

## Press Release

### ETAS and Symtavisision Sign Partnership Agreement

Close cooperation will add timing & performance aspects to ETAS tool suite

**Stuttgart/Braunschweig, Germany, April 21, 2008. ETAS and Symtavisision have signed a partnership agreement with the objective of cooperating closely on extending ETAS' AUTOSAR operating system RTA-OS as well as the ETAS tool suites ASCET and INTECRIO by adding functionalities for verifying and optimizing both timing and performance.**

In the initial designs of electronic real-time systems, timing and performance aspects are frequently neglected. One of the underlying reasons is the lack of tool support in these early development phases. Symtavisision's novel tool suite SymTA/S enables not only performance design but also verification of the same during all phases of development. In their joint efforts, ETAS and Symtavisision will focus on seamless tool integration for scheduling, performance analysis, and optimization during the system design, implementation, and verification phases of development.

The inherent benefit for development as a whole arises from the merger of ETAS' extensive modeling and code generation expertise and Symtavisision's pioneering timing analysis capabilities. The cooperation also encompasses aspects such as dynamic ECU behavior in response to interruptions, context changes, blockages or jitter, as well as data-flow analysis and support of multi-core ECUs. Furthermore, the tool coupling will offer ETAS tool users a path to checking bus schedules all the way to full network end-to-end timing analysis, including numerous ECUs and gateways.

The improvement in system performance is derived from the highly efficient use of resources. The seamless tool integration will allow users to analyze, optimize, and verify the timing and scheduling of real-time systems to be developed in all areas of the V-cycle. Using input from ASCET and INTECRIO, both performance and dynamic timing of the real-time system can be analyzed already early on in the design phase. This results in the development of verified products that make the most effective use of resources.

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One specific example may serve to illustrate the benefits achieved by the aforementioned tool coupling. It is the verification of the scheduling for an SIL-3 ECU used by a German automotive manufacturer. On the basis of the modeling in ASCET, the required SymTA/S input data was generated. This enabled SymTA/S to verify that the ECU scheduling, or timing, of all permissible system statuses was within specifications. It also became evident that it was possible to meet the specifications with the use of a smaller CPU and less costly memory – a finding that resulted in significant cost savings.

### **About ETAS**

ETAS is a reliable and responsible partner to the automotive industry and provides a comprehensive portfolio of integrated tools and tool solutions for both automotive ECU development and vehicle service.

The product portfolio is further strengthened with engineering services, consulting, training, and premium customer support.

ETAS is an active participant in standards consortiums such as ASAM, OSEK, Nexus, AUTOSAR, AESAS, FlexRay, LIN, and JasPar.

More than 700 ETAS personnel worldwide represent the company in the markets of Germany, the United States, Japan, Korea, P.R. China, India, France, and Great Britain.

### **About Symtavision**

Symtavision is a leading manufacturer of scheduling analysis tools and a provider of associated services. As a spin-off of the Technical University of Braunschweig, Germany, the company takes advantage of more than 10 years of know-how and experience in the analysis and optimization of embedded real-time systems. Target markets are the automotive and aerospace industry as well as developers and users of complex real-time systems in other branches of industry. Symtavision serves customers in Germany, Europe, and the United States and maintains a representation in Japan. Symtavision is member of AUTOSAR and of various European professional associations.

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