

Vector offers greater safety by introducing the world's first AUTOSAR basic software to be certified to ASIL D

Stuttgart, GERMANY, 2016-09-13 – The internationally recognized specialist for functional safety, exida, has verified that the AUTOSAR 4 basic software from Vector fulfills the requirements of ISO 26262 up to the ASIL D level with a certificate issued on 2016-09-08. This makes Vector the world's first company to offer software that has been certified by an independent assessment. This lets developers implement significantly higher performance ECUs for safety-related applications.



To ensure that safety-related and non-safety-related software components do not interfere with one another, their data is usually stored in separate memory areas. With Vector's basic software certified up to ASIL D, they can now be executed in the same partition as the safety-related application software. This approach significantly increases performance, because task switching, reprogramming of the Memory Protection Unit (MPU) and additional copying can be eliminated. In addition, safety requirements that were previously implemented on the application level can now be allocated to the basic software. In the assessment, the operating system and the software components for CAN, LIN and FlexRay communication were evaluated as were the components for system control and memory management.

Vector applied the relevant methods of ISO 26262 for the development of its safe basic software. Particular focus was on the use of special verification methods to achieve full coverage for the specific user configuration despite the high configurability of the modules. In the assessment, it was verified that all software modules were sufficiently free from interference. Extensive semi-formal design and traceability records were also created for the assessed components.

The AUTOSAR basic software from Vector that is certified to ASIL D is distributed under the name MICROSAR Safe. It is available for all of the microcontrollers typically used in the automotive industry.

More information: www.vector.com/safety



Figure: Vector is the world's first company to offer ASIL D certified AUTOSAR 4 basic software.

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About the Vector Group (Revised: September 2016):

Vector Informatik is the leading manufacturer of software tools and embedded components for the development of electronic systems and their networking with many different systems from CAN to Automotive Ethernet.

Vector has been a partner of automotive manufacturers and suppliers and related industries since 1988. Vector tools and services provide engineers with the decisive advantage to make a challenging and highly complex subject area as simple and manageable as possible.

Vector employees work on electronic innovations for the automotive industry every day. Worldwide customers in the automotive, commercial vehicles, aerospace, transportation, and control technology industries rely on the solutions and products of the independent Vector Group for the development of technologies for future mobility.

Vector worldwide currently employs more than 1,680 people with sales of EUR 332 million in 2015. With its headquarter in Germany (Stuttgart), Vector has subsidiaries in the USA, Japan, France, Great Britain, Italy, Austria, Sweden, South Korea, India, China, and Brazil.