IAR Systems enables high-quality automotive applications with major updates in Renesas RH850 tools

IAR Embedded Workbench for Renesas RH850 strengthens stability and reliability in automotive embedded applications through C11 and C++14 support, stack protection, support for Renesas Smart Configurator and more

Uppsala, Sweden—September 19, 2018—IAR Systems®, the future-proof supplier of software tools and services for embedded development, presents a major update of its development tools for Renesas automotive-focused RH850 microcontrollers (MCUs). The latest version of the complete C/C++ compiler and debugger toolchain IAR Embedded Workbench® for Renesas RH850 offers boosted user experience and extended capabilities through a number of new features.

IAR Embedded Workbench for Renesas RH850 incorporates a compiler, a debugger, an assembler and a linker in one integrated development environment. It is available in several editions to suit different company needs, including a functional safety edition certified by TÜV SÜD according to IEC 61508, ISO 26262 and EN 50128. Renesas Electronics' RH850 automotive MCU family includes rich functional safety and embedded security features needed for advanced automotive applications. Version 2.10 of IAR Embedded Workbench for Renesas RH850 adds compliance with the latest C language standard ISO/IEC 9899:2011 and the latest C++ standard ISO/IEC 14882:2014, ensuring high-quality, future-proof code. Renowned for producing very efficient code, the IAR C/C++ Compiler™ in IAR Embedded Workbench for Renesas RH850 now supports stack protection and stack usage analysis functionality. Available as an add-on for the toolchain is the static analysis tool C-STAT®, which is now updated with a number of new checks. With these additions, developers building RH850-based applications are able to further strengthen code quality, stability and reliability in their embedded applications.

Automotive embedded applications are growing in complexity, which means it can be challenging to make a correct setup of peripherals from scratch. The Renesas Smart Configurator is a tool for combining software, automatically generating control programs for peripheral modules, and pin setting from the GUI with built-in cross-checks to avoid potential contention with multiplexed functions. In version 2.10 of IAR Embedded Workbench for Renesas RH850, automated code generation from Renesas Smart

Configurator is made possible through the straight-forward project connection functionality.

More information about IAR Embedded Workbench for Renesas RH850 is available at www.iar.com/iar-embedded-workbench/tools-for-rh850/.

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Editor's Note: IAR Systems, IAR Embedded Workbench, Embedded Trust, IAR Connect, C-SPY, C-RUN, C-STAT, IAR Visual State, IAR KickStart Kit, I-jet, I-jet Trace, I-scope, IAR Academy, IAR, and the logotype of IAR Systems are trademarks or registered trademarks owned by IAR Systems AB. All other product names are trademarks of their respective owners.

IAR Systems Contacts

AnnaMaria Tahlén, Media Relations, IAR Systems

Tel: +46 18 16 78 00   Email: annamaria.tahlen@iar.com

Stefan Skarin, CEO and President, IAR Systems

Tel: +46 18 16 78 00   Email: stefan.skarin@iar.com

About IAR Systems

IAR Systems supplies future-proof software tools and services for embedded development, enabling companies worldwide to create the products of today and the innovations of tomorrow. Since 1983, IAR Systems' solutions have ensured quality, reliability and efficiency in the development of over one million embedded applications. The company is headquartered in Uppsala, Sweden and has sales and support offices all over the world. Since 2018, Secure Thingz, a provider of advanced security solutions for embedded systems in the IoT, is part of IAR Systems. IAR Systems Group AB is listed on NASDAQ OMX Stockholm, Mid Cap. Learn more at www.iar.com.