

SEGGER expands SystemView support to Eclipse ThreadX

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SEGGER's real-time software analysis tool [SystemView](#) now supports [Eclipse ThreadX](#) (formerly Azure RTOS), enabling users to record operating-system events and perform analysis.

SystemView joins [Ozone](#) as SEGGER's second product to support ThreadX, further demonstrating SEGGER's commitment to providing professional development tools for all types of embedded-systems projects.

SystemView records events such as task switches, interrupts, and software timers, enabling users to visualize and analyze these events to gain deep insight into the runtime behavior of ThreadX-driven firmware. The ThreadX instrumentation covers all public API calls. Every function call, including its arguments and return values, is displayed alongside execution time and call nesting levels. Users can extend support to allow recording of performance markers, data samples, log messages, and more.

Additionally, in the interest of user-friendliness, SystemView can record the names of all contexts and objects in a system and display these names instead of an object's address.

"ThreadX is a well-respected RTOS for IoT devices and many other deeply embedded applications, and we are glad to see it find a new home at the Eclipse Foundation," says Johannes Lask, Product Manager for Software Development Tools at SEGGER. "SystemView enhances ThreadX with vital support for system inspection, validation, and verification. From our perspective, this is a critical enhancement that should be deployed across the entire development cycle."

ThreadX with SEGGER's instrumentation for SystemView is available at [GitHub](#). The changeset developed for the instrumentation can be applied to both local copies and older versions of ThreadX. More information on SystemView support for ThreadX can be found on SEGGER's [SystemView](#) overview page at www.segger.com.



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About SystemView

SystemView is a real-time recording and visualization tool for embedded systems. It reveals the true runtime behavior of an application, going far deeper than the system insights provided by debuggers. It is particularly effective when developing and working with complex embedded systems, and it can ensure a system performs as designed, track down inefficiencies, and find unintended interactions and resource conflicts.

SystemView's optimized target instrumentation enables data recording with cycle-accurate timestamps. All SystemView events are recorded, analyzed, and visualized while the target system is running, and they can be saved for documentation and analysis.

SystemView is available under SEGGER's [Commercial-Use License](#), which is perpetual, meaning the software can be used indefinitely, and there is no requirement for an annual subscription. SystemView is also available as a [SEGGER software tool](#) under [SEGGER's Friendly License](#). No registration is required to download the license, use is free of charge for educational and non-commercial purposes, and there are no limits on code size, features, or time on any platform during the evaluation period. For more information, please visit the [SystemView](#) page.

About SEGGER

Founded in 1992, SEGGER Microcontroller GmbH has over three decades of experience in embedded systems, producing cutting-edge [RTOS and software libraries](#), J-Link and J-Trace [debug and trace probes](#), a line of [Flasher in-system programmers](#), and [software development tools](#).

SEGGER's all-in-one solution [emPower OS](#) provides an RTOS plus a complete spectrum of software libraries for, among other things, communication, security, data compression and storage, user-interface software, and more. emPower OS gives developers a head start, allowing them to benefit from decades of experience in the industry.

SEGGER's professional embedded-development software and tools are simple in design, optimized for embedded systems, and support the entire embedded-system development process with their affordability, high-quality, flexibility, and ease of use.

SEGGER, with headquarters in Monheim am Rhein, Germany, also has an office in Boston, Massachusetts, United States, and branch operations in Silicon Valley, California, United States; Shanghai, China; and the United Kingdom. With distributors on most continents, SEGGER's full product range is available worldwide.

For more information on SEGGER, please visit www.segger.com.

Why SEGGER?

In short, SEGGER has a full set of tools for embedded systems, offers support throughout the entire development process, and has decades of experience. We are The Embedded Experts.

Furthermore, SEGGER software has no open-source or attribution licenses, and it can be integrated into any commercial or proprietary product—with no obligation to



disclose the combined source. SEGGER offers stability in an often-volatile industry, making it a highly reliable partner for long-term business relationships.

For additional information, please visit www.segger.com.

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