How foreseeing a smarter future generates mind-blowing technology innovations

New at sps ipc drives 2014: Comprehensive VxWorks-based Cyber-Security Solution

Karlsruhe, Germany – **Among the many exciting innovations that Wibu-Systems is presenting at sps ipc drives 2014, booth 660, hall 7, you'll also find CodeMeter® Security: an Embedded Security Kit that will safely assist intelligent device manufacturers in their transition towards the Internet of Things**. CodeMeter Security is actually a complementary hardware-based add-on to the Security Profile for VxWorks® 7, which all visitors can see in action at Wind River®, booth 305, hall 6. Together, the two products represent a significant milestone for the whole community of VxWorks users, who can now avail themselves of integrity protection, authenticity, know-how protection, digital certificates, copy protection, license management, and hardware-based key storage management through a unique and scalable solution.

Such an outstanding result, one that is ready to accelerate the path to Industry 4.0, started to take shape four years ago, when Oliver Winzenried, CEO of Wibu-Systems, opened the doors to the integration of CodeMeter, the all-in-one solution for protection, licensing, and security, with real-time operating systems. VxWorks is notably the most widely used commercial RTOS, and therefore the ideal candidate to explore this direction. The cooperation between the two companies initially produced an Embedded Development Kit that was introduced in 2012. Since then, the amplitude of the project has expanded much further, when earlier this year Wind River introduced the next-generation version of its VxWorks platform; VxWorks 7 boasts a modular, scalable architecture.

This is exactly what the global market was asking for; as manufacturers of embedded systems harness the opportunities created by the IoT, they demanded dedicated solutions targeting their specific fields, as well as top-notch secu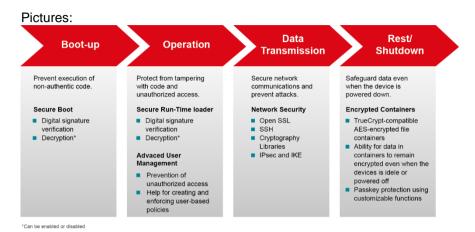rity features that would safeguard Cyber-Physical Systems from the rising number of attack vectors. Threats like the cloning or the imitation of a machine, code tampering, unauthorized physical and logical access, sabotage, intellectual property piracy and product counterfeiting are skyrocketing, now that CPS's are collaborating more and more in large scale networks. To top it off, the possibility of distributing VxWorks applications through flexible licensing schemes enables new business models for industry management leaders.

"Just like factories are becoming smarter and globally intertwined, we wanted our business model with Wind River to be strategically designed to have a global impact," says Oliver Winzenried. "The teams that both companies have activated the most at this stage are located in the US, China and Germany, but we expect to involve more channel partners as this benefits of the Security Profile prove their value in the field."

"With the Internet of Things, the needs around security are growing more complex as devices and systems are being exposed to more vulnerabilities than ever before," said Dinyar Dastoor, vice president of product management at Wind River. "Wind River is very pleased with our close collaboration with Wibu-Systems to offer manufacturers of embedded systems an all-encompassing security solution that delivers an optimal way to protect connected devices, data, and IP."

Pictures:

Boot-up	Operation	Data Transmission	Rest/ Shutdown
Prevent execution of non-authentic code.	Protect from tampering with code and unauthorized access.	Secure network communications and prevent attacks.	Safeguard data even when the device is powered down.
Secure Boot ■ Digital signature verification ■ Decryption*	**Secure Run-Time loader** ■ Digital signature verification ■ Decryption* **Advaced User Management** ■ Prevention of unauthorized access ■ Help for creating and enforcing user-based policies	**Network Security** ■ Open SSL ■ SSH ■ Cryptography Libraries ■ IPsec and IKE	**Encrypted Containers** ■ TrueCrypt-compatible AES-encrypted file containers ■ Ability for data in containers to remain encrypted even when the devices is idele or powered off ■ Passkey protection using customizable functions

*Can be enabled or disabled

Picture 1: Key Features of Security Profile for VxWorks.

Picture 2: CodeMeter Security includes the protection hardware CmDongles.

Press contact:
WIBU-SYSTEMS AG
Daniela Previtali, Global Marketing Manager
Tel. +49 721 9317235 / +39 035 0667070
Mail: daniela.previtali@wibu.com
Internet: www.wibu.com

25 years of Perfection in Protection, Licensing and Security

WIBU-SYSTEMS AG (WIBU®), a privately held company founded by Oliver Winzenried and Marcellus Buchheit in 1989, is an innovative security technology leader in the global software licensing market.
Wibu-Systems' comprehensive and award winning solutions offer unique and internationally patented processes for protection, licensing and security of digital assets and know-how to software publishers and industrial manufacturers who distribute their applications through PC-, embedded-, mobile- and cloud-based models.

Media graphic resources available at: http://www.wibu.com/photo-gallery.html