CANalyzer

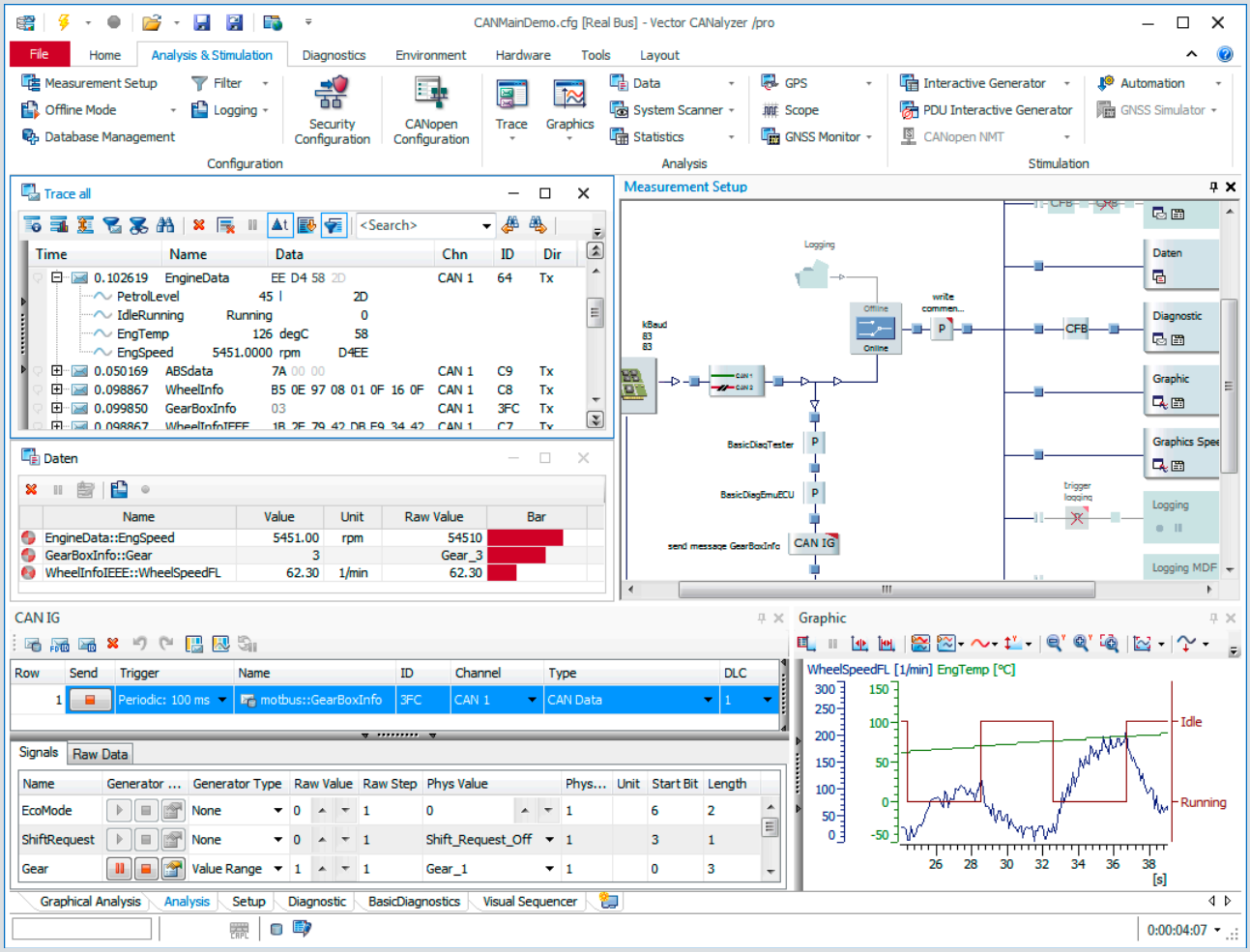
The Tool for Comprehensive ECU and Network Analysis

What is CANalyzer?

> CANalyzer is the comprehensive software tool for analyzing and diagnosing individual ECUs and entire networks.
> CANalyzer makes it easy to monitor, analyze and stimulate data traffic of different network systems.
> Powerful basic functions and user programmability cover all needs from simple network analysis to advanced troubleshooting in complex applications.

Overview of Advantages

> Easy observation, analysis and supplementation of the data traffic
> Intuitive operation
> Configurable function blocks such as Filter, Generator or Replay blocks according to the specific analysis task
> Seamless logging of network data and replay in the framework for offline analysis
> Flexible programmable with CAPL, e.g. for extensive analysis tasks



Standard CANalyzer configuration for analyzing a CAN system.

Highlights of Version 12.0

Distributed Applications

Identical operation of all hardware devices of the Vector Tool Platform (VTP):

> VTP devices can be uniformly configured regardless of the connection type (USB or Ethernet)
> Channel assignment is now centralized in the Platform Manager

Interactive Generator for AUTOSAR PDUs

> Interactive and intuitive stimulation of networks based on AUTOSAR PDUs
> Manipulating of PDU timing, PDU trigger und PDU payload

Option .Scope

> Easy switching between different Scope hardware configurations

Option .Ethernet

> Already integrated support for the next generation of Vector network interfaces

Application Areas

Analysis

As a CANalyzer user you can analyze the network communication of ECUs or entire systems at your development work place as well as directly in the vehicle.

Diagnostics/Diagnostic Tester

Using the Diagnostic Feature Set contained in CANalyzer, you can analyze diagnostic communication in accordance with the KWP2000 or UDS standard. Here, CANalyzer can be used as the diagnostic tester for ECU diagnostics. In addition, a complete OBD-II Tester is already integrated.

Logging

Use CANalyzer to log data and replay them for post-measurement analysis. The import/export functions allow time-independent processing of the logged network communication.

Stimulation

In addition to observing and analyzing the data traffic of ECUs, you can also use CANalyzer to influence the data traffic. To do this, you can simply send messages from preconfigured user interfaces or define signal values in CANalyzer and send the related messages.

CANalyzer Variants

CANalyzer pro

The 'Professional' variant supports all applications from simple observation of network traffic to complex analysis and stimulation of heterogeneous systems. All functions and extensions are offered with unlimited access.

CANalyzer exp

The 'Expert' variant is ideal for all standard applications, and it provides all functions and extensions with unlimited access. However, this variant does not support creating and executing CAPL programs.

CANalyzer run

The 'Fundamental' variant is appropriate for simple applications that can be covered with the standard interactive functions. Functions not supported are the programability, the diagnostic tester and operating panels.

Supported Network Systems, Protocols and Options

> Network systems:
CAN, CAN FD, LIN, MOST, FlexRay, Ethernet, WLAN, Car2x ITS G5, J1708, AFDX® and ARINC 429
> Protocols:
TCP/IP, SOME/IP, CANopen, J1939, J1587, K-Line and ARINC 825. Others upon request.
> Options:
.Scope

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More information: www.vector.com/canalyzer