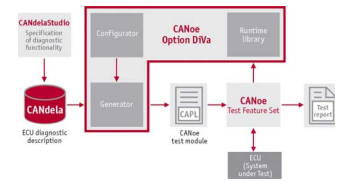


Test Cases Generated Automatically

Automated testing of the diagnostic protocol in automotive ECUs



Stuttgart, 04-18-2006 - The new software DiVa Option for CANoe makes it easy for automotive OEMs and suppliers to test implementation and integration of a diagnostic protocol in ECUs. With its new DiVa (Diagnostics Integration and Validation Assistant) Option Vector is extending the standard CANoe tool for automatic generation and execution of reproducible test cases.

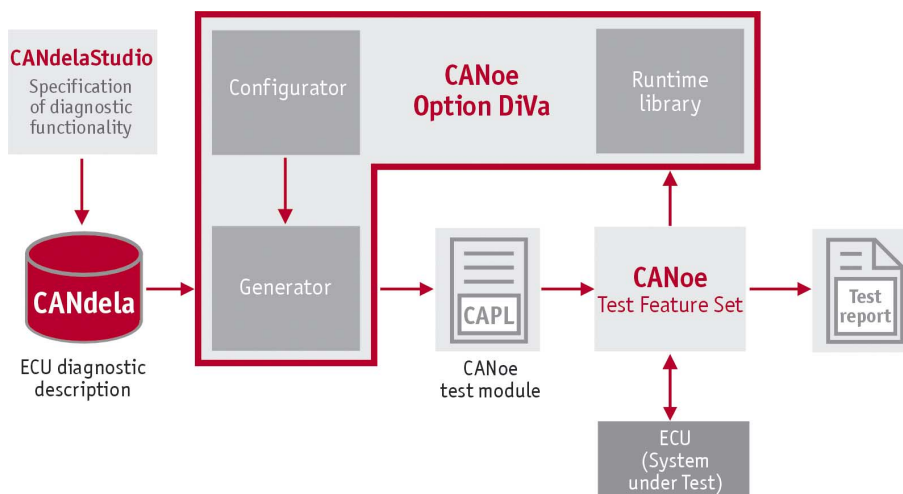
The DiVa Option guarantees broad and detailed test coverage for a diagnostic implementation of an ECU. It utilizes ECU diagnostic descriptions created with the Vector Tool CANdelaStudio to automatically generate test cases, and it generates a test specification for in-depth detailing of the individual test contents and test flow. The DiVa Option automatically creates the test environment for the standard CANoe tool from Vector. During execution CANoe documents test results in a clear and concise report.

The advantages of the DiVa Option lie primarily in selectability of test focus: "What should be tested?" and in configurability of test contents and scope, e.g. "Maximum test", "Good case test" or "Quick test".

The user can use the DiVa Option to adapt the test cases to be generated (e.g. by excluding critical services), and for documentation purposes by generation of a well-organized and detailed test specification. Test features can be tailored to the user's special requirements by

the use of test patterns. Adding application-oriented tests supplements the formal protocol test.

On the supplier side the DiVa Option supports the developer thoroughly in regression tests. The automotive OEM might use the DiVa Option for automated incoming goods testing when an ECU sample is delivered or for production release testing.



[Caption: CANoe DiVa Option: Configure, generate and execute test cases]

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About Vector Informatik GmbH (Revised: 04-01-2006)

Vector is the leading manufacturer of software tools and software components for networking of electronic systems based on CAN, LIN, MOST, FlexRay as well as multiple CAN based protocols.

Our know-how is applied to both our products and our comprehensive consultation services in systems and software engineering. Workshops and seminars round out our multifaceted training program.

Globally, customers in the automotive, commercial vehicle, transportation and control engineering industries rely on solutions and products offered by the autonomous and independently-owned Vector Group.

Founded in 1988, Vector Informatik currently has – together with Vector Consulting GmbH – 580 employees and annual sales of 89 million euros (2005).

Besides its corporate headquarters in Stuttgart, Vector is also represented by subsidiaries in the USA, Japan, France and Sweden.

The **“Diagnostics” product line** offers a comprehensive and process-oriented solution to optimizing diagnostics in the motor vehicle. The diagnostic data for an ECU are described in a uniform database under consideration of the specification, ECU-specific software and tester parameterization.