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## **IAR Systems Offers Express Logic's ThreadX<sup>®</sup> RTOS with IAR Embedded Workbench<sup>®</sup> IDE**

*Best-in-class tools and RTOS tightly integrated to create blended embedded development solution from a single source provider*

**San Diego, CA and Uppsala, Sweden, December 5, 2011** — Express Logic, Inc., the worldwide leader in royalty-free, real-time operating systems (RTOS), and IAR Systems<sup>®</sup>, the leading independent provider of software development tools for embedded systems, today announced that IAR Systems will sell and support Express Logic's ThreadX<sup>®</sup> RTOS, integrated with IAR Embedded Workbench<sup>®</sup>, for development of real-time embedded systems. By becoming a single-source, total solution provider for ThreadX and IAR Embedded Workbench, IAR Systems answers developers' needs for tightly integrated, easy-to-use tools that make embedded development faster, easier, and more productive. IAR Embedded Workbench is in use by over 14,000 companies worldwide, and Express Logic's ThreadX RTOS is deployed in more than 1 billion electronic products, in consumer electronics, medical devices, and industrial control systems.

Developers of 32-bit embedded systems generally use an RTOS to manage the real-time scheduling of multithreaded applications and an integrated development environment to build applications from source code into firmware. The more integrated the combined tools, the easier the development solution. IAR Systems and Express Logic have, therefore, combined IAR Embedded Workbench and ThreadX, each widely used and highly regarded, to provide a much more powerful, affordable, fully integrated tool, which developers can purchase from IAR Systems.

## **The Products**

Express Logic's ThreadX RTOS is a priority-based, preemptive scheduling RTOS for embedded applications. ThreadX is small in size, fast in real-time performance, and 100% royalty-free, making it ideal for applications in SoC development and end products. ThreadX is widely used in a variety of electronic products from highly regarded manufacturers, such as Apple, Sony, Broadcom, Welch-Allyn, and GE.

"We are excited to partner with IAR Systems in offering developers a fully integrated, powerful, best-in-class solution for embedded systems development," commented William E. Lamie, President of Express Logic, Inc. "With IAR Embedded Workbench and our ThreadX RTOS, developers will achieve faster time-to-market and more successful products, enabling them to succeed more effectively in today's highly competitive marketplace."

IAR Embedded Workbench is a high-performance C/C++ compiler and debugger tool suite for applications based on 8-, 16-, and 32-bit microcontrollers. IAR Embedded Workbench features comprehensive and capable tools that allow developers to build new competitive products.

"IAR Systems is pleased to offer developers a complete solution, combining these powerful tools in a tightly integrated, easy-to-use form," said Stefan Skarin, CEO of IAR Systems, AB. "ThreadX is a very popular RTOS among our many customers, and we are excited now to be able to offer it as part of a highly integrated, IAR-supported solution that will benefit embedded developers."

## **Integrated Features**

The IAR Embedded Workbench and ThreadX RTOS integration provides an unprecedented level of intuitiveness and efficiency. Embedded development will become easier and faster, resulting in shorter time to market and better-performing, end-user products.

Express Logic and IAR Systems offer these integrated features:

- ThreadX C/C++ and Assembly source code is 100% IAR compiler/assembler-compatible;
- ThreadX source code and libraries are structured as IAR Embedded Workbench projects, enabling immediate project building and debugging;
- The IAR C-SPY® Debugger includes ThreadX RTOS Awareness, providing insight into application threads, message queues, semaphores, mutexes, and other kernel objects;
- ThreadX RTOS Awareness shows thread-level execution profiling, giving developers critical information about CPU timing;
- Automatic RTOS and application event-trace displays can be selected from the IAR C-SPY Debugger with just a single click;

- IAR Embedded Workbench supports project configurations to control compiler optimizations for size and speed, and ThreadX build options for debug, trace, and execution profiling, enabling various application and RTOS builds to support different development activities.

ThreadX for IAR Embedded Workbench can be downloaded for a free trial from IAR Systems' web site at: [www.iar.com/ThreadX](http://www.iar.com/ThreadX). The free trial is available for a variety of 32-bit processor architectures and includes a pre-built ThreadX library and full source code for a demo application that can be modified to form real applications.

#### **About IAR Systems**

IAR Systems is the world's leading supplier of software tools for developing embedded systems applications. The software enables over 14,000 large and small companies to develop premium products based on 8-, 16-, and 32-bit microcontrollers, mainly in the areas of industrial automation, medical devices, consumer electronics, telecommunication and automotive products. IAR Systems has an extensive network of partners and cooperates with the world's leading semiconductor vendors. IAR Systems Group AB is listed on NASDAQ OMX Stockholm. For more information, please visit [www.iar.com](http://www.iar.com).

#### **About Express Logic and ThreadX**

Headquartered in San Diego, CA, Express Logic offers the most advanced run-time solution for deeply embedded applications, including the popular ThreadX® RTOS, the high-performance NetX™ TCP/IP stack, the FileX™ embedded MS-DOS compatible file system, and the USBX™ Host/Device USB protocol stack. All products from Express Logic include full source code and have no run-time royalties. For more information about Express Logic solutions, please visit the Web site at <http://www.rtos.com>, call 1-888-THREADX, or e-mail inquires to [info@expresslogic.com](mailto:info@expresslogic.com).

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