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Press Release

Accelerating development and operations of automotive software

ETAS showcases end-to-end solutions for the software-defined vehicle at CES 2024

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- Speeding up software development through an efficient DevOps cycle
 - Mastering increasing complexity and quality demands through enhanced software integration and delivery performance

Las Vegas, January 8, 2024 – We're at an exciting point in the auto industry's transformation – vehicles are evolving from being machines to software-defined experiences. In the driver's seat of this journey – software. The destination – cleaner, more efficient, and connected vehicles that provide reliable, safe, and personalized driving experiences. To reach this destination, the auto industry needs supercharged software development.

That's exactly what the ETAS portfolio is designed to do: speed up development and operations (DevOps) of automotive software – and what ETAS is showcasing at the Consumer Electronics Show (CES) in Las Vegas.

ETAS CES showcases at a glance

Tools and services to accelerate the DevOps cycle

The move toward the software-defined vehicle is accompanied by significant challenges, including faster development and deployment of large-scale automotive software applications, as well as collecting and analyzing large amounts of data to feed into vehicle function development. ETAS solutions, tools, and services accelerate the DevOps cycle by improving the efficiency of software development, integration, and delivery while maintaining the highest standards of quality, safety, and

security.

Scalable approach to software development

One of the central questions in the industry is how to increase software delivery performance while managing complexity and securing the quality of the software ecosystem. ETAS offers a scalable approach to efficient software development based on collaborative, continuous, automated, quality-first workflows and enabling solutions to support OEMs and Tier 1s to set up their own “software factory.”

Middleware for ADAS/AD systems

Middleware solutions play a crucial role in modern automotive software development. Application components from different suppliers can be used together without needing to know implementation details. But ADAS and AD systems have special challenges that are not sufficiently addressed by current middleware solutions: How can the volume and velocity of sensor data be handled without sacrificing system performance? How can functional safety above ASIL-B be supported? How can reproducible system behavior be guaranteed to allow faster debugging and simulation-based validation? At CES, ETAS explains these specific middleware challenges, how they have been solved by experienced ADAS/AD developers and shows real use cases.

Holistic solution for ADAS/AD development

Developing and validating ADAS/AD software is currently one of the main tasks in the automotive industry. ETAS middleware allows data stream management to ensure reproducibility between road and lab according to the highest functional safety standards. Reliable, large-volume, high-speed data can be acquired through ETAS measurement technology, whereas ETAS cloud services provide validation over millions of miles.

Continuous Development Workbench – AUTOSAR Classic pipeline with AWS

In a development environment for AUTOSAR Classic ECUs on an Amazon Web Services (AWS) cloud, developers work on individually configurable virtual desktops with development tools that fit together and are continuously updated. The benefits are clear: radical efficiency gains, lower costs, and better collaboration across company boundaries. This allows developers from different areas to fully concentrate on the creation of innovations and effectively achieve their goals.

At CES, ETAS will also be introducing its newly added Authoring and Diagnostics Services, which result from an intensified cooperation between Bosch Automotive Aftermarket and ETAS. ETAS will now provide integrated authoring and diagnostic solutions with relevant repair and service data for

manufacturing and workshops – allowing connected cross-lifecycle diagnostics with ready-to-go automated content generation.

Visit us at CES 2024 in Las Vegas, Jan. 9-12, 2024, at booth 17207 in Central Hall.

About ETAS

Founded in 1994, ETAS GmbH is a wholly owned subsidiary of Robert Bosch GmbH, represented in twelve countries in Europe, North and South America, and Asia. ETAS' portfolio includes vehicle basic software, middleware, development tools, cloud-based operations services, cybersecurity solutions, and end-to-end engineering and consulting services for the realization of software-defined vehicles. Our product solutions and services enable vehicle manufacturers and suppliers to develop, operate, and secure differentiating vehicle software with increased efficiency.

Further information available at www.etas.com