



Product Release Notice

KINGSTAR 4.4.1 Runtime

General Availability Release Date

September 28, 2023

Product Overview

KINGSTAR is an all-software, complete “plug-and-play” PC-based Machine Automation platform for IoT and Industry 4.0. Key pre-tested and pre-integrated industrial machine components include software-based motion control, machine vision, programmable logic controller (PLC) and the industry’s only plug-and-play EtherCAT master that auto-discovers any vendor’s EtherCAT drive, IO or device and auto-configures the EtherCAT environment at startup. Built on the EtherCAT standard and supported by a real-time 64-bit Windows operating-system (RTOS) from IntervalZero, KINGSTAR empowers engineers to design, develop and integrate machine control applications or a system of controllers on a single Industrial PC. The KINGSTAR platform can replace all hardware with software-only motion controllers and machine vision positioning systems quickly and cost-effectively.

KINGSTAR version 4.4.1 allows developers to select only the functionality they need. KINGSTAR’s flexibility is provided through feature packages that allow you to grow your product at any time by adding functionality to the existing KINGSTAR Runtime.

KINGSTAR Runtime feature packages:

- Core packages for: 1, 2, 3 or 7 KINGSTAR cores
- Motion Packages for: Point to Point, Synchronization, Blending, and Kinematics
- Axis Packages for: 8, 16, 32 or unlimited axis
- High Speed Timer
- Multiple Masters
- Hot Connect
- Cable Redundancy
- Programmable Logic Controller (PLC)

Resolved Issues

RT/Win32 & .NET API

- Resolves an issue where **StartFromConfiguration** returns the wrong vendor ID. [KS-5216]
- Resolves an issue where calling **GetAxisParameter** after **StartFromConfiguration** has completed, causes **GetAxisParameter** to return **errWrongSubsystemState**. [KS-5244]
- Resolves an issue where **IAxis.Slave** and **IloModule.Slave** are null after subsystem start when using **StartFromConfiguration** with real devices. [KS-5245]

.NET Class

- Resolves an issue where **IAxis.ControlMode** and **IAxis.AvailableControlModes** may be incorrect when alias is enabled. [KS-5211]
- Resolves an issue where **IAxis.IndexAlias** was not updated after the alias was configured. [KS-5213]
- Improved tool functions to show devices by alias when enabled. [KS-5214, KS-5215]

ESI Import Tool

- Resolves an issue where the ESI Import Tool was not properly importing certain devices such as Beckhoff EL3xxx and EL4xxx. [KS-5212]

Availability

KINGSTAR 4.4.1 Runtime is available beginning September 28, 2023 through Partners and by contacting Sales: 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.