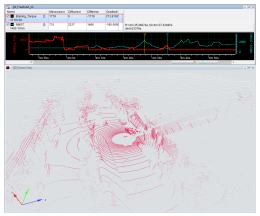
Vector presents CANape 16.0

Extended functions simplify the measurement and calibration of ECUs and ADAS sensors



Stuttgart, GERMANY, 2018-02-13 – Vector integrates many new functions in the new version of the CANape measurement and calibration tool. In this way, calibration engineers can simplify their work and interactions with their ECUs. The storage of configuration files in containers accelerates important project transfer operations. Improvements have also been made in the field of ADAS development, in particular for the visualization of LIDAR sensor data.

According to Vector, the day-to-day exchange of CANape projects with colleagues or customers/suppliers is now faster and more secure. The user saves all the relevant information and files in a data container at the touch of a button – so nothing is left out when projects change hands.

The new “vCDM” option assists calibration data management tasks to improve data handling efficiency and reliability. Every user works with completely up-to-date data sets and change tracking information. Users now benefit from the full functionality of the vCDM server-based management system (for example, submitting revised calibration data or retrieving work packages) directly in CANape without having to open an additional tool.

Measurements often lead to many sequential measurement files. However, for analysis and interpretation, these sequentially recorded files must be displayed as a continuous measurement. CANape 16.0 automatically loads a sequence of files and joins them into a single contiguous measurement that can be visualized and analyzed as a whole. As a result, the laborious manual alignment and merging of the files by the user is a thing of the past.

Reliable object detection using LIDAR sensors is a vital step on the way to autonomous driving. CANape now also captures LIDAR data at the same time as other ADAS systems and displays this data as a highly informative point cloud. Alongside the already available capture of raw radar data, LIDAR sensors from Velodyne (VLP-16, HDL-32E and HDL-64E), Ibeo LUX and Quanergy M8 are also supported. The Scene Window provides various views, as well as rotation and zoom mechanisms. These permit rapid access to optimized object recognition algorithm analyses and the results of multi-sensor data fusion.

To manage measurement data reliably and analyze it efficiently, CANape can be linked to Vector's vMDM measurement data management solution via the new “vMDM” option. The measurement data is transferred from the user's PC to the vMDM server either manually or automatically, for example directly after a

measurement in CANape. If there is no IP connection to the server during the test drive, vMDM buffers the upload and performs it automatically as soon as an active connection is available again.

Another new option – “Thermodynamic State Charts” – allows air conditioning and cooling system developers to view thermodynamic state charts such as pressures at specific volumes. It is possible to select the thermophysical properties from an extensive materials data library.

For more information visit: www.vector.com/canape

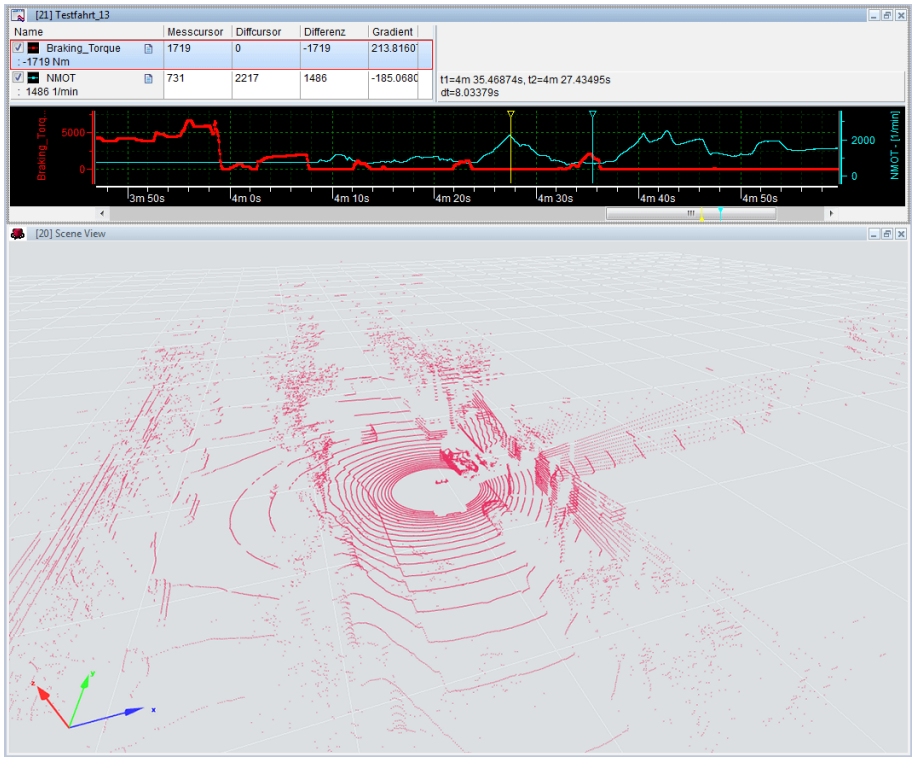


Figure 1: For ADAS development, CANape records LIDAR sensor data from Velodyne, Ibeo and Quanergy and displays this as highly informative point clouds.
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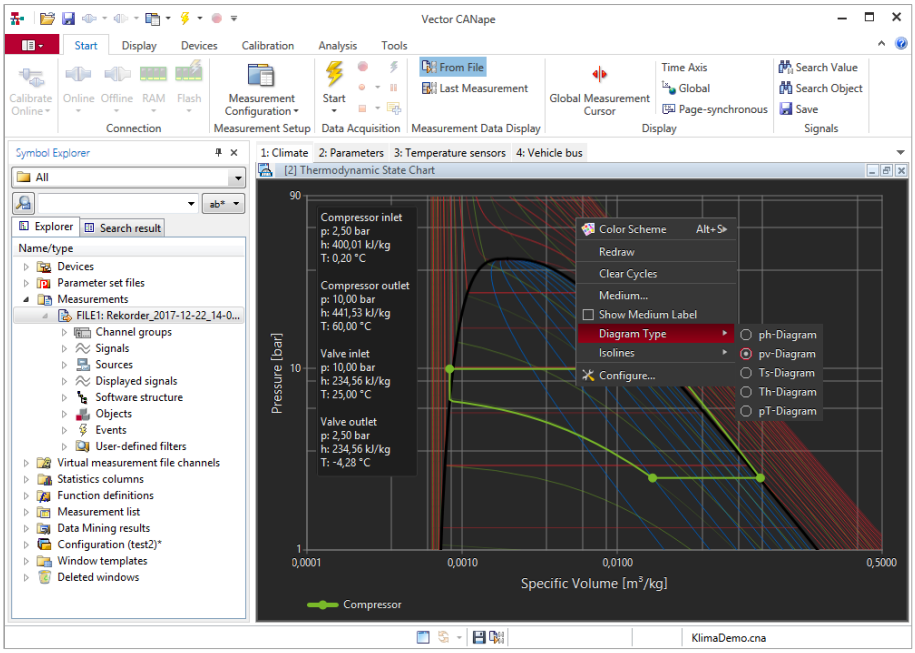

Figure 2: With the option “Thermodynamic State Charts”, air conditioning and cooling system developers can now also display thermodynamic data synchronously with other measurement data and generate state charts for online and offline analysis. Image rights: Vector Informatik GmbH.

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International Press Contacts:

Vector Informatik, Germany
Stuttgart
Mrs. Heike Schmidt
Phone: +49 711 80670-5356
Fax: +49 711 80670-585356
E-mail: heike.schmidt@vector.com

Vector North America
Detroit
Ms. Angela Ferrero
Phone: +1 248 504 6447
Fax: +1 248 449 9704
E-mail: angela.ferrero@vector.com

Vector Japan
Tokyo
Mr. Shinsuke Yokoyama
Phone: +81 3 5769 7825
Fax: +81 3 5898 6975
E-mail: shinsuke.yokoyama@vector.com

Vector Austria
Vienna
Mr. Christoph Dallmayr
Phone: +43 1 90160 10
Fax: +43 1 90160 9910
E-mail: christoph.dallmayr@vector.com

Vector Sweden
Gothenburg
Mr. Jan Schüldt
Phone: +46 31 764 76-05
E-mail: jan.schueldt@vector.com

Vector Korea
Seoul
Mr. Yongseong Kim
Phone: +82 70 8655 3320
Fax: +82 2 807 0601
E-mail: yongseong.kim@vector.com

Vector France
Paris
Mr. Loic Noury
Phone: +33 1 4 231 4002
Fax: +33 1 4 231 4009
E-mail: loic.noury@vector.com

Vector Great Britain
Birmingham
Mr. Simon Davies
Phone: +44 121 788-7921
E-mail: simon.davies@vector.com

Vector Italia
Milan
Mr. Marco Cavallaro
Phone: +39 02 678171-12
Fax: +39 02 678171-35
E-mail: marco.cavallaro@vector.com

Vector India
Pune
Mr. Pushkar Sonar
Phone: +91 20 6634 6625
Fax: +91 20 6634 6699
E-mail: pushkar.sonar@vector.com

Vector China
Shanghai
Ms. Zita Ye
Phone: +86 21 6432 5353 113
Fax: +86 21 6432 5308
E-mail: zita.ye@vector.com

Vector Brazil
Sao Paulo
Daniel Yamamoto
Phone: +55 11 5180 4553
Fax: +55 11 5181 7013
E-mail: daniel.yamamoto@vector.com

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