

Avionics safety technology finds its way into cars

German software companies join forces for the automotive market

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SYSGO AG and OpenSynergy GmbH, two German software companies, have signed an exclusive cooperation agreement targeting the automotive market. They will join forces to provide carmakers with a software platform that already meets both avionics safety standards and AUTOSAR (Automotive Open System Architecture) requirements. Rolf Morich, general manager at OpenSynergy, said in a joint press release, “The high quality standards of SYSGO’s technology enable us to provide a universal operating system for carmakers and their suppliers, one that bridges the gap between car and consumer electronics while meeting the high safety standards of the avionics industry.”

COQOS, OpenSynergy’s core product, provides a solution for integrating various applications with differing requirements onto one single piece of hardware, while guaranteeing full compatibility with AUTOSAR. Through the use of virtualization technology from SYSGO, COQOS ensures clear delineation between the various subsystems, eliminating any possibility of interference among them. COQOS allows Linux-based solutions like Android to run alongside advanced driver assistance systems or AUTOSAR applications.

SYSGO AG is pleased to have found in OpenSynergy a partner that allows them to tap into the automotive market. Michael Tiedemann, chief executive officer at SYSGO, said “OpenSynergy’s tremendous know-how and excellent reputation in the automotive industry will help us to implement our strategy quickly: to introduce our reliable avionics software PikeOS to the automotive industry.”

In the new product from SYSGO and OpenSynergy, COQOS is built on top of PikeOS from SYSGO. PikeOS was developed from the start for safety-critical applications and is used in systems certified in accordance with the most stringent safety standards, such as DO-178B. The robust microkernel-based operating system has already been deployed in Airbus A350XWB and A400M aircrafts.

The integration of COQOS and PikeOS results in a highly robust platform. Using avionics technology enables all the latest safety standards of the automotive industry to be met, including ISO 26262. “This joint platform will revolutionize automotive safety electronics,” commented Morich.

About OpenSynergy GmbH

Based in Berlin, OpenSynergy develops and markets software products for the automotive industry. Its modular software system, COQOS, uses virtualization technology to allow infotainment and/or AUTOSAR applications to run safely on the same piece of hardware. COQOS's modular approach allows it to be used in head units, instrument clusters and body control modules. OpenSynergy also provides consulting and engineering services for software development and architecture in the fields of infotainment, connectivity and AUTOSAR. For more information please visit www.opensynergy.com.

SYSGO AG

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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