Press Release

Vector is the first supplier to deliver an ASIL-D certified AUTOSAR operating system

Stuttgart, GERMANY, 2013-02-18 – The AUTOSAR operating system MICROSAR OS SafeContext from Vector has been certified to ASIL D for the TMS570 processor. In January 2013, TÜV Nord verified that its development conformed to ISO 26262. This makes MICROSAR OS the first AUTOSAR operating system available to be certified through the ASIL-D level.

MICROSAR OS SafeContext assures “Freedom from Interference” for memory access and simplifies the process of integrating software modules with different safety relevance. This makes it easier to develop safety-related ECU software in mixed ASIL systems.

The operating system was certified for TMS570 processor devices from Texas Instruments. The concept is currently being extended to other processors.

Mixed ASIL systems require safe partitioning of software modules (“Freedom from Interference”). MICROSAR OS SafeContext supports this by protecting against overwriting of memory areas and by safe switching of contexts. The needed switching of the memory protection unit (MPU) and the switching of task and interrupt contexts was developed according to ASIL-D.
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About Vector Group (Revised: 2013-02-01):
Vector is the leading manufacturer of software tools and software components for the development of electronic systems and their networking based on CAN, LIN, FlexRay, Ethernet and MOST as well as multiple CAN based protocols. The Vector know-how is reflected in a wide range of tools as well as in integrated consulting services with software and systems engineering. Workshops and seminars complete the manifold training program. Customers from the automotive engineering, the commercial vehicle, aerospace, transportation and control technologies around the world trust in the solutions and products from the independently-owned Vector Group.

Vector Informatik GmbH was founded in 1988. About 1,100 employees work for Vector Informatik and Vector Consulting Services in Stuttgart or in one of the subsidiaries in USA, Japan, France, Great Britain, Sweden, the Republic of Korea, India and China. The group’s revenue in 2012 was 224 million Euros.