



# IBM and Raytheon Deliver Technology Solution for DDG 1000 Next Generation Navy Destroyers

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PR9.NET February 07, 2007 - WASHINGTON, DC - IBM (NYSE: IBM) and Raytheon announced today the Navy will begin deploying one of its most extensive uses of IBM technology to accelerate the development of weapon systems and help reduce the number of crew members needed to sail the next generation of Navy Destroyers.

Addressing the Navy's need for a cost effective open architecture computing infrastructure, IBM and Raytheon are significantly reducing the complexity of the ship's computing environment and maintenance costs as compared to other ship classes, while providing the processing capabilities to address current and future threats. In addition, IBM and Raytheon are deploying the most advanced computing environment and standards-based infrastructure software so the systems can perform at never before seen processing rates with high levels of reliability.

Under the contract, IBM will provide BladeCenter servers and WebSphere software technology running on custom Real-Time Linux. This is critical to enabling the Navy to leverage a single computing environment for all applications that range from command-and-control, navigation, targeting, weapons control, and radar systems.

This represents the military's first use of an IBM open standards-based platform and will aid the Navy, cutting the cost of developing and maintaining traditionally expensive real-time applications so it can speed development of mission critical combatant systems.

The IBM technology is the latest enhancement to the Navy's Total Ship Computing Environment Infrastructure (TSCEI), an open architecture platform for software application development for the DDG 1000 Zumwalt Class Destroyer Program. The environment is composed of an integrated suite of standardized hardware, operating system, middleware and infrastructure services and forms the backbone of the enterprise-network computing system on which all DDG 1000 application software programs run.

"By taking advantage of open technologies the U.S. Navy and industry are better able to create infrastructure and mission critical solutions at lower cost and risk," said David McQueeney, IBM Strategy vice president and chief technology officer, US Federal. "The TSCEI project has been an outstanding example of collaboration between IBM, Raytheon, the open source community and the U.S. Navy to deliver state-of-the-art solutions in support of our national defense."

The IBM Java Technology Center and Linux Technology Center, Red Hat and the open source Linux community collaborated with Raytheon to create a new real-time Java and real-time Linux environment in support of the Navy's TSCEI capability. A key aspect to the technology is for a broader community of Java programmers to develop applications that can execute and provide predictable to millisecond granularity execution times -- a critical achievement that helps the military limit development risks, lower costs and decrease integration challenges.

This implementation can be leveraged throughout the Navy. To ensure long term viability and broad industry acceptance the initiative used widely accepted standards as the basis for these product improvements. IBM WebSphere Real-Time Java product implementation is compliant with the Real-Time Specification for Java (RTSJ) and the real-time extensions to Linux are conformant with the Portable Operating System Interface (POSIX) standard.

This work was initiated in response to the military's need for a Real-Time Java and Linux solution based on open standards that preserves the Java programming model and supports the Navy's Open Architecture initiative. The technology is also under evaluation by other branches of the Department of Defense, Department of Homeland Security, Intelligence Agencies and others as well as non-government industries such as Financial Services and Telecommunications, where secure and highly predictable solutions are required.

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