November 7, 2006


A complete set of specifications, design documents, source code and user guides for the DDG 1000 Total Ship Computing Environment Infrastructure (TSCEI) Release 4.1 has been delivered and will be made available via the PEO IWS SHARE (Software-Hardware Asset-Reuse Enterprise) repository.

DDG 1000 Software Director Bob Martin said, "Delivery of TSCEI 4.1 to the SHARE library -- with unlimited data rights -- is a significant step enabling the Navy to achieve its Open Architecture objectives for the fleet." The SHARE library institutionalizes OA principles and practices across the Navy enterprise. It ensures that all naval and joint programs and qualified Department of Defense vendors can access OA resources.

TSCEI is an integrated suite of standardized OA hardware, operating system, middleware and infrastructure services. It forms the backbone of the Total Ship Computing Environment (TSCE). The TSCE is a robust, enterprise-network computing system on which all DDG 1000 application software programs run.

TSCEI Release 4.1 builds upon the successful TSCEI 4.0 capabilities. It enhances software timer functionality and provides additional data collection capabilities. TSCEI 4.1 offers additional capabilities not only for DDG 1000 applications, but also for the entire OA community. As in Release 4.0, TSCEI 4.1 continues to show excellent performance characteristics while running on the IBM(R) Blade Server Processor suite.

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 DDG 1000 Zumwalt Class Destroyer program.


Raytheon Company, with 2005 sales of $21.9 billion, is an industry leader in defense and government electronics, space, information technology, technical services, and business and special mission aircraft. With headquarters in Waltham, Mass., Raytheon employs 80,000 people worldwide.

Note to Editors:

Exemplifying TSCEI OA virtues, Raytheon engineers and partners have already integrated a previous version of TSCEI (Release 3) with the OA version of Ship Self Defense System MK 2 (SSDS OA). On June 22, 2006, Raytheon announced that SSDS OA successfully passed formal qualification testing.

This milestone enables the first delivery of a complete surface ship combat management system that meets the Navy's Open Architecture Computing Environment (OACE) standards. Through TSCEI reuse, the combat management system migrated to OACE Category 3. The system will undergo further developmental testing by Raytheon and the Navy in preparation for full production, planned for 2007. Initial deliveries are scheduled in 2008 for three ships: USS Nimitz (CVN 68), USS San Antonio (LPD 17) and LHA 6.

In developing the TSCEI and TSCE, Raytheon has built upon available industry technologies to provide affordable "best-in-class" OA enterprise network solutions for DDG 1000 and the Navy's Family of Ships. Raytheon has actively cultivated partnerships with 33 software development sites employing more than 1,200 people. Raytheon has also engaged 12 Small Business Innovative Research program contractors and 42 commercial suppliers in the production of TSCE.

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