



Product News

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IAR Systems and Secure Thingz present embedded security compliance solution for Renesas RX

Compliance Suite includes security development tools and practical guidance, delivering a shrink-wrapped solution for organizations to ensure security legislation compliance in their IoT applications

Cambridge, United Kingdom / Uppsala, Sweden—May 27, 2021—IAR Systems®, the future-proof supplier of software tools and services for embedded development, and Secure Thingz, an IAR Systems Group company, today presented Compliance Suite for Renesas RX. Compliance Suite provides developers and organizations with the security development tools, practical guidance and knowledge needed to rapidly build applications that are compliant with security legislation, such as the Consumer IoT Security Standard EN 303 645, UK & Australian 13 Best Practices, and the evolving US Cybersecurity Improvement Act (NISTIR 8259). The Compliance Suite for Renesas RX is specifically designed for applications based on the Renesas RX family of microcontrollers (MCUs).

Many Renesas RX MCUs include the Trusted Secure IP (TSIP) technology, which offers multiple security features. The Renesas RX65N with TSIP was the first general-purpose MCU to achieve Cryptographic Module Validation Program (CMVP) Level 3 certification from the Federal Information Processing Standard Publication (FIPS) 140-2 by the US National Institute of Standards and Technology (NIST). This integrated technology can be leveraged through Secure Thingz technology, achieving compliance with key requirements of the EN 303 645 standard.

“The Renesas RX MCU equipped with Trusted Secure IP module is the world’s first general-purpose MCU to obtain NIST FIPS 140-2 CMVP Level 3 certification. By choosing to use the certified RX MCU, customers can more easily meet security requirements. The Compliance Suite for RX ensures all customers can quickly gain practical implementation knowledge and smoothly tackle development to realize their solution while ensuring security compliance,” said Daryl Khoo, Vice President, Marketing, IoT Platform Business Division at Renesas.

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Compliance Suite for Renesas RX delivers a set of security development tools that are all integrated with the development toolchain IAR Embedded Workbench. With the security development tool C-Trust, developers are able to automatically deliver secure, encrypted code. Combined with Preconfigured Security Contexts, which define the configuration of a trusted execution environment, developers are able to ensure they remain in control of system operation today and into the future. The Preconfigured Security Contexts included with Compliance Suite are designed for Renesas RX MCUs. In addition, Compliance Suite for Renesas RX includes practical guidance through a package of courses led by Secure Thingz' in-house security experts, covering topics such as introduction to embedded security and available tools, and legislation overview, as well as hands-on guides on how to meet security compliance.

With new legislation for IoT security and privacy rapidly being introduced globally, compliance according to these regulations is a challenge for all organizations and developers working with embedded applications. The IoT Security Foundation, a non-profit industry association where Secure Thingz is a founding member, has developed an IoT Security Compliance Framework, enabling organizations to implement a self-certification methodology that covers 13 Best Practices for Security and Secure by Design guidelines. The Consumer IoT Security Standard EN 303 645, based on the 13 Best Practices, is widely regarded as the security benchmark for Consumer IoT. Both the standard and the guidelines contain core security requirements for applications, which developers should achieve. Compliance Suite from IAR Systems and Secure Thingz enables organizations to rapidly build applications with these core requirements included, providing security for existing applications as well as adding security guidelines for new functionality to future proof next-generation embedded applications.



More information is available at www.iar.com/cs-rx.

Ends

Editor's Note: IAR Systems, IAR Embedded Workbench, Embedded Trust, C-Trust, 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/Secure Thingz Contacts

AnnaMaria Tahlén, Media Relations & Content Manager, IAR Systems

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

Tora Fridholm, Chief Marketing Officer, IAR Systems

Tel: +46 18 16 78 00 Email: tora.fridholm@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, the global domain expert in device security, embedded systems, and lifecycle management, is part of IAR Systems Group AB. IAR Systems Group AB is listed on NASDAQ OMX Stockholm, Mid Cap. Learn more at www.iar.com.

About Secure Thingz

Secure Thingz is the global domain expert in device security, embedded systems, and lifecycle management. In 2018, the company was acquired by IAR Systems Group AB, the future-proof supplier of software tools and services for embedded development. Secure Thingz is focused on delivering advanced security solutions into the emerging industrial Internet of Things, critical infrastructure, automotive and other markets. The Secure Deploy™ architecture has been developed to solve the major security issues challenging the IoT. Secure Thingz solutions ensure a cost-efficient root of trust in low-cost microcontrollers to deliver a core set of critical services through the product lifecycle, alongside secure deployment, production and update infrastructure. Secure Thingz is a founding member and Executive Board member of the Internet of Things Security Foundation (www.iotsecurityfoundation.org), the leading global organization for IoT Security.