

Analyzing Software Components for AUTOSAR Conformity

Berlin, 13 April 2010 OpenSynergy GmbH introduces a new product from the COQOS tool chain: COQOS-tC. With this product AUTOSAR conformity both of the software components and the RTE and subordinate layers can be tested. This conformity is decisive as to whether or not an AUTOSAR application can be integrated in a control unit. Technology Officer, Stefaan Sonck Thiebaut, assures in a release: “If the manufacturers are able to sufficiently control conformity, they can reuse software modules at any time and in any vehicle. This will save them much time and costs in the future.”

The central content of the AUTOSAR concept consists of a clear separation between the applications (AUTOSAR software components) and the subordinate standardized basic software modules of any AUTOSAR-conform control unit. This means, the applications developed as AUTOSAR software components are independent from the platform and can be integrated at any point desired in the vehicle. Furthermore, they can be reused in other vehicle models, even in those with different network architectures.

However, to be able to benefit from this advantage, manufacturers and suppliers will need to face the challenge of ensuring the unrestricted AUTOSAR conformity of their products. At this point the new member of the COQOS tool family of the Berlin software company, OpenSynergy, comes to the aid.

COQOS-tC uses the description of the AUTOSAR system (ARXML) and the traces it receives from the RTE as input. These traces describe what happens at the interface between the RTE and the software components. They can be generated directly from the VFB tracing of the RTE. COQOS-tC generates a complete analysis of the tested model and the observed characteristics from this information and checks its conformity with the AUTOSAR requirements.

This means, COQOS-tC can be used to check whether both the AUTOSAR software components as well as the total AUTOSAR infrastructure (considered to represent the black box) conform to the AUTOSAR standard.

Sonck Thiebaut states: “So far there is no other tool on the world-wide market able to check AUTOSAR compliance with this complexity and reliability.”

PRESS RELEASE

About OpenSynergy

OpenSynergy corporation with corporate offices in Berlin develops and markets software products for the automotive industry. The software module set COQOS permits the reliable execution of infotainment or/and AUTOSAR applications using only one set of hardware via virtualization technology. Because of the modular approach of COQOS, it can be employed in head units, instrument clusters as well as body control modules. In addition, OpenSynergy offers consulting and engineering services for software development and software architecture in the sectors of infotainment, connectivity and AUTOSAR.

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