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Press Release

Accelerated ECU Development with ETAS EVE

- EVE accelerates the testing and validation of AUTOSAR software in all development phases
- Using EVE, AUTOSAR-compliant software – from individual components to a network of virtual ECUs – can be run in an easily configured, real-time capable, virtual environment on the PC
- The open interfaces provided by EVE make for easy integration in existing AUTOSAR development environments

Available since November 2012, the EVE solution from ETAS contributes greatly to the acceleration of ECU software development. It facilitates the validation and calibration of ECU software on a standard PC. For the most part, and in contrast to previous virtual solutions, this approach uses actual software and a preproduction operating system. This provides realistic conditions for the tasks involved. With the aid of EVE, software can be tested before the hardware becomes available. By using the flexibility of powerful PCs, several hours of debugging can be reduced to an amazing few minutes. First-come users are already reaping the benefits from the open, AUTOSAR-compliant platform.

Tests can be run in both real-time and non-real-time mode, i.e., in a real environment with actual hardware and PC-based I/O on the one hand, and in a fully simulated environment with virtual devices on the other. This opens the door to a large pool of use cases that are highly consistent despite the varieties of differing development phases. In this way, individual software components, the

complete application software, or the basic software stack can be tested. EVE validates whether the functionality has been correctly implemented and isolates issues calling for easier stimulation and a root cause analysis. This shortens roundtrip times for software editing, compiling, testing, and debugging. EVE also provides a means of testing whether a basic software is standard compatible, and whether it provides interoperability with a given real-time environment and application software.

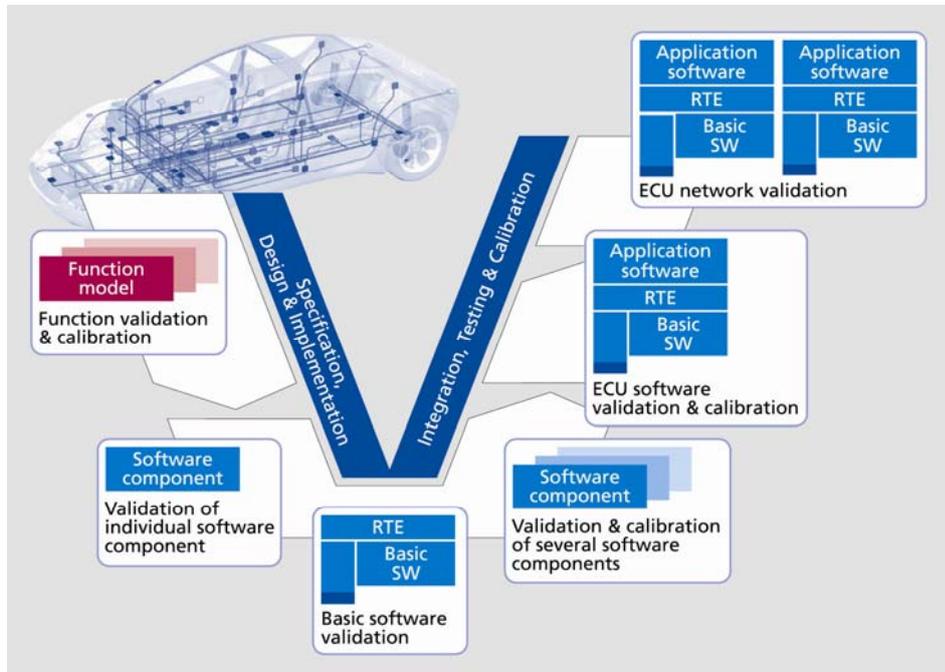
EVE consists of two components, i.e., the Windows-based configuration tool ETAS ISOLAR-EVE, and the RT-Linux-based runtime environment ETAS RTPC-EVE. ISOLAR-EVE performs the configuration of the virtual ECU, the integration of the source code, and controls the execution of the virtual ECU on RTPC-EVE. Several virtual ECUs can be tested in parallel. The RTPC-EVE runtime environment provides interfaces for measurement, calibration, and tracing tools, and supports ECU software debugging.

ETAS GmbH

ETAS provides innovative solutions for the development of embedded systems for the automotive industry and other sectors of the embedded industry. As a systems provider, ETAS supplies a multifaceted portfolio that covers the range from integrated tools and tool solutions to engineering services, consulting, training, and support. Security solutions in the area of embedded systems are offered by the ETAS subsidiary ESCRYPT. Established in 1994, ETAS GmbH is a 100-percent subsidiary of the Bosch Group, with international subsidiaries and sales offices in 13 countries in Europe, North and South America, and Asia.

For more information, please visit www.etas.com

Graphic:



The EVE solution permits the integration, validation, and calibration of various combinations of components and modules of both application and basic software.