

## Product Release Notice

### RTX64 3.5

---

#### General Availability Release Date

October 19, 2018

#### Product Overview

RTX64 3.5 is the latest 64-bit version of IntervalZero's market-leading hard real-time software products. This release provides a number of new features, usability improvements and resolved issues. Once it has been released RTX64 3.5 can be downloaded from [here](#).

#### New Feature Highlights

RTX64 3.5 contains a number of key new features described below. To see a full list of all new features, and a detailed list of issues resolved, please refer to the [product release notes](#).

- Supports Windows 10 Secure Boot feature.
- Adds support for Windows SDKs newer than version 8.1 and Visual studio 2017 Update 8.
- Offers Advanced options to help optimize a system for performance and memory resource needs:
  - Expands control over Intel Resource Director Technology (RDT) resource allocation capabilities, including Cache Allocation Technology (CAT) and Memory Bandwidth Allocation (MBA) configurations.
  - Adds a RDTPerformance Sample, which provides an example of how to use RTX64-supported Intel Resource Director Technology (RDT) to optimize the performance of particular RTSS threads with high performance requirements.
  - Provides the ability to override Energy/Performance bias on Windows, along with a range for configuring performance vs. energy savings in RTX64.

- Provides RTSS per-process, -thread, and -processor level CPU usage information in the RTX64 Task Manager and through RTAPI calls, allowing developers greater insight into how to optimize and load balance their applications.
- RTX64 Task Manager is enhanced to include a status (Running, Under Debug, Suspended, and Frozen) along with the Ideal processor for all listed RTSS processes.
- Improves Watchdog timer functionality to better determine a starvation timeout on a dedicated RTSS core, so the timeout is correctly reset on a context switch, not the processor idle thread. Also provides the ability to allow for specific core timeouts to be manually reset through an RTAPI call.
- Adds support for C++ magic static local variables and implicit Thread-Local Storage (TLS), which supports initialization and finalization of variables declared with storage class `thread_local` and `__declspec(thread)`.
- Adds support for C Runtime functions *assert* and *abort* under Debug mode that cause assertions when invalid parameters are passed. Assertion checks that fail through secure functions will throw an exception and display a message through the RTX64 Server console.

## 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, please refer to the *RTX64 Deployment Guide*.

## Availability

RTX64 3.5 is available beginning October 19, 2018 through Partners and by contacting Sales: [sales@intervalzero.com](mailto:sales@intervalzero.com) or (781) 996-4481.

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