Navy Approves Raytheon's Zumwalt Total Ship Computing Environment Infrastructure

October 30, 2007


TSCEI is a key element of the ship’s overall Total Ship Computing Environment, which comprises six releases of software and more than 5 million lines of code. Each incremental TSCEI release adds improved mission capability and robustness to Zumwalt's computing infrastructure, upon which all applications will execute and interoperate.

TSCEI combines with Zumwalt's mission applications to provide an open architecture mission system designed to meet all DDG 1000 surface combatant requirements and is scalable to meet evolving operational needs. This architecture integrates all warfighting and peacetime operations into a single, common computing environment that encompasses combat systems and C4ISR (command, control, communications and computers, intelligence, surveillance and reconnaissance).

"Throughout the development of the TSCEI, the Navy has expressed great confidence in our software team's ability to deliver a best-in-class open-architecture computing solution," said Raytheon's Zumwalt System Software Development Director Bob Martin. "Moving forward with this milestone release adds another chapter to this exceptional customer satisfaction story."

The Zumwalt TSCEI provides a shipboard enterprise network allowing seamless integration of all on-board systems. It also gives the Navy increased ability to use standardized software and commercial-off-the-shelf hardware on a fleet-wide basis. TSCEI provides computer support for Zumwalt ship control, maintenance, logistics, training and other deployment functions. This level of integration and automation is unprecedented and is a primary driver for the 60 percent reduction in manning being implemented on the Zumwalt-class destroyer.

TSCEI integrates advanced security features for authentication, access control, network encryption and high-assurance guards to enable trusted operations and data sharing across multiple information security domains.

Under the Navy's DDG 1000 Detail Design and Integration contract awarded in 2005, Raytheon IDS serves as the prime mission systems equipment integrator for all electronic and combat systems for the Zumwalt-class destroyer program. Working with the Navy and a team of industry leaders, IDS is leading the effort to transform the Navy's ship requirements to reality. For more information, visit http://www.raytheon.com/products/ddg_1000.

Integrated Defense Systems is Raytheon's leader in Joint Battlespace Integration providing affordable, integrated solutions to a broad international and domestic customer base, including the U.S. Missile Defense Agency, the U.S. Armed Forces and the Department of Homeland Security.

Raytheon Company, with 2006 sales of $20.3 billion, is a technology leader specializing in defense, homeland security and other government markets throughout the world. With a history of innovation spanning more than 80 years, Raytheon provides state-of-the-art electronics, mission systems integration and other capabilities in the areas of sensing; effects; and command, control, communications and intelligence systems, as well as a broad range of mission support services. With headquarters in Waltham, Mass., Raytheon employs 73,000 people worldwide.

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