

OpenSynergy launches COQOS operating system at CeBIT 2009

First AUTOSAR-conform operating system on
Intel® Atom™ Processor (x86 platform)

Berlin, 3rd of February OpenSynergy is going to launch its first release of their car operating system COQOS at CeBIT at Intel Pavillon P33. COQOS is based on virtualization technology which allows communication between different Infotainment applications and AUTOSAR applications on one single hardware. This enables car manufacturers to reduce the number of ECUs, minimize development costs and allows the implementation of new functions on a single SoC. In the first release COQOS comes with a Development Suite. At CeBIT OpenSynergy will present COQOS on an evaluation board based on the Intel Atom processor technology x86. Currently several car manufacturers are already evaluating the use of the COQOS platform.

COQOS Architecture

The heart of COQOS is the Micro Operating System (μ OS) shown in picture 1 which handles the partitioning and the communication between the Infotainment and AUTOSAR world. The partitioning is enabled by virtualization which is a common technology in the IT industry. The small μ OS plays the role of an AUTOSAR OS in a standard AUTOSAR compliant basic software. For safety reasons in that concept the Infotainment system will be considered as the Guest System. This ensures the independency of the Infotainment applications from the AUTOSAR environment of the car. In COQOS an AUTOSAR Basic Software and a 100% AUTOSAR conform RTE is implemented to handle communication. COQOS on the Infotainment side currently supports Linux-based systems. More information on the architecture can be found at www.opensynergy.com.

COQOS Benefits

The architecture of COQOS is well defined, focuses on automotive standards and can be used for different use cases. The architecture of COQOS integrates Infotainment applications with AUTOSAR applications on a single hardware. For a car manufacturer this supports the goal to reduce the number of ECUs and to save costs in the long-term. A head unit supplier can shorten its development cycle and integrate new innovative functions on the head unit much faster. "COQOS meets different market trends: Reducing cost in system development and hardware components notwithstanding increasing demand in automotive functions. Mainly the increasing versions of cars underline the need of standardizing software development methods and processes. The answer to it is COQOS which consequently uses AUTOSAR and enables the implementation of Infotainment functionality into the standard. We think that modern processors, as it is the Intel Atom processor, are going to play an important role in that constellation", says Frank-Peter Böhm, CEO of OpenSynergy.

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ECO Partnership

The OpenSynergy's ECO Partner Program requires partnering companies to integrate their software or hardware solutions with the car operating system COQOS. The main goal is to create as much benefit as possible in one adequate solution for later use. OpenSynergy helps Software application providers and hardware manufacturers to deliver comprehensive and latest solutions to their customers. OpenSynergy gives partner access to COQOS on different levels. An "ECO Partner" gets basic access to products and installation support of OpenSynergy. A "Premium ECO Partner" is a company which perfectly fits into OpenSynergy's strategy. All partner at the premium level are expected to port COQOS as well as promote the joint solution to potential customers.

"To target the needs of Tier 1 suppliers and car manufacturers OpenSynergy invites software and hardware vendors to offer a whole solution to the industry by integrating their solution to COQOS. By engaging early with our partners we are able to offer our customers solutions as soon as new hardware or software becomes available. This reduces the time-to-market.", says Rolf Morich, COO of OpenSynergy. Starting at CeBIT software application provider and hardware manufacturer can contact OpenSynergy directly and register for an ECO Partnership with OpenSynergy.

About OpenSynergy

OpenSynergy is based in Berlin. The company employs its long-term experience in the automotive industry to foster innovative concepts for next generation electronic car systems. Beside the development of the car operating system COQOS OpenSynergy offers Engineering Services for software development, project management and technical consulting in the fields of AUTOSAR, Infotainment and Connectivity.

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