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.

CANoe user interface with new communication structure for service-oriented communication, analysis windows and panels.
> Conformance tests
> Regression tests
> Testing of ECU prototypes
With increased real time requirements, you may also operate
CANoe as a HIL (Hardware-in-the-Loop) system.

**Stimulation**
CANoe offers many different ways to stimulate ECUs in
the network: the bandwidth ranges from predefined user
interfaces to different programming options.

**Diagnostics/Diagnostic Tester**
The Diagnostic Feature Set included with CANoe supports
you in analyzing diagnostic communication via the KWP2000
and UDS standards. CANoe may be used both as a diagnostic
tester and to simulate ECU diagnostics. In addition a complete
OBD-II Tester is integrated.

**CANoe Variants**

**CANoe pro**
The ‘professional’ variant is intended for users who want
to take advantage of the full range of CANoe functions.
Simulation models can be created with CAPL and .NET.
Test cases are easy to model with the Test Feature Set.

**CANoe run**
The ‘runtime’ variant is suitable for users who want to quickly
and easily test their ECU in interaction with a specified
remaining bus simulation. Configurations cannot be
changed, but analysis functions are fully available and
network nodes can be easily connected and disconnected.

**CANoe pex**
The ‘project execution’ variant provides a graphical user
interface exclusively. Simulation, test cases and results are
easily controlled without the need to specifically evaluate
the underlying messages.

**Supported Network Systems, Protocols and Options**

> **Network systems:**
  - CAN, CAN FD, LIN, MOST, FlexRay, Ethernet, WLAN,
  - Car2x ITS G5, DIN 70121, ISO/IEC 15118, GB/T 27930,
  - J1708, AFDX® and ARINC 429

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

> **CANoe options:**
  - AMD/XCP, DiVa, For EtherCAT, Scope, Sensor and
  SmartCharging

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