

New COQOS release benefits from avionics certified micro-kernel

Demonstrator shows Android and AUTOSAR on the same processor

Berlin, 17th of January 2011. OpenSynergy presented the new version of the automotive software framework COQOS on the International Consumer Electronics Show 2011 (CES). The new release of COQOS (release 10.12) now includes the micro-kernel of SYSGO's PikeOS. This micro-kernel has been designed for safety- and security-critical applications and has already been certified according to stringent avionics standards such as DO-178B. Therefore COQOS now can be applied in automotive ECUs with increased requirements on safety and security. The existing certifications of the underlying micro-kernel PikeOS from SYSGO will facilitate compliance to automotive safety and security standards.

As recently as September 2010 the two companies OpenSynergy GmbH and SYSGO AG had started their cooperation. OpenSynergy's General Manager Stefaan Sonck Thiebaut indicates that this cooperation has led to first results within a very short period of time: "This very fast joint product release has shown that both companies have complementary technology and that the development teams work together very effectively". As Michael Tiedemann, Chief Executive Officer at SYSGO, said: "Through our cooperation with OpenSynergy, the automotive industry has now access to our technology and can benefit from its proven track-record in avionics."

For infotainment applications, COQOS now supports Android 2.1 in addition to several other Linux distributions. On the automotive side, COQOS comes with an AUTOSAR 3.1 run-time environment and tooling.

COQOS release 10.12 has added support for the Freescale i.mx51 and i.mx53 application processors, which are based on an ARM Cortex A8 core. Especially the i.mx53 application processor, which integrates a CAN controller, is well suited for a COQOS-based single-chip solution. Using COQOS an AUTOSAR CAN-Stack can run together with an Android infotainment system. Although both run on the same processor, they are well separated: on booting, the AUTOSAR functionality is available very quickly and keeps running reliably and independently from the Android world.

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About OpenSynergy

OpenSynergy develops and markets software products for the automotive industry. Our main product COQOS makes it possible to integrate consumer electronics technology (based on Linux or Android) safely and securely into an AUTOSAR-compatible car environment. Because of the modular approach of COQOS, it can be employed in head units, instrument clusters and for connectivity or driver assistance systems. In addition, OpenSynergy offers consulting and engineering services for software development and software architecture in the sectors of infotainment, connectivity and AUTOSAR.

About SYSGO

SYSGO provides operating system technology, middleware, and software services for the real-time and embedded market. A differentiating capability of SYSGO is the SSV (Safe and Secure Virtualization) platform PikeOS, a paravirtualization operating system which is built upon a small, fast, and safe microkernel. It supports the co-existence of independent operating system personalities on a single platform, including ELinOS, SYSGO's embedded Linux distribution. SYSGO supports international customers with services for embedded Linux, real-time capabilities and certification for safety-critical applications. Markets include Aerospace & Defense, Industrial Automation, Automotive, Transportation and Network Infrastructure. Customers include Airbus, EADS, Thales, Daimler, Raytheon, B. Braun, Rheinmetall, Rockwell-Collins, Nokia Siemens Networks, and Rohde & Schwarz. SYSGO has facilities in Germany, France, The Czech Republic and North America, and offers a global distribution and support network, including Europe and the Pacific Rim. For more information please visit www.sysgo.com.

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