Virtualized In-Vehicle Android

Parrot Faurecia Automotive integrates OpenSynergy hypervisor technology in its NIS 8X00 infotainment scalable platform

Berlin/Paris, July 5th, 2018. Parrot Faurecia Automotive, a leader in automotive infotainment and connectivity solutions and OpenSynergy, a specialist in automotive hypervisor technology, are glad to announce their new partnership. Parrot New Infotainment System (NIS) 8X00 will be equipped with OpenSynergy's COQOS Hypervisor SDK to become a fully scalable platform. Thanks to this technology, the NIS 8X00 can simultaneously run several operating systems on a single SoC (System-on-Chip) – effectively and safely separating Android from safety functions such as displaying tell-tales on the instrument cluster display. As a result, the NIS 8X00 can drive 2 or more displays at once: the digital instrument cluster, the center stack, etc.

OpenSynergy's COQOS Hypervisor is part of the COQOS Hypervisor SDK that provides virtualization for the car. This highly efficient and reliable hypervisor has been built to meet the specific requirements of demanding automotive applications. It creates virtual machines that can host operating systems like Linux and Android, and also real-time operating systems such as AUTOSAR. It is also able to handle multi-OS window composition on several displays: the center display features an Android window while on the instrument cluster display, RTOS and Linux windows are composed together with an Android window (showing navigation, current music or phone call) – a market first!

Thanks to the COQOS Hypervisor, it is possible to run functions with different requirements regarding real-time behavior and functional safety simultaneously on a single SoC. The Android OS has been virtualized on a powerful SoC, whose GPU has also been entirely virtualized. This Type-1 hypervisor runs directly on the hardware. Its design has been developed corresponding to ISO 26262 requirements. It also prevents interference from the virtual machines.

The NIS 8X00 is a full-fledged infotainment system running the latest version of Android with a complete feature set: analog & digital radio, navigation, hands-free telephony, voice recognition, smartphone projected modes (Apple CarPlay, Android Auto), connected services, multimedia content and a very wide range of apps. The NIS 8X00 is open, scalable and can be upgraded wirelessly: from Android Oreo to Android P, Q, etc.

"The hypervisor technology enables us to achieve an important milestone in the scalability of our NIS 8X00 infotainment platform. We are glad to report that our first NIS 8200 will start production in the latter half of 2019 for a European premium car maker" says Frédéric BIÉRI, Sales & Marketing Director of Parrot Faurecia Automotive.

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About OpenSynergy

OpenSynergy provides software products for the next generation of vehicles. Our hypervisor platforms and the product line for vehicle communication pave the way for an integrated driving experience. The company is a market leader in the automotive software industry, especially in the area of hypervisors and Bluetooth.

Our virtualization technologies enable customers to integrate numerous software systems with different requirements on a single hardware, for use cases, such as, Cockpit Controllers, Body Controllers, Smart Antenna, Telematics Units or Multi-Display Entertainment.

OpenSynergy's vehicle communication platforms ensure a reliable, high-quality connection between devices within the car or between the car and the outside world. First and foremost, this includes OpenSynergy's Bluetooth Stack Blue SDK, which is used worldwide a million times over. It enables numerous connectivity functionalities.

Read more on www.opensynergy.com

About Parrot Faurecia Automotive

Parrot Faurecia Automotive designs, develops and markets infotainment products for passenger vehicles and commercial trucks. Parrot pioneered Bluetooth in-vehicle hands-free communication and brought the first Android-based car radio to the market. Parrot Faurecia Automotive has proven its experience as a strong contributor to the industry by equipping more than 50M vehicles. Its extensive technology portfolio includes best-in-class analog and digital radio reception, voice recognition and seamless smartphone integration. Parrot's Android-based infotainment systems cover the front and the rear of the vehicle.

Parrot Faurecia Automotive SAS is jointly owned by Parrot SA and Faurecia, one of the world's largest automotive equipment suppliers.

For more information, please visit: www.parrot-faurecia-automotive.com

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