

## Performing Automotive Ethernet Conformance Tests is Easy with CANoe

**Stuttgart, GERMANY, 2019-06-12 – Assuring Ethernet conformance of automotive ECUs is now easier and more efficient for developers and system integrators. The current Version 12.0 of CANoe, the development and test tool from Vector, now supports conformance tests defined by Technical Committee 8 (TC8) of the OPEN Alliance. The tests are implemented so that their execution is primarily automated; this enables ideal integration into the development process.**



When automotive Ethernet is used, a variety of different communication protocols may be implemented, depending on the use case. To test their compatibility, the OPEN Alliance industry association has developed an extensive test specification with more than 850 test cases. The current Version 12.0 of CANoe with Option Ethernet contains these tests and allows their execution at any developer workstation. They enable users to detect problems in early development phases. The tests to be run are configured with the help of vTESTstudio to adapt them to project-specific requirements.

For pure protocol tests, it is sufficient to use any Ethernet interface from Vector with IEEE-100BASE-T1 support. For tests of the physical transmission layer, the VT6306 card is available for the VT System. To increase the overall test's degree of automation, the VT6306 can be combined with other VT modules, such as modules to control the ECU's supply voltage.

Compared to other TC8 test systems available on the market, users benefit from many advantages in test implementation: The tests are standard features of the widely used tools CANoe and vTESTstudio, so no special tools need to be procured. The developer gets an open system in which all test cases are available as source code. This makes it easy to transfer the configuration to suppliers and to adapt it to project-specific requirements and future extensions. The tests can be executed without any special knowledge of the tools CANoe, Ethernet and vTESTstudio.

The extensive test report and the many different analysis capabilities of CANoe assist users in efficiently analyzing problems that occur without having to switch tools. In evaluating the test results, a question that often arises is whether the test was configured incorrectly or whether the ECU made an error. To clarify this, the provided CANoe configuration contains a simulated ideal reference ECU. This gives users an error-free test configuration, and they can compare the results with their real ECU test. This significantly enhances reliability in evaluating test results and estimating the required follow-up tasks.

More information about CANoe .Ethernet at: <https://www.vector.com/int/en/products/products-a-z/software/canoe/option-ethernet/>

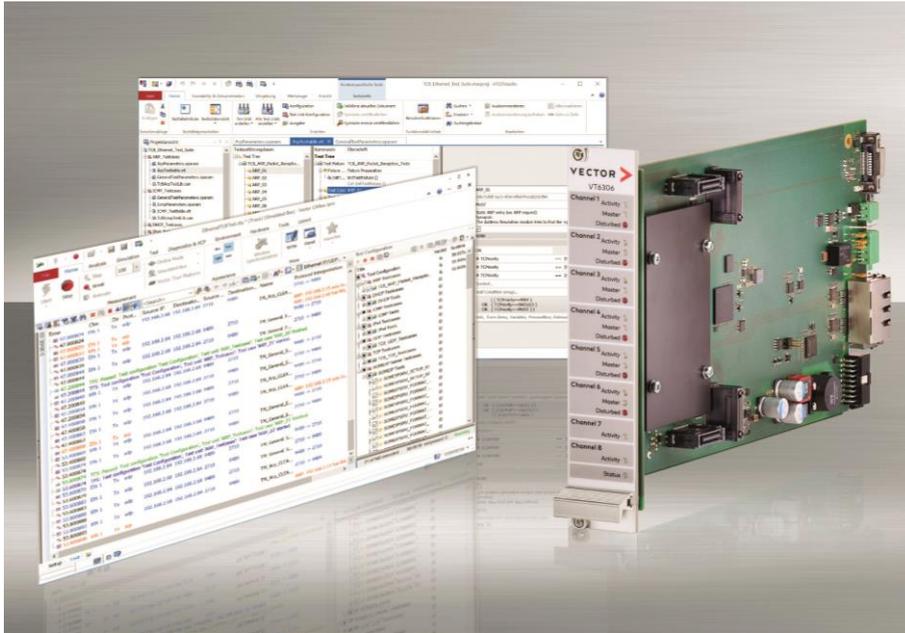


Figure 1: CANoe .Ethernet, vTESTstudio and VT System make it possible to conduct TC8 conformance tests

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Figure 2: Vector offers standard tools for testing Ethernet conformance according to TC8

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**About Vector:**

Vector 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 2,500 people with sales of EUR 654 million in 2018. With its headquarters in Germany (Stuttgart), Vector has subsidiaries in the USA, Japan, France, Great Britain, Italy, Austria, Sweden, South Korea, India, China, and Brazil.