IAR Systems and Renesas Electronics Europe announce safety-compliant development tools for RX

IAR Embedded Workbench for RX is available with certification from TÜV SÜD according to IEC 61508 and ISO 26262

Uppsala, Sweden/Düsseldorf, Germany—November 26, 2013—IAR Systems®, the leading provider of embedded development tools, and Renesas Electronics Europe have teamed up to offer a development toolchain for Renesas' 32-bit RX microcontroller platform that facilitates compliance with the international umbrella standard for functional safety IEC 61508.

Functional safety is one of the most important features in industrial automation systems today. To ensure functional safety, system developers have to consider development tools as an integral part of the system certification in addition to the normal development. The proof of compliance for the tools increases cost and time of development. To solve this problem, IAR Systems now provides a certified version of the complete compiler and debugger toolchain IAR Embedded Workbench® for RX.

The build chain of IAR Embedded Workbench for RX has been tested and approved according to the requirements on support tools put forth in IEC 61508, as well as the standard for automotive safety-related systems ISO 26262. The quality assurance measures applied by IAR Systems and the included Safety Manual allow application developers to use IAR Embedded Workbench for RX in safety-related software development for each Safety Integrity Level (SIL) according to IEC 61508 and each Automotive Safety Integrity Level (ASIL) of ISO 26262 without further tool qualification. IAR Embedded Workbench for RX is certified by TÜV SÜD.

"We are glad to be teaming up with IAR Systems as a software alliance partner for the leading embedded development toolchain IAR Embedded Workbench for RX," says Niels Trapp, Senior Manager at Renesas Electronics Europe. "The certified tool suite helps our customers during the certification process and efficiently supports our RX microcontrollers for safety applications."

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"We have supported customers in different industries developing safety-related functionality for many years, and together with Renesas we now take the offer to the next level," comments Anders Holmberg, Product Manager for Functional Safety, IAR Systems. "The certified toolchain and the exhaustive functional safety support agreement that comes with it will simplify the certification process for developers of industrial automation systems and ensure their tools investment is protected through the entire product life cycle."

The certified version is delivered with a functional safety certificate, as well as a safety report from TÜV SÜD and a Safety Manual. With the certified tools, IAR Systems provides a Functional Safety Support and Update Agreement with guaranteed support for the sold version for the longevity of the contract. In addition to prioritized technical support, the agreement includes access to validated service packs and regular reports of known deviations and problems. More information is available at www.iar.com/safety.

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About IAR Systems

IAR Systems is the world's leading supplier of software tools for developing embedded systems applications. The software enables over 19,000 large and small companies to develop premium products based on 8-, 16-, and 32-bit microcontrollers, mainly in the areas of industrial automation, medical devices, consumer electronics, telecommunication, and automotive products. IAR Systems has an extensive network of partners and cooperates with the world's leading semiconductor vendors. IAR Systems Group AB is listed on NASDAQ OMX Stockholm. For more information, please visit www.iar.com

About Renesas Electronics Europe

Renesas Electronics is the world's number one supplier of microcontrollers and a premier supplier of advanced semiconductor solutions, including system-on-chip and a wide range of discrete analogue and power devices. Established in 2010, Renesas Electronics combines the collective semiconductor expertise of Hitachi, Mitsubishi Electric and NEC Electronics, encapsulating more than 200 years' experience. Headquartered in Japan, Renesas Electronics has subsidiaries in 20 countries worldwide. More information is available at: www.renesas.eu