IntervalZero

Product Release Notice

RTX64 2013 with Service Pack 1 and Update 1

General Availability Release Date

February 10, 2014

Product Overview

RTX64 2013 with Service Pack 1 and Update 1 is the latest 64-bit version of IntervalZero's market-leading hard real-time software products. This update provides a number of important fixed issues related to Windows side RTAPI calls and the RTX64 control panel.

Features and Resolved Issues

RTX64 2013 with Service Pack 1 and Update 1 includes the following features and updates:

Activation and Configuration

- Resolved an issue regarding the Activation and Configuration utility returning success when failing to: write to the license file or import a license. (2158, 2162)
- Resolved an issue regarding multiple licenses. Previously, when more than six different features were licensed on a system, all licenses showed up as expired. (2312)
- Resolved an issue regarding the Activation and Configuration utility allowing for the user to set an invalid Windows-RTSS processor configuration. (1567)
- Improved the Activation and Configuration utility to display the associated dongle serial number when hovering over components licensed to dongles. (2237)
- Improved license file logic to prohibit duplicate licenses. (2396)

Tools

- Improved permission checking within the RTX64 control panel. A user is no longer required to have Administrator permissions to launch the control panel. (2276, 2330)
- Resolved an issue where the RT-TCP/IP stack was required to be installed to launch the RTX64 control panel. (2328)

- Resolved an issue where the RTX64 control panel did not display products licensed to dongles when the dongle was not connected to the system. (2091)

- Resolved an issue where the RTX64 control panel did not refresh information when a network interface filter was deleted. (2137)

- Resolved an issue where the RTX64 control panel did not correctly remove multiple network interfaces. (2299)

- Resolved issues where the RTX64 control panel did not provide correct information regarding the state of subsystem components and the need for a restart of the real-time RT-TCP/IP stack, real-time subsystem or the operating system. (2261, 2217, 2266, 2291)

- Resolved an issue where the RTX64 control panel did not automatically select the correct driver for the Intel i210, i350, and the Realtek controllers. (2178, 2391)

- Resolved an issue where the RTX64 control panel showed non-Network devices in the Add Interface drop down menu for the device name field. (2243)

- Resolved an issue where the RTX64 control panel did not respond to the Enter key while editing a field (2218)

- Resolved an issue where the RTX64 control panel and Rtx64Config command line utility did not properly handle configuration of the Auto Shrink field. (2324)

- Resolved an issue where Rtx64Analyzer did not gather timer response information. (2366)

- Resolved an issue where the Device Manger's RTX64 properties page did not persist the information for a need to restart the real-time RT-TCP/IP stack, real-time subsystem or the operating system. (1803)

RT-TCP/IP Stack and Drivers

- Incorporated the updated RtIGB driver, which supports the Intel® i350 controller. Resolved an issue where one port of a dual port i350 controller would not work if both ports were simultaneously enabled. Also resolved an issue where jumbo frames would not work correctly. (1957, 2260, 2321)

- Resolved and issue where SOCKADDR structure was not being properly provided to the RT-TCP/IP stack. (2338)

- Improved the RtssArp command line utility to return a valid error message in the event of an invalid address. (2282)

- Resolved an issue where the RT-TCP/IP stack's shutdown handler prevented Windows from stopping and dumping memory. (2145)

- Removed unsupported build configurations from the provided real-time network driver source. (2254)

- Resolved an issue where the RtEthernetFilter filter interface received all incoming packets twice when using the RtRtl8168 real-time network driver. (2336)

SDK

- Fully implemented Windows side RTAPI calls for RtGetBusDataByOffset, RtSetBusDataByOffset and RtTranslateBusAddress. (2155, 2340)
- Resolved an issue regarding API call RegQueryValueEx returning ERROR_INSUFFICIENT_BUFFER instead of ERROR_MORE_DATA when the user-supplied buffer was too small. (2214, 2334)
- Resolved an issue where API call RegEnumValue did not properly handle buffer overruns when filling a user supplied buffer and returned the wrong error code. (2215, 2332)
- Resolved an issue where Windows side RTAPI calls set incorrect error codes, causing GetLastError to return invalid information. (2335, 2353)
- Resolved an issue where RtMapMemory did not work correctly when called from a Windows application linked to RTX64. (2347)
- Improved the Managed code framework to provide better range checking for network Interface properties. (2219)
- Resolved an issue where RtGetModuleBaseName did not properly support UNICODE. (2300)
- Resolved an issue where GetModuleHandle did not handle NULL as an input parameter for the module name. (2356)
- Resolved an issue where network functions failed when sin_family/sa_family were set to AF_INET. (2329)

Installation
- The Runtime Installation was improved to retain real-time subsystem configuration settings during an upgrade. (2191)
- Resolved an issue where the RTX64 uninstall did not remove the RTX64 power configuration. (2133)

Activation & Licensing

The IntervalZero product licensing system allows for flexibility in how features are activated and deployed. Please click here for an overview of IntervalZero product licensing.

For additional information on deployment, refer to the RTX64 Deployment Guide located on the IntervalZero web site.

Availability

RTX64 2013 with Service Pack 1 and Update 1 is available beginning February 10, 2014 through Partners and by contacting Sales: sales@intervalzero.com or (781) 996-4481.

We look forward to comments and feedback. If you have any recommendations, or wish to suggest any product enhancements, please contact Product Management at: productmanagement@intervalzero.com.