

Product Release Notice

RTX 8.1 with Service Pack 2 Update 5

Release Date

Update released for General Availability on December 7, 2012.

Product Overview

RTX 8.1 with Service Pack 2 Update 5 is supported on Windows Vista; Windows XP SP3; and Windows Embedded Standard 2009.

Features and Updates

RTX 8.1 with Service Pack 2 Update 5 includes the following updates:

- The RT-TCP/IP Stack has been upgraded to use the 8.4 version of the Unicoi Systems Embedded Fusion Stack.
- The RtE1000 driver supports the 82571 EB Intel Pro 1000 PT Quad Port LP Server adapter. (2551)
- The stack allows for the monitoring of network device interfaces for link status via new fields in the RT-TCP/IP INI file.
- Two real-time Network API calls have been added that allow you to determine the status of the stack and drivers:
 - RtnIsDeviceOnline
 - RtnIsStackOnline
- The RtssArp utility supports a timeout value of 0xFFFFFFFF, which is almost infinity.
- Resolves an issue where threads created by the RT-TCP/IP stack and device drivers did not exit gracefully. (RTX-1129)
- Resolves an issue where communication problems occurred between Windows and RTX when a permanent ARP entry was created on the stack. (RTX-623)

- Resolves 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)
- Resolves an issue that occurred when jumbo packets were used with the Intel Pro 1000 CT adapter. (2559)
- Resolves an issue where the RtssPing Utility timer did not use the correct timings. (2517)
- Resolves an issue in which the Realtek network driver could not be set to Promiscuous mode with IOCTL_ENIOCPROMISC.
- Resolves an issue where a single NIC could cause the RT-TCP/IP Stack to fail when multiple NICs were controlled by the RT-TCP/IP Stack.
- Resolves an issue where the stack would not reconnect after a Intel 82574 NIC was physically disconnected. (2521)

Fixes from Previous Updates

RTX 8.1 with Service Pack 2 Update 5 includes all changes from previous updates:

- Addresses an issue where Service Request Interrupts (SRIs) appeared to be corrupt.
- Corrects a problem where interrupts that were disabled before a critical section was entered were not enabled upon exit of the critical section.
- Corrects a problem where the RTX subsystem previously could not run on an Intel Xeon X5650 6-core system running Windows Vista (with no service pack).
- Corrects a problem in which the wrong RTDLL could be unregistered by the RtssKill command line utility.
- Fixes an issue where the proxy thread stack was corrupted. Stressing the system by creating and deleting thousands of Windows threads linked with rtapi_w32.lib, over a period of multiple days, produced this issue.

Availability

RTX 8.1 with Service Pack 2 Update 5 is available beginning December 7, 2012 through the IntervalZero web site www.intervalzero.com/products/rtx-updates, through Partners, and by contacting Sales: 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 or Product Management at: productmanagement@intervalzero.com.