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## Press Release

### ETAS Brings New Eclipse-based ASCET Version to Market

- Eclipse offers numerous standard functions for tool manufacturers and integrators
- Shorter throughput times and less complexity in developing ECU code
- Existing data can be used unchanged

**Stuttgart, February 24, 2016** – Tool chains in the automotive sector comprise a host of individual tools. These tools must all be coordinated with one another, which poses a major challenge not only for the manufacturers of the individual tools, but also for the managers and users of the tool chain.

These tools are used by OEMs, tier 1 suppliers, and service providers alike, so any project-based adjustments to the tool landscape entail a considerable investment of time and money. They also pose two additional challenges for OEMs and tier 1s. One is the growing pressure from customers to shorten development cycles for new functions. The other is customers' expectations that updates to new functions, which are largely realized via software, should also be implemented in their vehicle, similar to the procedure on mobile devices.

Furthermore, demand is high for a standardized and largely automated tool chain that minimizes "frictional losses" and facilitates the certification required for safety-critical functions (ISO 26262/IEC 61508).

This is precisely where ETAS comes in, providing a consistent and automated solution. The latest version, ASCET V7, is based on Eclipse, the open-source platform for software development, and has just been released.

### **From idea straight through to finished code**

Very often, function and software developers work in different departments or even in different companies and countries. In these situations, a consistent tool chain promotes efficient and transparent collaboration and helps create the ideal conditions for a variety of experts to coordinate their efforts, whether for developing new functions or expanding existing ones.

Development often begins with the function developer, who uses physics formulas and such tools as ETAS ASCET-EQUATIONS or ETAS ASCET-DESIGNER to describe the system to be developed. In order to check the resulting model, it should be possible to simulate it at any time. This simulation uses tools like ETAS ISOLAR-EVE (PC-based tests) or ETAS INTECRIO (rapid prototyping), depending on the desired test depth. For the next step, generating ECU code, ETAS ASCET-CODER and ETAS ISOLAR-A (for AUTOSAR ECUs) spare the software developers a lot of labor-intensive tasks, for instance by automatically generating secure C code. The ETAS INCA products can be used for extensive testing and for calibrating the function in the ECU.

### **Tool chain supports “administrative tasks”**

In addition to actually developing the functions, many other tasks also need to be completed: for example, testing, visualization, simulation, development of testing environments, documentation, version management, certification, and reporting. Here, too, the ETAS portfolio offers suitable tools that can be easily integrated into the tool chain, e.g., ETAS EHANDBOOK for documentation or ETAS LABCAR for test and validation.

### **Caption:**

The Eclipse-based integrated development environment of ASCET V7.

## **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 12 countries in Europe, North and South America, and Asia.

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