



IAR automates code quality assurance by integrating safety-certified multi-architecture static analysis tool

Uppsala, Sweden, June 18, 2024 – IAR, a leading provider of software solutions for embedded systems development, proudly announces the release of the TÜV SÜD-certified C-STAT static analysis tool for IAR Embedded Workbench for RISC-V V3.30.2, Functional Safety Edition. IAR's safety-certified C-STAT tool is now available in the Functional Safety editions of IAR Embedded Workbench for RISC-V, Arm, and Renesas RL78 architectures.

The TÜV SÜD certification guarantees that IAR C-STAT meets stringent functional safety standards. This certification includes a comprehensive Safety Guide and the new IAR C-STAT Compliance Report, detailing supported standards and rules.

Anders Holmberg, CTO of IAR, stated, "We are excited to release our TÜV SÜD-certified C-STAT static analysis tool for the latest IAR Embedded Workbench for RISC-V, Functional Safety edition. C-STAT automates code quality assurance for multi-architecture projects, supporting RISC-V, Arm, and Renesas RL78. The TÜV SÜD certification ensures C-STAT meets stringent safety standards, providing crucial compliance and reliability information. By integrating static analysis into CI workflows, our updated Functional Safety editions seamlessly enhance software quality and security across various projects and architectures."

The updated Functional Safety editions with TÜV SÜD-certified C-STAT enhance software quality and security by integrating static analysis to detect potential errors and coding standard violations early in the development process. This integration ensures compliance and saves valuable time and resources.

The latest IAR Embedded Workbench for RISC-V, Functional Safety edition, also adds support for the new RISC-V ISA extensions: Zc (Code Size Reduction), Zk (Crypto), Zfinx (Floats in integer registers), and CMO (Cache Management Operations). It features an auto-compressing assembler, optimized library functions, and enhanced code generation capabilities, providing developers with the necessary tools for effective software development.

IAR supports modern development practices, including Continuous Integration (CI) and automated builds, across platforms such as Linux (Ubuntu and Red Hat) and Windows. The toolchain integrates seamlessly into existing environments.

Automating software quality assurance is crucial for safe and secure embedded software. Certified tools like C-STAT help developers deliver reliable and high-performing software faster, ensuring compliance and system integrity. Choosing a pre-certified solution saves time and cost, allowing developers to focus on their code and application features.

Learn more about how C-STAT can enhance code quality for safety-critical applications at [IAR Functional Safety](#).



Press Release

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About IAR

At IAR, we provide world-leading software and services for embedded development, empowering companies globally to bring secure products that shape the future. Since its founding in 1983, our solutions have been instrumental in ensuring quality, security, reliability, and efficiency in the development of over one million embedded applications for a wide range of industries, including Automotive, Industrial Automation, IoT, MedTech, Military, and Public Safety sectors. With support for 15,000 devices from over 70 semiconductor partners, we are dedicated to fostering innovation and enabling our customers' success.

The company is headquartered in Uppsala, Sweden, with a global presence of sales and support offices strategically located across the world. IAR is an I.A.R. Systems Group AB subsidiary, listed on NASDAQ OMX Stockholm, Mid Cap (ticker symbol: IAR B). To learn more, visit us at www.iar.com.

Image Attachments

[IAR TUV](#)

Attachments

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