

ETAS GmbH

Borsigstraße 14
70469 Stuttgart, Germany
Phone +49 711 3423-2240Press and Public Relations:
Anja Krahlanja.krahl@etas.com
www.etas.com

Press Release

Double presence at embedded world 2018

ETAS showcases its innovations across two booths

- Fast, secure functions development
- Expansion of AUTOSAR tool chain
- Measurement solutions for automated driving
- Simulation and virtualization of vehicle systems
- Holistic security solutions

Stuttgart, February 28, 2018 – The automotive industry is undergoing fundamental change. New, energy-efficient vehicle powertrains, (partially) autonomous driving, digitalization, connectivity, and cyber security – the list of innovations has never been so long. At the same time, new systems must be brought to market faster. Key technologies are electronics and software, which is exactly where ETAS' strengths lie. At this year's embedded world, we will be showcasing our solutions for advanced driver assistance systems and our portfolio for holistic IoT security.

Advanced driver assistance systems – Development solutions for electronic systems

New ways for fast and safe function development

SCODE-ANALYZER and SCODE-CONGRA software tools from ETAS, based on a brand new methodology, help you find the way more quickly through the labyrinth of function development. System, function, and software developers can

describe, visualize, analyze, and optimize their complex systems from the very start of the development process. Errors are avoided right from the beginning. The tools are based on the approach of functional morphology – that is, studying the structure of functions and their relationships with each other; and automated cognition – the reorganization of information in a system that controls behavior. Automatic verification of the complete description of the decision paths and mathematical relationships support the requirements for proving functional safety as per ISO 26262. The completeness of the analysis is mathematically demonstrated – that is unique. Initial projects have shown that the work involved in function development can be reduced by more than 30% with SCODE-ANALYZER and SCODE-CONGRA.

Expansion of ETAS AUTOSAR environment

With the new tool, ISOLAR-B, for configuring AUTOSAR-compliant basic software and the RTA-BSW (basic software) updates, ETAS offers a productive AUTOSAR tool chain with a high degree of automation and services for the AUTOSAR Classic and Adaptive Platform. The tools are now available to many semiconductor manufacturers. To round off its AUTOSAR product portfolio, ETAS offers a wide range of AUTOSAR services and support in the areas of functional safety and security.

Measurement solutions for automated driving

ETAS has positioned itself early in this segment, allowing it to offer an extensive portfolio of tools and solutions for the time-saving and cost-efficient development of advanced driver assistance systems (ADAS). Highly automated and fully automated driving functions will require developers to break new ground. Here, the key is to intelligently combine established and new development tools and techniques, and to adapt the simulation tools tested in other automotive applications to meet the requirements of new vehicle topologies and architectures. In spite of the increasing complexity and risks involved, software development must remain affordable. This means developing tools that cover more than the development process itself. For instance, data from virtualized tests and test vehicles might be made available for future projects using big

data techniques. ETAS established an expert team for artificial intelligence (AI) some time ago, and is forging ahead with solutions such as Enterprise Automotive Data Management (EADM). Thanks to the seamless, time-synchronized recording of measurement data and smart analysis, it will be possible to make use of previously untapped data. Deep learning algorithms and neural networks have many applications in ADAS, including object recognition systems, fusion, space calculation, and decision making.

Simulation and virtualization of vehicle systems

Virtualization has multiple benefits: development steps can be brought forward and conducted in parallel; hardware and vehicles saved; test processes accelerated; and safety-critical tests carried out risk-free – a major advantage especially when securing highly automated driving functions. ETAS COSYM is a solution that enables efficient testing and validation of connected, embedded systems in virtual environments. To this end, the new ETAS solution offers an open simulation platform based on new software technologies. COSYM can be used to conduct MiL/SiL/HiL (XiL) system testing with a special focus on ECU networks.

Holistic security solutions offer constant protection

The acquisition of the Canadian company TrustPoint Innovation Technologies, Ltd. in 2017 has expanded our security know-how with the addition of new technologies for secure machine-to-machine communication (M2M) in the Internet of Things (IoT). Moreover, tried-and-true cyber security expertise from the Bosch group has also been systematically integrated into the portfolio of subsidiary ESCRYPT. As a provider of holistic IoT security solutions, ESCRYPT now covers the entire security process for additional vertical markets worldwide – from prevention and detection to response. ESCRYPT protects its customers' data and products from unauthorized access, manipulation, or theft with Computer Emergency and Product Security Incident Response Teams, its own cyber

defense center, and strategic security consultants. ESCRYPT pools and continuously adds to its portfolio of security expertise in the pioneering fields of smart mobility, smart industry, and smart city.

Strong together

International site development and expansion

It is not just partnerships that strengthen and add to our portfolio; the establishment and expansion of our regional presence has also contributed significantly to the company's success. In early 2017, ETAS opened a new location in Nagoya, Japan, with a view to intensifying its collaboration with local customers and those in the West of Japan. ETAS is now represented by three locations in Japan. 2017 was also an important year for ETAS India. When the regional sales office opened in 2007, it had just three associates providing measurement and calibration solutions to two Indian customers. After ten years, the organization now employs 40 people, offering the entire portfolio of ETAS solutions to more than 150 customers in the country.

Best sales year in the company's history

With sales of 235 million euros in 2017, ETAS can look back proudly on the best sales year in company history. All regions and divisions played their part in the 13 % sales growth. The biggest increases were in the area of measurement, calibration, and diagnostics, as well as security solutions. The strongest region for sales was Germany.

This year, ETAS will have **two booths** at embedded world. Both are in Hall 4 of the Nuremberg Exhibition Center. Visit **Booth 4-558** to learn more about ETAS' latest products and solutions, while **Booth 4-410** will offer a range of interesting talks showing new insights into security solutions, open source software, cloud development, and much more.

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. Holistic IoT security solutions are offered via ETAS subsidiary ESCRYPT. Established in 1994, ETAS GmbH is a 100-percent subsidiary of the Bosch Group, with international subsidiaries and sales offices in Europe, North and South America, and Asia.

Further information online at www.etas.com