AUTOSAR Release R19-11 published

The AUTOSAR (AUTomotive Open System ARchitecture) development partnership constantly improves its standards. With the current Release R19-11 we support the developers with a parallel, well synchronized release of new features and improvements both for the Classic as well as the Adaptive Platform. This release supports the users of the AUTOSAR standard in various areas such as service-oriented architectures, Diagnostics over IP (DoIP), security, over-the-air updates as well as in the AUTOSAR methodology. Additionally, the release fixes some compatibility issues between the two platforms.

The AUTOSAR Release R19-11 includes, among others, a DoIP Extension which is implemented in the Classic as well as in the Adaptive Platform. It defines diagnostic communication between ECU/DoIP node and internal tester located within the vehicle network. The internal DoIP interface supports an activation line per internal interface. The combination of internal/external DoIP interfaces will support activation lines and dynamic IP assignments for external testers. No vehicle announcement will be required as the external tester can now get the IP addresses directly from the gateway.

Furthermore, an Update & Configuration Management (UCM) Master, allows frequent secure and safe updates of vehicle software within the Adaptive Platform. Its purpose is to ensure update, installation and removal of an Adaptive Software Cluster within a vehicle by over-the-air or diagnostic tester connections. This provides better exchangeability of specific OEM applications (OTA client, vehicle safety manager, diagnostic applications, driver interaction) between Adaptive platforms.

“Release R19-11 provides timely solutions in accordance with the development needs of the AUTOSAR partners for both AUTOSAR Classic and Adaptive Platform”, said Günter Reichart, AUTOSAR spokesperson.
**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**
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