



Press Release

Real time cluster emulation for FlexRay and CAN

Cluster emulation tool EB tresos Busmirror 2010.a and hardware EB 2100 for time-critical applications with open programming interfaces

Erlangen, 24 March 2010, EB (Elektrobit), a leading developer of cutting-edge embedded technology solutions for automotive and wireless industries, announces a new version of the [EB tresos Busmirror](#) cluster emulation tool. This extends the capability of performing real time cluster emulation from FlexRay into CAN networks as well. The cluster emulation offering is complemented by the new [EB 2100 hardware interface](#). An open programming interface allows custom-developed software modules to be integrated into the EB tresos Busmirror or the EB 2100.

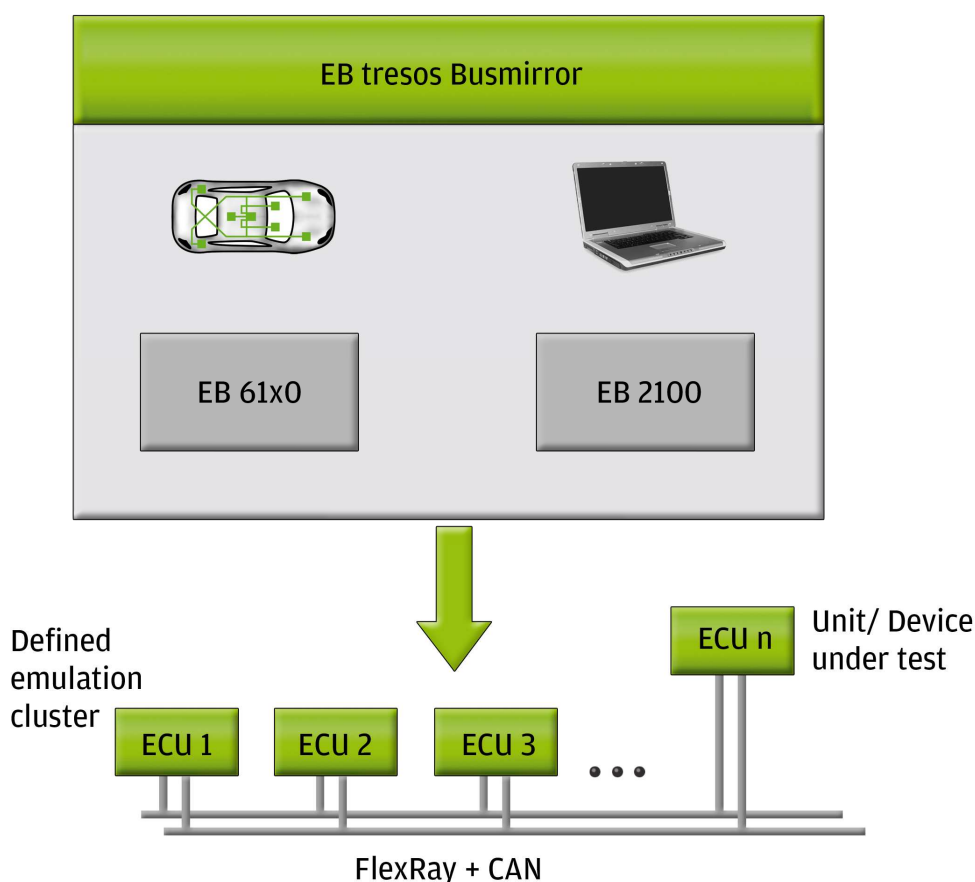
Developers can now use the same tool for both FlexRay and CAN simulations. "Real time cluster and cluster emulation are now also possible in CAN," says Florian Wandling, product manager for EB tresos at EB, explaining the extension.

Cost-effective introduction to cluster emulation on the workstation

The new EB 2100 hardware can also be used for time-critical applications in cluster emulation. Due to the difficult requirements of safety-relevant systems for FlexRay, real-time-capable hardware must work in synch with the FlexRay bus. To make that possible, time-critical calculations are carried out on the EB 2100. "That decouples the real-time system from the user interface – saving resources on the PC," says Wandling. The EB 2100 hardware can also be used for CAN cluster emulation. The EB 2100 has been consistently developed for use in the workstation, meaning that comprehensive functionality essential for in-vehicle hardware like the EB 6100 could be excluded in the EB 2100. "That means a much more cost-effective introduction to cluster emulation," explains Wandling.

High performance guaranteed

Although EB tresos Busmirror 2010.a now supports FlexRay and CAN bus systems, its performance remains at the familiar high level. Thanks to open programming interfaces, the solution is very easily integrated into different host systems like Windows or Linux. The product also includes drivers for the ETAS Labcar and NI/LabVIEW (RT). The EB tresos Busmirror 2010.a cluster emulation tool is compatible with the hardware interfaces for the EB 2100, [EB 6100](#), and [EB 5100](#).



[Graphic: EB cluster emulation on the PC and in the vehicle]

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EB, Elektrotbit Corporation

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EB's Automotive Software Business

EB's Automotive Software Business has established itself internationally as one of the most important suppliers of embedded software solutions for the automotive industry. In addition to the development of innovative products, it also specializes in services and consulting for the automotive industry, supplying implementations of serial software solutions for a broad range of AUTOSAR and FlexRay, Infotainment, Navigation, HMI and Driver Assistance systems.