

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.





[Figure 1: The certificate from TÜV Nord verifies that MICROSAR OS SafeContext was developed in conformance to ISO 26262 / ASIL D and may be used in safety-related ECUs.]

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