capabilities demonstrated in previous Time Boxes - for the recent demonstration. Lockheed Martin integrated it with the latest Aegis Open Architecture (OA) products, currently in development for the Navy's Cruiser Modernization program.

"This event represented the first missile engagement demonstration for the IABM," said Col. Stephen Fairbairn, JSSEO program director. "The Aegis Open Architecture environment that enabled this integration demonstration will be key to fielding a SIAP capability that will support all the Services."

The demonstration focused on demonstrating a simulated Standard Missile engagement in which the Aegis SPY-1 radar data was passed to the IABM, where it was integrated into the Aegis OA Command & Decision system. The resultant IABM track data was then used to conduct a successful operator-initiated missile engagement by the Aegis OA Weapon Control/Fire Control system. The SPY-1 radar provided 3D track reports and associated measurement reports to the IABM to support the successful missile engagement.

Based on the success of the demonstration, Lockheed Martin installed the IABM at Lockheed Martin's Technology Collaboration Center (TCC) in Washington, D.C., to support additional demonstrations.

The TCC is equipped with an open architecture combat system infrastructure into which newly developed or evolving technologies can be inserted and tested with combat system components that are part of multiple naval programs, such as the Aegis Weapon System, Littoral Combat Ship and the National Security Cutter.

Headquartered in Bethesda, MD, Lockheed Martin employs more than 140,000 people worldwide and is principally engaged in the research, design, development, manufacture, integration and sustainment of advanced technology systems, products and services.

For additional information on Lockheed Martin Corporation, visit: <http://www.lockheedmartin.com/>

First Call Analyst:

FCMN Contact:

SOURCE: Lockheed Martin

Web Site: <http://www.lockheedmartin.com/>

---

<https://news.lockheedmartin.com/2006-11-07-Aegis-Demonstrates-Open-Architecture-Capabilities-in-Simulation-Using-Joint-Single-Integrated-Air-Picture-Product>