

Safe and Certified

First hypervisor complying to the new version of ISO 26262

Berlin, April 10, 2019. Yesterday, OpenSynergy received the certificate from TÜV SÜD confirming the compliance of OpenSynergy's COQOS Hypervisor to ISO 26262:2018 ASIL-B. COQOS Hypervisor is a Type-1 hypervisor for the ARMv8 architecture developed specifically to support automotive use-cases such as cockpit and domain controllers. OpenSynergy's CEO Stefaan Sonck Thiebaut announces in OpenSynergy's latest press release: "This certificate confirms the high quality of our product and makes it much easier for our customers to use the COQOS Hypervisor in their safety relevant systems." COQOS Hypervisor is the first hypervisor that has been certified to the second version of the ISO 26262 standard.

OpenSynergy specializes in embedded automotive software and its hypervisor technology has been in mass production since 2014.

The COQOS Hypervisor is a Type-1 hypervisor for automotive applications. It allows customers to build highly compartmentalized systems that can be tailored to their specific requirements. The COQOS Hypervisor has been developed for the ARMv8 architecture, supports many automotive SoC's and takes full advantage of hardware virtualization.

Current series development with COQOS Hypervisor includes cockpit controllers –integrating infotainment and a digital instrument cluster–, infotainment systems, rear-seat entertainment, connectivity devices and gateways.

Some of these use-cases include safety-relevant functionalities, such as displaying tell-tales on the instrument cluster. In these cases, the hypervisor must provide freedom from interference between the safety and non-safety virtual machines. This is why OpenSynergy has developed COQOS Hypervisor as a Safety Element out of Context (SEooC) according to ISO 26262 ASIL-B using safety requirements based on real automotive use-cases.

The examination and certification by TÜV SÜD Rail GmbH has now confirmed that COQOS Hypervisor complies to the new version of the ISO 26262 standard (ISO 26262:2018) at the ASIL-B level. The new version of the ISO 26262 standard has additional expectations, e.g. on the management of the security of the product. COQOS Hypervisor is the first hypervisor that has been certified according to this new version.

COQOS Hypervisor is part of OpenSynergy's package COQOS Hypervisor SDK. The SDK includes pre-integrated guest operating systems (such as Linux and Android), standards-based sharing of devices between the virtual machines and pre-configured automotive use-cases. For the cockpit controller use-case, COQOS Hypervisor SDK includes OpenSynergy's Safe Instrument Cluster technology ensuring that tell-tales are rendered correctly when using a Linux-based instrument cluster. In December 2018, TÜV SÜD already had confirmed that this architecture satisfies ISO 26262 ASIL-B.

PRESS RELEASE

Stefaan Sonck Thiebaut states, “The newest certificate for the COQOS Hypervisor combined with the Safe Instrument Cluster technology gives customers a new approach to build safe cockpit controllers using open and standards-based technologies.”

The certification will be renewed regularly.

About OpenSynergy

OpenSynergy provides embedded software products for the next generation of vehicles. Our hypervisor and communication products pave the way for an integrated driving experience.

The virtualization platform COQOS Hypervisor SDK supports the convergence of software-based vehicle functions with different requirements on safety and security. It is designed for multi-display cockpit controllers, smart antennae or powerful domain controllers using a mix of AUTOSAR technology and open solutions, such as Linux and Android.

OpenSynergy’s communication stacks allow the wireless connection between the car and the cloud or between the car and mobile devices. OpenSynergy’s Blue SDK is the reference bluetooth implementation for many OEMs around the world.

Our engineering services complement the products.

Read more on www.opensynergy.com

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