SEGGER releases V2.10 of awarding-winning emApps software

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The new release of emApps, SEGGER's innovative app-based software architecture for adding functionality to embedded systems, comes with new features such as the execution of apps at native code speed and enhanced flash management.

SEGGER announces major enhancements in the new version of emApps, its innovative software package that brings the flexibility of applications to embedded systems.



emApps: Flexibility for embedded systems

emApps offers an alternative to traditional fixed-firmware architectures by introducing a dynamic application layer that allows new functionality to be added to embedded devices without modifying the validated core firmware. Small applications, known as apps, execute in isolated memory spaces called sandboxes, providing a safe environment for enabling new capabilities, enhancements, and testing functions.

"Following the success of emApps at embedded world 2026, winner of the Best in Show Award, we're excited to introduce a new version with even more powerful features," says Rolf Segger, founder of SEGGER. "Apps created with emApps can be less than 100 bytes, which is remarkably small in an industry where RAM usage is a major consideration. Combined with straightforward integration and sandboxed testing, emApps gives developers every reason to give it a try. As is usual with our software we use it extensively ourselves. The SEGGER J-Link and the SEGGER Flasher would not be as successful as they are without the use of emApps."

Key enhancements

- **Optional native code generation:** Native code generation delivers native performance speed on ARM Thumb-2 and RISC-V RV32I architectures.
- **Expanded architecture coverage:** Accelerated interpreters, smaller in size and faster in execution than C equivalents, have been added for RV32I, RV32E, and RV64I architectures.
- **Direct execution from Flash:** Native code can be executed directly from Flash memory, helping minimize RAM requirements.
- **Integrated Flash management:** New capabilities simplify the management of native code stored in Flash.
- **Secure, on-target code generation:** The native code generator is integrated into the firmware. Code conversion takes place on the target, eliminating the need to

load externally generated native code while maintaining the sandbox security model.
- **Continued application isolation:** Native code remains fully sandboxed, preserving the protection that is central to the emApps architecture.
- **Space-efficient imports and exports:** An optional CRC-based identification mechanism can replace ASCII identifiers, reducing storage requirements while adding a layer of obfuscation.
- **Improved documentation:** Updated documentation helps developers understand and use the platform's capabilities more effectively.

The compiler and library have also been further enhanced.

Award-winning innovation

emApps received the Best in Show Award from Embedded Computing Design in the Dev Tools, Software & OS category at embedded world 2026. The award recognizes innovative products and technologies showcased at the event that demonstrate significant impact on the embedded-systems industry.

The recognition highlights the relevance of the emApps approach to a longstanding embedded-development challenge: how to introduce new functionality and enable extensive testing while maintaining a stable, secure, and validated firmware foundation.

By combining dynamic application deployment, controlled access to firmware capabilities, and sandboxed execution with the latest performance and testing enhancements, emApps provides developers and manufacturers with a flexible approach to evolving embedded products throughout their lifecycle.

Availability

For further information visit the SEGGER emApps page at www.segger.com.

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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 ISPs, and software development tools.

SEGGER's all-in-one solution emPower OS provides an RTOS and 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 embedded 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, 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, visit www.segger.com.

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