COQOS Hypervisor compliant with ASIL-B

New Release Appropriate for Safety-relevant Applications

Berlin, 17. October 2017. OpenSynergy announces the release of its latest hypervisor technology: COQOS SDK v9.1. This virtualization platform is centered on the ASIL-B COQOS Hypervisor that provides Freedom from Interference as defined by ISO26262 - empowering integrators to use applications of mixed criticality. Since the hypervisor has been developed with a safety compliant software development process and toolchain, the COQOS SDK eases the task of integration for ASIL-B use cases and provides a powerful solution to run multi-purpose systems on a single platform.

At the heart of COQOS SDK, COQOS Hypervisor provides high efficiency and functional safety for the specific requirements of automotive applications. It creates virtual machines (VMs) that can host multi-purpose operating systems such as Linux or Android and real-time operating systems. This makes it possible to perform functions with different requirements on real-time behavior or which have been developed according to different safety levels on a single system-on-chip (SoC). Moreover, the COQOS Hypervisor ensures freedom from interference between the VMs and allows controlled communications between them.

The COQOS Hypervisor has been developed as a Safety Element out of Context (SEooC) in accordance with the ASIL B requirements of ISO 26262:2011. A SEooC is a safety-related element which is not developed for a specific system or vehicle. ISO 26262 applies to the electrical and/or electronic (E/E) systems in mass production passenger cars. Safety in this case means functional safety, which is concerned with developing products that are distinguished by the absence of unreasonable risk.

The integration of the COQOS SDK into a component or a system developed according to ISO26262 is supported by the COQOS Safety Kit. The Safety Kit includes a Safety Manual which describes how to use the hypervisor safely. It also contains the COQOS Safety Validator that ensures that the configuration is safe and correct. Moreover, the Safety Kit comes with evidence of compliance with ASIL-B, and summary reports of the development process, tool confidence analysis and test results.

"The ASIL-B compliance is an important milestone in our COQOS history," expresses OpenSynergy's CEO Stefaan Sonck-Thiebaut, "not just because the COQOS Hypervisor is developed following the ASIL-B SEooC guidelines but, more importantly, because we derived the assumed safety requirements and the product's architecture from real automotive use cases."

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About OpenSynergy

OpenSynergy is a high-tech company specializing in embedded automotive software for in-car cockpit solutions. The core products are the modular software development kit COQOS SDK and the leading Bluetooth™ stack Blue SDK.

Our products enable the convergence of instrument cluster, head unit, driver assistance and connectivity systems. Essential technologies are virtualization and Open Source software. Our solutions comply with requirements of standards like AUTOSAR and Bluetooth™. By doing, so we pave the way for autonomous driving.

OpenSynergy is an independently managed company headquartered in Berlin with further locations in Munich and the U.S. We continue to grow through the strong demand for our products. Our company's team consists primarily of highly qualified engineers. Our corporate culture is inspired by the international character that defines our employees, partners and customers.

Read more on www.opensynergy.com

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