The Vector solution for functional safety consists of:
- Consulting services
- AUTOSAR basis software MICROSAR Safe
- Design of safety-related systems with PREEvision

MICROSAR Safe – AUTOSAR Basic Software

Properties and Advantages
- Enables freedom from interference (FFI) in mixed-ASIL systems to assure that safe software parts and non-safe software parts can be run free of interference on the same ECU
- Developed according to ISO 26262 / ASIL D
- Also available for multicore micro-controllers
- Efficient solution for the interaction between different memory partitions and µController cores.
- Traceability between configuration parameters and requirements
- Based on many years of experience in the field of functional safety of TTTech and Vector

Modules and their Functions
- SafeContext: memory protection and safe context switching (certified to ASIL D)
- SafeWatchdog: flow control of safety-related software components (available up to ASIL D)
- SafeCom: safe intra-ECU and inter-ECU communication (available up to ASIL D)
- SafeRTE: safe intra-ECU communication (available up to ASIL D)

The Vector Group offers a full line-up of tools, basic software and consulting services related to all aspects of functional safety.

Wide expertise in practical work with many companies

Effective and efficient implementation of safety standards

Consulting Services is the preferred supplier on functional safety for many companies:
- Providing an Interim Safety Manager for your company
- Review of safety concepts and evaluation of safety-critical systems and components
- Implementation of focussed and cost-effective safety processes
- Conducting supplier safety assessments
- Development, specification and verification of safety requirements
- Introduction of strategies and methods to ensure information security in technical systems, because functional safety requires information security
- Training and coaching of safety managers and engineers

Our broad know-how yields objective-driven implementation with limited effort. By embedding functional safety into the product life-cycle, we support you in growing your capabilities towards delivering proven safety-critical software.

Upon request, we can provide you with sample classifications of our tools, which have been created based on generic, cross-customer use cases according to ISO 26262-methodology. They contain notes on the qualification of tools as well, which you can use as a starting point for your own project-specific classification and qualification of tools. We would be glad to assist you in the context of a service project.

More Information:
www.vector.com/safety