

## Product Release Notice

# RTX 2009 with Service Pack 2 Update 3

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## Release Date

Update released for General Availability on February 15, 2013.

## Product Overview

RTX 2009 with Service Pack 2 Update 3 is supported on Windows 7; Windows Embedded Standard 7; Windows Vista; Windows XP SP3; and Windows Embedded Standard 2009.

## Features and Updates

RTX 2009 with Service Pack 2 Update 3 includes the following new Features:

- The RT-TCP/IP stack now allows for the monitoring of network device interfaces for link status via new fields in the RT-TCP/IP INI file.
- Two new real-time Network API calls have been added that allow you to determine the status of the stack and drivers:
  - RtnIsDeviceOnline
  - RtnIsStackOnline
- A new feature was integrated into RtssARP command line utility, by allowing the -t switch to accept -1, the ARP timeout value becomes 0xFFFFFFFF, which is essentially infinity.

RTX 2009 with Service Pack 2 Update 3 includes the following Updates:

- Resolved an issue where a memory leak occurred in RTAPI\_w32.dll. (RTX-1267)
- Resolved an issue where the system would hang while sending and receiving IP packets to/from the RT-TCP/IP Stack. (RTX-1177)
- Resolved an issue where a lock-release violation could occur with the RTX Subsystem under certain SMP conditions. (RTX-1220)

- Resolved an issue where the RT-TCP/IP Stack displayed messages even when Verbose Mode was disabled. (RTX-1281)
- Resolved an issue where threads created by the RT-TCP/IP stack and device drivers did not exit gracefully. (RTX-1129)
- Resolved an issue where, on machines with multiple network device interfaces, a network device interface experienced latency in sending and receiving data using Broadcast while the other network device interface was disconnected (RTX-1, 4, 5, 7)
- Resolved an issue that occurred when jumbo packets were used with the Intel Pro 1000 CT adapter. (2559)
- Resolved an issue where the ping timer did not use the correct timings. (2517)
- Resolved an issue that when multiple NICs were being controlled by the RTX Stack it was possible for one NIC to cause the whole stack to fail.

## Fixes from Previous Updates

RTX 2009 with Service Pack 2 Update 3 includes all changes from update 2:

- Ensured structured exception handling works in Shared Configuration mode (2360)
- Ensured Properties API RtcpGetSystemInfo returns the correct number of total processors when RTX User Account Control Override service is running
- Ensured RTX was able to correctly start on a Uniprocessor PIC system
- Ensured RTK API RtkRtssDetach context parameter contains the correct information registered with RtkRtssAttachEx (2494)
- Resolved issue where the ping timer did not use correct timings for time stamping (2517)
- Resolved issue where the stack would not reconnect after a Intel 82574 NIC was physically disconnected (2521)

RTX 2009 with Service Pack 2 Update 3 includes all changes from update 1:

- Modified the way the RTX Plug and Play driver responds to a Windows 7 power shutdown query to ensure that the driver and the RTX subsystem do not hang during a Windows 7 shutdown (2282)
- Added busy wait functionality to the RtE1000 driver (2064)
- Ensured RT-TCP/IP stack affinity is correctly set from the Properties control panel (1446)
- When multiple NICs are used, ensured that one failure does not cause all NICs to fail (1724)
- Ensured RegQueryValueEx function returns the correct error code (2024)
- Added missing export function RegOpenKeyExA for ANSI support
- Ensured function strlen links correctly when using the Intel compiler (1368)
- Ensured structured exception handling works as expected (1886)
- The memset function was not linking correctly when C Runtime is not included (2026)

- Resolved issue with Visual Studio 2010 not aligning memory to 8-byte for function expand (1955)
- Ensured Realtek network driver can be set to Promiscuous mode with IOCTL ENIOCPROMISC (1711)
- Ensured RtxServer console settings are saved on the options dialog (2081)
- Perform correct action when 'Obtain line-based resources' box is selected when configuring device (1662)
- Resolved an issue where Windows 7 was unable to assign static IP addresses to Windows-controlled NICs after RTX controls a NIC (2039)

## Availability

RTX 2009 with Service Pack 2 Update 3 is available beginning February 15, 2013 through the IntervalZero web site <http://www.intervalzero.com/rtx-2009-downloads>, through Partners, and by contacting Sales: [sales@intervalzero.com](mailto:sales@intervalzero.com) or (781) 996-4481.

We look forward to your comments and feedback. If you have any recommendations or wish to suggest product enhancements, please contact Sales at [sales@intervalzero.com](mailto:sales@intervalzero.com) or Product Management at: [productmanagement@intervalzero.com](mailto:productmanagement@intervalzero.com).