

IntervalZero

Product Release Notice

RTX 2009 & RTX 2009 SMP with Service Pack 1

- **Product Released to Channel Partners on February 22, 2010.**
- **Product Released for General Availability on February 26, 2010.**

PRODUCT OVERVIEW:

IntervalZero, Inc. announces the release of Service Pack 1 for our market-leading RTX software – RTX 2009, and RTX 2009 SMP.

Service Pack 1 for RTX 2009, and RTX 2009 SMP is supported on Windows 7 (dedicated configuration); Windows Vista, up through SP2; Windows XP, up through SP3; and Windows Embedded Standard 2009.

RTX 2009 SMP is an essential component in a powerful new Soft-Control Architecture that is changing the basis of competition for Embedded OEMs.

The foundation for Soft-Control Architectures in hard real-time environments is an Integrated Real-Time Development Platform comprising Microsoft Windows, multiprocessor x86 architectures, and IntervalZero's RTX 2009, which provides real-time operating system functionality as an extension to Windows and enables real-time SMP.

Soft-Control Architectures give OEMs clear competitive advantages and product differentiation by delivering breakthroughs in throughput and yields; in production quality; in a more compact physical footprint; and in cost reductions of 25-50%.

OEMs that will benefit most from a Soft-Control Architecture have complex Human-Machine Interfaces; require the precise coordination of multiple tasks and the deterministic hard real-time performance capabilities that RTX delivers; and also want to benefit from innovative technologies and industry trends.

By leveraging RTX 2009's native symmetric multiprocessing (SMP) support on multiprocessor architectures, and its tight integration to the Microsoft Windows' environment, OEMs get a market-leading Soft-Control Architecture that moves the hard real-time control logic, such as PLC or motion logic, from specialized hardware components to software components. The software runs on multi-core, industrial-strength commodity x86 processors and uses both Open Standards and Standard Communications Architecture, such as USB and real-time Ethernet.

IntervalZero

266 2nd Avenue • Waltham, MA 02453

www.IntervalZero.com

RTX 2009 & RTX 2009 SMP with Service Pack 1 PRODUCT AND PRICING INFORMATION:

RTX 2009 and RTX 2009 SMP with Service Pack 1 are available for sale on February 26, 2010.

The Software Development Kits (SDKs) for RTX 2009 and RTX 2009 SMP with Service Pack 1 are priced separately, based on the customers' selection of the Runtime that is included with their SDK purchase.

- **The RTX 2009 with Service Pack 1 Runtime includes support for real-time operations on one shared or dedicated RTX processor in a uniprocessor or multiprocessor environment.**
- **The RTX 2009 SMP with Service Pack 1 Runtime includes support for SMP, which makes it possible to operate on one shared or up to seven dedicated RTX processors in a multicore/multiprocessor environment. SMP support is a significant value-add capability that enables greater, more scalable system performance system performance.**

Support of multiple real-time threads running concurrently on multiple processors in a single system, allowing end users to create more powerful solutions while reducing hardware costs and physical footprint

Simplified streamlined product development through the elimination of numerous architectural challenges. With SMP, real-time threads executing on multiple processors/cores can communicate and share resources directly with one another, eliminating the need for multiple single-board computers arranged in a bus communication design.

Updated pricing information is available through Channel Partners and by contacting IntervalZero Sales – sales@IntervalZero.com.

Snapshot: RTX 8.1, RX 2009 & RTX 2009 SMP with Service Pack 1 Runtime functionality

RTX Processor Utilization Options	RTX 8.1	RTX 2009 with SP1	RTX 2009 SMP with SP1
RTX real-time subsystem shares one processor with Windows	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
RTX real-time subsystem has one dedicated processor	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
RTX real-time subsystem has from one to seven dedicated processors			<input checked="" type="checkbox"/>

New Features and Updates included in Service Pack 1:

RTX 2009 and RTX 2009 SMP with Service Pack 1 include the following new features and updates:

- Dedicated configuration support for Windows 7
- Configurable priority inversion protocol
 - Priority promotion with tiered demotion
 - Priority promotion with limited demotion
 - Disabled
- Win32 Managed Code Support
- Support for Registry access within RTSS applications
- Visual Studio 2008 support
- Supports the use of PAE under all configurations
- Earlier boot start through the PNP Automatic start option
- Quick Start and mini-tutorials available as part of our product documentation
- Support for the C Runtime __aligned functions to better support SSE

Bug Fixes, Patches included in Service Pack 1:

The following bugs have been fixed in this release:

- Subsystem was unable to handle an invalid number of processors without hanging.

Incorporated patches:

- RTX 8.1.1 Stability Update: improves overall stability of loading and unloading of the RTS Subsystem.
- RTX 8.1 Service Pack 2: This cumulative release contains all the features of the previous updates. Along with support for Visual Studio 2008.
- RTX Visual Studio 2008 Addin Update - This update addresses an issue with a corrupted call stack being displayed in the Microsoft Visual Studio 2008 IDE while debugging RTSS applications.

IntervalZero

266 2nd Avenue • Waltham, MA 02453

www.IntervalZero.com

Availability

RTX 2009 and RTX 2009 SMP with Service Pack 1 are available through Partners and by contacting Sales: sales@intervalzero.com or (781) 996- 4481.

We look forward to comments and feedback. If you have any other recommendations or wish to suggest any enhancements to IntervalZero, please contact Sales at sales@intervalzero.com or Product Management at: ProductManagement@intervalzero.com.

IntervalZero

266 2nd Avenue • Waltham, MA 02453

www.IntervalZero.com