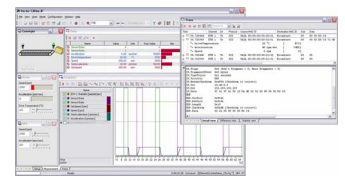


Developing and testing CAN and Ethernet based networks with a single tool

**CANoe.IP from Vector also supports development of Ethernet systems
and CAN tunneling**



Stuttgart, 07-29-2008 – CANoe.IP extends the development and test tool CANoe by adding specific functions for embedded Ethernet systems. As a multi-network tool, CANoe.IP is the natural choice for use in systems with different networks such as CAN and Ethernet. In addition, developers benefit from wireless receiving and sending of CAN messages from mobile or difficult-to-access CAN bus systems (CAN tunneling).

Option IP for CANoe and CANalyzer from Vector is a powerful and flexible extension for simulating, analyzing and testing embedded Ethernet systems. By supporting Ethernet and protocols based on it such as IP, TCP and UDP as well as CAN tunneling, its range of use has been extended to address new requirements such as those of Car2x or remote diagnostics.

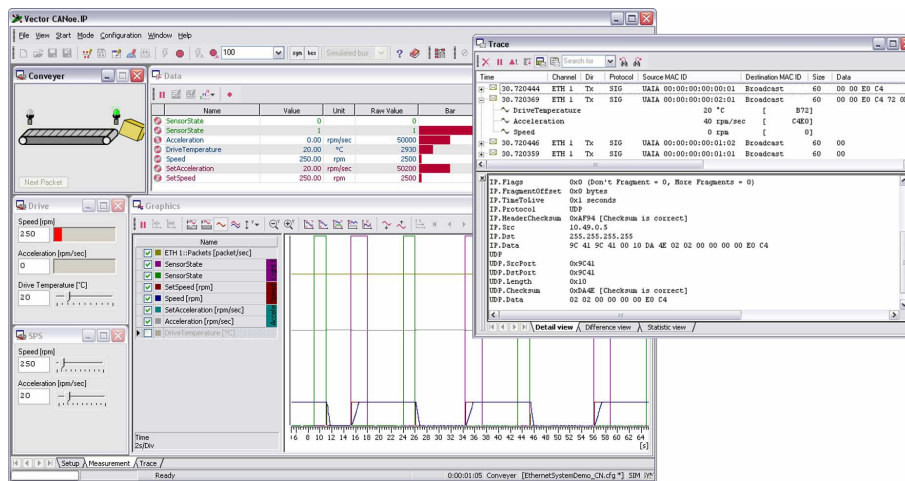
Currently, standards do not exist yet for Ethernet-based communication in the automotive field. Simple integration of OEM-specific protocols is therefore an important aspect that was considered in the design of CANoe.IP.

A focus on data contents such as signals, and their display and conversion to physical values, simplifies reliable handling of data and increases development efficiency. Especially when CAN-Ethernet gateways are used, CANalyzer and CANoe support the user in measuring gateway throughput times and in simulating gateways for vehicle diagnostics. All of these tasks can be performed with a single tool. This eliminates the need to train in numerous different tools. For example, the Trace Window enables analysis

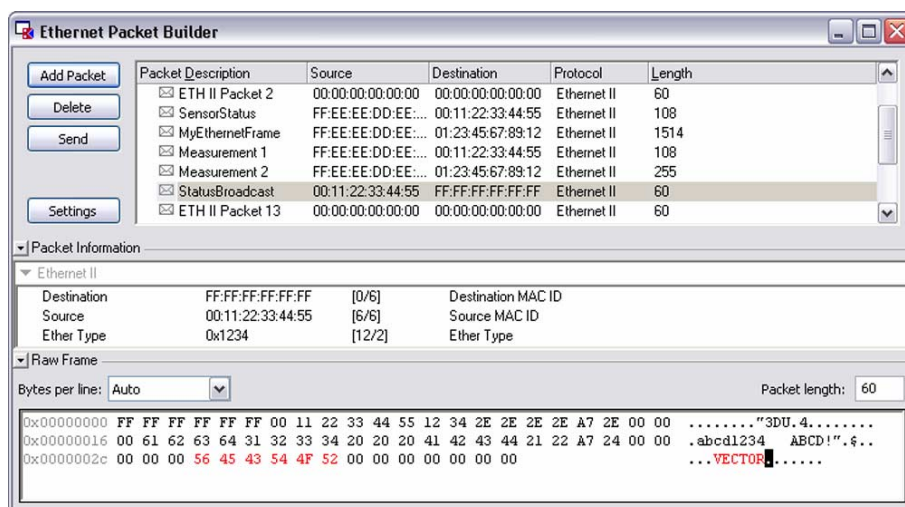
Press Release

of different communication channels such as CAN and Ethernet in one window and therefore with a common time base.

Option IP makes it possible to receive and send CAN messages by WLAN or Ethernet (CAN tunneling). In Car2Car and Car2x applications this makes it possible to simultaneously analyze data communication involving multiple vehicles. Other areas of application include field testing of agricultural and construction equipment, remote control of engine test benches and HIL tests as well as observation of crash tests.



[Figure 1: Signals are visualized and manipulated with the help of panels in CANoe.IP. Signals are displayed in data and graphic windows, and the Trace Window shows analysis of the Ethernet protocol and signal decoding.]



[Figure 2: The Ethernet Packet Builder makes it easy to create and send Ethernet frames.]

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Vector Informatik GmbH
Ingersheimer Str. 24
70499 Stuttgart
Germany
www.vector-worldwide.com

We would appreciate it if you would send us a specimen copy.
If you have any questions before publication we would be glad to assist you:

Vector Informatik, Germany (Article available in English and German)
Holger Heit,
Tel. +49 711 80670-567, Fax. +49 711 80670-58567,
E-mail: holger.heit@vector-informatik.de

Vector CANtech, North America (Article available in English)
Angela Aceti,
Tel. +1 248 504 6447, Fax. +1 248 449 9704,
E-mail: angela.aceti@vector-cantech.com

Vector France (Article available in French)
Françoise Grandjean,
Tel. +33 1 4 231 4000, Fax. +33 1 4 231 4009,
E-mail: francoise.grandjean@vector-france.com

Vector Scandinavia, Sweden (Article available in Swedish)
Henrik Pihlgren,
Tel. +46 31 764 76 10, Fax. +46 31 764 76 19,
E-mail: henrik.pihlgren@vecscan.com

Vector Japan (Article available in Japanese)
Takushi Hieda,
Tel. +81 3 5769 6981, Fax. +81 3 5769 6975,
E-mail: takushi.hieda@vector-japan.co.jp

Vector Korea (Article available in Korean)
Thomas Geyer,
Tel. +82 2 2028 0600, Fax. +82 2 2028 0604
E-mail: thomas.geyer@vector-korea.com

You can find this and other press releases on our homepage at:
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Vector Informatik is the leading producer of software tools and components for networking in electronic systems based on CAN, LIN, FlexRay and MOST as well as a number of CAN-based protocols.

This know-how is conveyed in the form of products or as a comprehensive consultation package with system and software engineering. Workshops and seminars round out our multifaceted training program.

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