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## KUKA Controls Adds High-end Graphical Interface to the U.S. Navy SLBM Simulator

**Publication date on this website:** Thursday, September 01, 2005

**Company:** KUKA Controls GmbH

**Category:** [Press Releases](#) : [Industry News \(Market\)](#)

### Summary:

KUKA Controls Software Adds High-end Graphical Interface and Reduces Hardware Requirements on the US Navy's SLBM Weapons System Simulator

New software links Wind River VxWorks® with Windows® XP on a single processor to eliminate the need for a secondary dedicated display

### Full Text:

KUKA Controls announces that its VxWin® software was selected as the basis for the Navy's SLBM weapons training system. The SLBM training system is being developed to train sailors on the Navy's SLBM weapons systems. The VxWin based simulator runs the same software as the actual weapons system and provides realistic and deterministic behavior while eliminating the need for actual weapons system hardware. VxWin was chosen because it meets the Navy's stringent performance, open platform and reliability requirements. Use of a single computer lowers the hardware requirements and reduces the system size while running the same software deployed on the actual weapon systems.

“The use of VxWin greatly reduces our cost and increases the effectiveness of our SLBM training program,” notes Stanley Palivoda. “The proper training of our sailors is one of the highest priorities of the Navy and this system helps us meet that goal cost-effectively.”

The SLBM Weapons Training System provides a real-time simulation of the weapons systems deployed aboard SSBN's (guided missile launching) submarines. The SSBN class submarines have the ability to carry 24 ballistic missiles and accurately deliver them to targets anywhere in the world. The simulators will train both existing personnel and new personnel on these launch

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systems.

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VxWin enables the coexistence of commercial-off-the-shelf Wind River VxWorks and Microsoft Windowsâ XP operating systems on one computer. VxWin technology works, in part, by dividing the PC memory so that each operating system executes in separated and protected memory areas. No modifications are made to either operating system allowing developers to take advantage of previous experience and existing code while maintaining maximum flexibility.

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KUKA Controls' real-time software extensions have applications in the Aerospace, Automation, Defense, Medical and Test & Measurement markets. The company is a Microsoft Gold Level Windows Embedded Partner (WEP) and a Wind River Platform Partner. These long-term relationships provide smooth integration of the latest OS updates and assure customers of the necessary long-term platform stability. KUKA Controls also certifies third-party hardware compatibility to simplify development of new real-time applications.

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Application development is enhanced with support for both Wind River's Eclipse-based Workbench or Tornado development environments as well as the Wind River Diab C/C++ compiler suite and the legacy GNU compiler. Applications will benefit from the many additional features of the latest Wind River RTOSe. The VxWin 3.1 evaluation software is available as a free download on KUKA Controls' website at [www.kuka-controls.com](http://www.kuka-controls.com). It offers the complete functionality of the full version for a 30-day test period.

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About KUKA Controls GmbH ([www.kuka-controls.com](http://www.kuka-controls.com))  
 KUKA Controls GmbH is a wholly owned subsidiary of KUKA Roboter GmbH, the number one European industrial robot manufacturer and a part of IWKA AG Group. KUKA Controls specializes in real-time software, operating systems, motion control, graphical user interfaces (GUI), handhelds, dynamic algorithms, PC-based hardware development and application programming. KUKA Controls globally markets real-time extension technology for automation and robotics as well as test and measurement instrumentation, and medical devices and equipment. KUKA robot controllers are developed and produced for the parent company.

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About KUKA Roboter GmbH ([www.kuka-roboter.de](http://www.kuka-roboter.de))  
 KUKA Roboter GmbH, Augsburg is an IWKA Group company and is the world's leading manufacturer of PC-based industrial robots. The company's core competencies are the

development, production and sales of industrial robots, controllers, software and linear units. KUKA is the market leader in both Germany and Europe and ranks 3rd place worldwide. The KUKA Robot Group employs 1,650 people and is represented by over 20 subsidiaries in Europe, USA and Asia. In 2003, company sales were 420 million Euro. For more information on KUKA Roboter GmbH, contact Mr. Jürgen Schulze, PR Manager. Tel.: 0821-4533-3473 or [juergenschulze@kuka-roboter.de](mailto:juergenschulze@kuka-roboter.de).

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