Media Release

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AUTOSAR Release R19-03 published

The AUTOSAR (AUTomotive Open System ARchitecture) development partnership constantly improves its standards. The latest release R19-03 of AUTOSAR Adaptive Platform and R1.5.1 of the AUTOSAR Foundation stabilizes the existing features of AUTOSAR standards and improves the open system architecture. The Adaptive Platform specifications and code were published on the AUTOSAR website at the end of March 2019.

The release R19-03 of the AUTOSAR Adaptive Platform focuses on stabilizing the existing features from the release R18-10. Besides several improvements from a quality perspective, the following features have undergone design and architectural changes to prepare for future extensions.
Improvements in Adaptive Platform release R19-03:

- State Management
- Diagnostics
- Identity and Access Management
- Network Management
- TimeSync
- Usage of ara::core types and exception-less API
- Cryptography for Adaptive Platform

The release R1.5.1 of the AUTOSAR Foundation has been revised to support the R19-03 Adaptive Platform changes. Additionally, the following specifications were updated in this release:

- End2End Protocol Specification: Configuration of maximum data lengths for End2End profiles
- Requirements on End2End
- Specification of Health Monitoring
- Time Synchronization Protocol Specification

"For AUTOSAR, the stabilization of releases is an important step to continuously improve the quality of the last features and to be prepared for next features", said Dr. Günter Reichart, AUTOSAR spokesperson. "After completion of this important work, we are now focusing intensively on new features in our Working Groups. The next release is planned for November 2019 and we are looking forward to present further new functionalities for the AUTOSAR Classic Platform and the AUTOSAR Adaptive Platform."

About the Adaptive Platform
AUTOSAR first released its Adaptive Platform on March 31st, 2017 as a standardized integration platform for electronic control units (ECU). The AUTOSAR Adaptive Platform is based on POSIX operating systems and is the ECU standard for new automotive megatrends. It combines the safety and security of microcontroller-based ECUs with the high performance provided by microprocessor-based multimedia ECUs. By doing so, the new standard avoids the costly alternative for OEMs and their suppliers of repeatedly developing the critical and complicated functionality of such a software platform with proprietary and individual approaches.

About AUTOSAR (AUTomotive Open System ARchitecture)
AUTOSAR (AUTomotive Open System ARchitecture) is a worldwide development partnership of car manufacturers, suppliers and other companies from the electronics, semiconductor and software industries. Since 2003, they have been working on the development and introduction of an open, standardized software architecture for the automotive industry. By simplifying replacement and the update options for software and hardware, the AUTOSAR approach forms the basis for reliably controlling the growing complexity of electrical and electronic systems in motor vehicles. In addition, AUTOSAR improves cost efficiency without compromising quality. The "core partners" of AUTOSAR are the BMW Group, Bosch, Continental, Daimler AG, Ford, General Motors, PSA Group, Toyota and the Volkswagen Group. In addition to these companies, more than 200 partners play an important role in the success of the partnership. Companies, which join the AUTOSAR Development Partnership, can use the specifications free of charge.

Further information

Web: www.autosar.org
Mail: press@autosar.org