

# Product Release Notice

## MaxRT wRTOS™ 1.0.1

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### General Availability Release Date

May 15, 2026

### Product Overview

MaxRT wRTOS™ 1.0.1 is the latest release of IntervalZero’s hard real-time software products for Windows. MaxRT consolidates and rebrands two IntervalZero product lines – RTX64, which transforms Windows into an RTOS, and KINGSTAR, a machine automation software product – into a unified software offering designed to streamline engineering workflows for industrial automation and machine control applications.

This release includes expanded processor support, improves usability and system configuration workflows, and resolves issues across runtime components, EtherCAT, networking, tools, and SDK APIs.

To see a complete list of all new features, supported configurations, APIs, and resolved issues, please refer to the [product release notes](#) available in the online MaxRT wRTOS 1.0.1 Help documentation.

### Key Features & Enhancements

#### Runtime

##### General

- Added support for these Intel® processors (13754):
  - Panther Lake (Core Ultra Series 3)
  - Arrow Lake (Core Ultra Series 2)
  - Amston Lake Refresh (Atom 7th Gen x7809C)

##### Tools and Utilities

- Added the wRTOS E-CAT Diagnostic Tool for monitoring connectivity between

EtherCAT MainDevice and SubDevices. The tool displays device topology, EtherCAT states, and communication errors to help identify connection issues and device faults. (14812)

## SDK

### Samples

- Added the following E-CAT samples: (7416)
  - FieldbusEcatAxisIoModule: demonstrates how to control an axis and an I/O module.
  - FieldbusEcatStartupConfig: demonstrates how to configure startup parameters and how to launch and shut down a MainDevice.
  - FieldbusEcatSubDevice: demonstrates how to handle asynchronous commands by sending SDO read/write requests to an axis.

### Issues Resolved

#### Runtime

- Added logic to close all open MaxRT wRTOS tools when wRTOS is uninstalled. (14320)
- Resolved multiple issues in wRTOS Settings:
  - Resolved an issue where wRTOS Settings inconsistently displayed *Restart Needed* warnings for NL2 or TCP/IP setting changes. (14293)
  - Resolved an issue where wRTOS Settings allowed the Process Output log file location to be an invalid path. (14089)
  - Resolved issues where navigation loops and/or redundant dialogs occurred when a user navigated to the wRTOS Settings E-CAT page without a MaxRT wRTOS Fieldbus license (WFBS64). (14773)
  - Resolved a wRTOS Settings crash that occurred when an interface queue or message dialog was opened for an interface associated with a custom driver. (15066)
  - Resolved an issue where wRTOS Settings erroneously showed hardware timestamping as unsupported when the RtndI10gb driver (x550 device) was used. (14250)
  - Resolved an instability with the MainDevice Name field on the wRTOS Settings E-CAT page when a network interface card was assigned to a MainDevice instance. (14786)
  - Resolved an issue with the wRTOS Settings E-CAT page which allowed an invalid state where a Secondary MainDevice instance role could be set without a Primary role. (14757)
  - Resolved an issue where the *Add an Interface* dialog on the wRTOS Settings

/ Interfaces page didn't always auto-populate or populated with incorrect information. (14231, 14261)

- Resolved an issue where *RtObjects* failed to allocate memory for multiple vector output string pointers for some NICs converted to wRTOS. (13800)

## SDK

- Resolved a timeout that occurred when *RttcipStartComponent* and *RttcipStopComponent* were called in quick succession. (14536)
- Added logic to close all open MaxRT wRTOS tools when wRTOS is uninstalled. (14320)
- Resolved an issue where *RtfwSetConsoleConfiguration* failed to accept directories with other attributes. (14050)
- Real-time function *RtIsAppRunnable* now sets the correct error, `ERROR_NO_LICENSE`, when the *majorVersion* parameter is not set. (13918)
- Windows-supported function *VirtualAlloc* now correctly sets the last error to `ERROR_INVALID_PARAMETER` when the *dwSize* parameter is 0. (13914)
- Real-time function *RtSetThreadPriority* now correctly returns `ERROR_INVALID_PARAMETER` when the *RtssPriority* parameter is invalid. (13910)
- Managed method `IntervalZero.MaxRT.wRTOS.RtApi.Threading.RtWaitHandle.WaitAny` now correctly throws an exception when passed a handle of 65 or greater. (13865)
- Resolved an issue where managed property `IntervalZero.MaxRT.Ecat.Api.NetApi.MainDeviceDiagnostics.SubDevices` always returned a count of 256 devices. (14997)

## Availability

MaxRT wRTOS™ 1.0.1 is available beginning May 15, 2026 through Partners and by contacting Sales: [sales@intervalzero.com](mailto:sales@intervalzero.com).

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)