What is CANoe?
CANoe is the comprehensive software tool for development, test and analysis of individual ECUs and entire ECU networks. It supports network designers, development and test engineers at OEMs and suppliers throughout the entire development process – from planning to system-level test. Versatile variants and functions provide the appropriate project support. Therefore, its versatile functions and configuration options are used worldwide by OEMs and suppliers.

Overview of Advantages
> Only one tool for all development and testing tasks
> Easy automated testing
> Simulate and test ECU diagnostics
> Detect and correct error situations early in the development process
> User-friendly graphic and text-based evaluation of results
This means savings in time and effort while enhancing the quality of ECU development at the same time.
**Highlights of Version 11.0**

**New Communication Concept**
Adaptation of the internal communication concept for:
- Service-oriented communication (SOA)
- AUTOSAR Adaptive systems

**Security**
Secure communication with the System under Test based on:
- Transport Layer Security (TLS)
- Secure Onboard Communication (SecOC)

**Simulink Integration**
- Support of multi-tasking models
- Emulation of a RT-OS scheduler

**VT System**
- Setup and configuration of VT Systems without physical connection

**VH6501 CAN/CAN FD Disturbance Interface**
- Graphical panel for configuration of trigger and sequences to disturb CAN/CAN FD networks

**New Licensing and Installation Concept**
- Program characteristics is determined by available license only
- Activation and licensing in a single process
- Easy installation with MSI-compliant installer

Details in the webinar recording (50 min.): www.vector.com/cc_11.0

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**Application Areas**

**Analysis**
Analysis of the multi-bus communication of ECUs and entire systems at the developer’s desk as well as directly in the vehicle.

**Simulation**
Manually or automatically simulation from the underlying communication data base. This remaining bus simulation of communication behavior is the basis for the subsequent analysis and testing phases.
Via specific OEM Packages the CANoe simulation can be adjusted to the requirements of the respective OEM.
In combination with the hardware CANoe RT Rack you execute real-time relevant simulation and test functions on a dedicated platform, i.e. separate from the graphic user interface.

**Testing**
CANoe represents the state-of-the-art test environment. It is the ideal testing tool as well for the entire system as for individual ECU testing:
- ECU tests
- Module tests
- Integration tests
- Conformance tests

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**Support**

**Bus systems:**
- CAN, CAN FD, LIN, MOST, FlexRay, Ethernet, WLAN,
  Car2x ITS G5, AFDX®, J1708 and ARINC 429

**Protocols:**
- TCP/IP, SOME/IP, CANopen, J1939, ISO 11783, J1587,
  GMLAN, K-Line, CANaerospace and ARINC 825. Others upon request.

**Options:**
- AMD/XCP, .Scope, .Sensor and .DiVa

AFDX® is an Airbus’ registered trademark

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More information: [www.vector.com/canoe](http://www.vector.com/canoe)