What is CANape log?

CANape log is the powerful combination of the CANape calibration and measurement tool with the Vector logger hardware and is part of the new Vector Smart Logger family. Use the same CANape project and configuration for both interactive use and stand-alone logging tasks. This provides you with a robust and easy-to-use solution for time-synchronous and high-performance recording of measurement data from a wide variety of sources. You benefit from CANape's wide range of functions, very high data rates and flexible scalability as a stand-alone logger in the automotive environment, especially for ADAS development.

Overview of Advantages

> **Comfortable and fast handling:** You can switch easily between Stand-alone and Interactive Mode. The user does not have to deal with an additional logging interface. You save time, because both approaches use the same hardware and cabling set up without modification.

> **Use-case-related interface:** Familiar CANape interface with full functionality for the expert as well as a simple Web-based interface for monitoring system status in stand-alone logger mode.

> **Simply solving complex tasks:** The available computing power of the logger hardware enables real-time evaluations, statistical real-time analyses and the calculation of virtual signals at runtime. You can achieve significant data reduction by formulating complex trigger conditions.

> **Measuring everything:** With CANape log you can measure and interpret complex protocols such as SOME/IP or customer-specific protocols online on a logger. The Vector network interfaces give you access to CAN (FD), Automotive Ethernet and FlexRay.

> **Adaptability:** Open interfaces enable the rapid integration of customer-specific protocols and sensors.

> **Scalability:** The logging solution can be distributed across multiple hardware platforms and storage media in the vehicle. This allows you to optimally use the PC resources and increase the measurement data rate.

> **Everything from a single source:** Logging software and hardware are optimally coordinated.

CANape log is a member of the new Vector Smart Logger family. The powerful combination of CANape and dedicated Logger hardware enables time-synchronous and high-performance recording of measurement data.
Application Areas
The focus of CANape log is on high-performance, time-synchronous recording of ECU data, bus data with complex protocols, raw and object data from ADAS sensors and very high-resolution analog signals. Virtual signals can be calculated during measurement. Test drivers benefit from the easy-to-use stand-alone operation for recording measurement data including a browser-based user interface for monitoring via mobile devices.

Operating Modes
In each of the different operating modes you can access the vehicle buses, ADAS sensors and control units connected to the logger hardware.

Stand-alone mode
CANape log performs measurement and recording autonomously and automatically. A mobile device such as a tablet or smartphone is used to monitor the autonomously running measurement. In addition to status outputs, such as data rate and available memory space, individual signal values can also be visualized. Interrupting and resuming the recording is also possible via the mobile devices.

Interactive Mode
With a laptop and CANape installed on it, you can connect to CANape log via Ethernet at any time. This gives you access to the full CANape interface on your laptop. In this mode, you work as a usual CANape expert while the project is running on the logger hardware. It is not necessary to change the cabling.

Basic Functions
> Convenient switching between connected CANape with complete user interface and full functionality and a simple web view in stand-alone operation
> High-performance, time-synchronous data recording of ADAS sensors (lidar, radar and video raw data), control units and networks in one vehicle
> Recording of signals, bus messages and ADAS-sensor-specific data, such as detected objects in road traffic
> Support of manufacturer-specific Ethernet protocols
> By saving the measurement data in the MDF4.1 standard, you can then use them directly in subsequent steps
> Support of complex protocols like SOME/IP
> Complex trigger conditions, calculations and online evaluations via CANape’s internal programming language CASL
> Creating logger configurations with CANape, which are executed on the logging hardware in stand-alone mode

More information: www.vector.com/canapelog

Supported Vector Logger Hardware
Depending on the use-case, different hardware platforms are available:

<table>
<thead>
<tr>
<th>Logger Hardware</th>
<th>VN8911</th>
<th>VP6400</th>
<th>VP7400</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data rate</td>
<td>up to 15 MByte/s</td>
<td>up to 500 MByte/s</td>
<td>up to 1 GByte/s</td>
</tr>
<tr>
<td>Memory</td>
<td>SD card 128 GByte</td>
<td>Hard disk slot up to 4 TByte</td>
<td>Hard disk slot up to 32 TByte</td>
</tr>
<tr>
<td>Scalable solution</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Hardware interfaces</td>
<td>FlexRay, CAN(FD) and VX1000 family</td>
<td>All Vector interfaces for CAN (FD), Automotive Ethernet, FlexRay, VX1000</td>
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</tr>
<tr>
<td>Application areas</td>
<td>Bus and ECU logging</td>
<td>ADAS logging</td>
<td>Complex, high-performance ADAS logging</td>
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