Product News

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IAR Systems extends IEC 61508- and ISO 26262-certified tools offering for Renesas Electronics

Developers of safety-critical applications based on the Renesas RZ, RL78 or RX Family can leverage the excellent performance of IAR Embedded Workbench while ensuring compliance with safety standards

Renesas DevCon, Orange County, California—October 12, 2015—IAR Systems® announces that its wide offering of certified development tools will also cover Renesas' RZ family of microprocessors and the R-IN32M3 and R-IN32M4 Series. These additions complement the already available functional safety offerings for the RL78 and RX microcontroller families.

"With functional safety at the top of the requirements lists for many embedded systems, the task of system certification is becoming more and more relevant," says Anders Holmberg, Product Manager for Functional Safety, IAR Systems. "This potentially costly process includes proof of compliance for the tools used. By using pre-certified development tools from IAR Systems, companies can simplify their certification process and save time as well as money, as well as protect their tools investment through the entire product life cycle."

A new certified version of IAR Embedded Workbench® for ARM® will be available in Q4 2015 and adds support for RZ Family of microprocessors, and the R-IN32M3 and R-IN32M4 Series of Industrial Ethernet controllers. The support covers the RZ/A ARM Cortex®-A9 MPUs for automotive, consumer and industry applications with demands for high-performance human/machine interfaces, as well as the ARM Cortex-R4-based RZ/T1 Group, which is a factory automation solution with built-in industrial network functionality for use in industrial control equipment.

IAR Systems' safety offering also includes certified tools for Renesas' RL78 and RX microcontroller families. The RL78 microcontrollers are designed for use in power-sensitive applications such as connected devices within automotive, healthcare and smart energy. The RX microcontrollers are used in a broad range of applications including for example industrial, consumer, and office automation.

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The build chains of IAR Embedded Workbench for ARM, RX and RL78 have been tested and approved according to the requirements on support tools put forth in the international umbrella standard for functional safety 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 the tools 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. For ARM, the certification also covers the European railway standard EN 50128. IAR Embedded Workbench is certified by TÜV SÜD.

The certified versions are 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 provides developers of embedded systems with world-leading software tools for developing competitive products based on 8-, 16-, and 32-bit processors. Established in Sweden in 1983, the company has over 46,000 customers globally, 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.