Announcement

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AUTOSAR and iSOFT Announce Major CAPI Contribution to Accelerate SDV and AIDV Deployment

The AUTOSAR Partnership and iSOFT announced a significant contribution to the Common Adaptive Platform Implementation (CAPI) at the 17th AUTOSAR Open Conference (AOC) in Shanghai.

The contribution represents an important milestone in AUTOSAR's evolution from a specification-centric standard toward an executable, implementation-driven software platform for Software-Defined Vehicles (SDV) and AI-Defined Vehicles (AIDV).

CAPI is designed to accelerate interoperability, integration, and deployment of AUTOSAR Adaptive Platform solutions by providing executable platform components aligned with the AUTOSAR specifications. The contribution from iSOFT includes production-oriented Adaptive Platform software components and integration capabilities supporting centralized compute architectures, service-oriented communication, and modern automotive software development workflows.

The contribution enables:

- Faster integration and deployment of AUTOSAR Adaptive Platform solutions
- Improved interoperability across OEMs, suppliers, semiconductor platforms, and tools
- Alignment with modern CI/CD, DevOps, and MLOps development approaches
- Support for centralized SDV and AIDV architectures
- Accelerated collaboration across global automotive ecosystems

As the automotive industry transitions from SDV toward AIDV, the need for executable standards, reusable software foundations, and ecosystem-wide collaboration continues to increase. CAPI addresses these challenges by complementing AUTOSAR specifications with implementation-oriented assets supporting real-world deployment.

A live demonstration at the 17th AUTOSAR Open Conference will showcase CAPI software running on an automotive ECU with Ethernet-based service communication and Adaptive Platform functionality.

"The industry is moving from specification to execution," said Thomas Rüping, AUTOSAR Chairperson. "CAPI is a key step in enabling executable standards and accelerating industrial adoption of AUTOSAR Adaptive Platform technologies globally."

"CAPI represents an important evolution toward faster deployment cycles and scalable collaboration across the global automotive software ecosystem," said Joachim Langenwalter, AUTOSAR Spokesperson. "The combination of standardized specifications and executable implementations is essential for the SDV and AIDV era."

"The future of automotive software requires open collaboration, executable platforms, and rapid integration capabilities," said Liu Hongqian, CEO iSOFT. "By contributing to CAPI, we support a globally interoperable and automotive-grade software foundation that can accelerate innovation across the industry."

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The contribution also demonstrates the growing momentum of AUTOSAR Adaptive Platform adoption across China and global markets, including deployments on centralized compute platforms supporting next-generation cockpit, connectivity, and AI-enabled vehicle functions.

AUTOSAR continues collaborating with ecosystem initiatives including Eclipse SDV, SOAFEE, S-CORE, COVESA, and ECAVA to support open, interoperable, and automotive-grade software solutions for future SDV and AIDV architectures.

About AUTOSAR (AUTomotive Open System ARchitecture)

AUTOSAR (AUTomotive Open System ARchitecture) is a global partnership of leading companies in the automotive and software industry to develop and establish the standardized technical framework enabling scalable E/E system architectures for intelligent mobility. Since 2003, they have been working on the development and introduction of several open, standardized software platforms including the joining methodology for the automotive industry. By simplifying replacement and update for software and hardware, the AUTOSAR approach forms the foundation for reliably controlling the growing complexity of electronic and software systems in today's and future vehicles. As AUTOSAR is open to new features in the Automotive area it will continuously adapt the standards. In addition, AUTOSAR improves cost efficiency and quality by enabling its partners to cooperate in a competitive way but on the same solution. The "Core Partners" of AUTOSAR are AUMOVIO Germany GmbH, Bayerische Motoren Werke AG, Robert Bosch GmbH, DENSO Corporation, General Motors Holdings LLC, Huawei Technologies Co., Ltd., Mercedes-Benz AG, Toyota Motor Corporation, Vector Informatik GmbH, and Volkswagen AG. The AUTOSAR partnership of over 300 partners play an important role in the success of the partnership and can use the standards free of charge.

About iSOFT

Founded in 2008, iSOFT is the first Chinese enterprise specializing in automotive basic software to join AUTOSAR as a Premium Partner. iSOFT provides domestic OEMs and Tier 1 suppliers with full-lifecycle toolchains covering design, development, configuration, integration and testing of automotive software, alongside localized one-stop services and ecosystem support for automotive-grade chips.

As a Chinese pioneer in global open-source automotive OS development, iSOFT leads the China Automotive OS Open Source Collaborative Initiative and the Open Source Starlight Program. iSOFT has launched EasyXMen, the world's first production-ready open-source automotive OS built on AUTOSAR CP, and strive to foster a core community for automotive basic software rooted in China.

Further information

Web: www.autosar.org

Email: press@autosar.org