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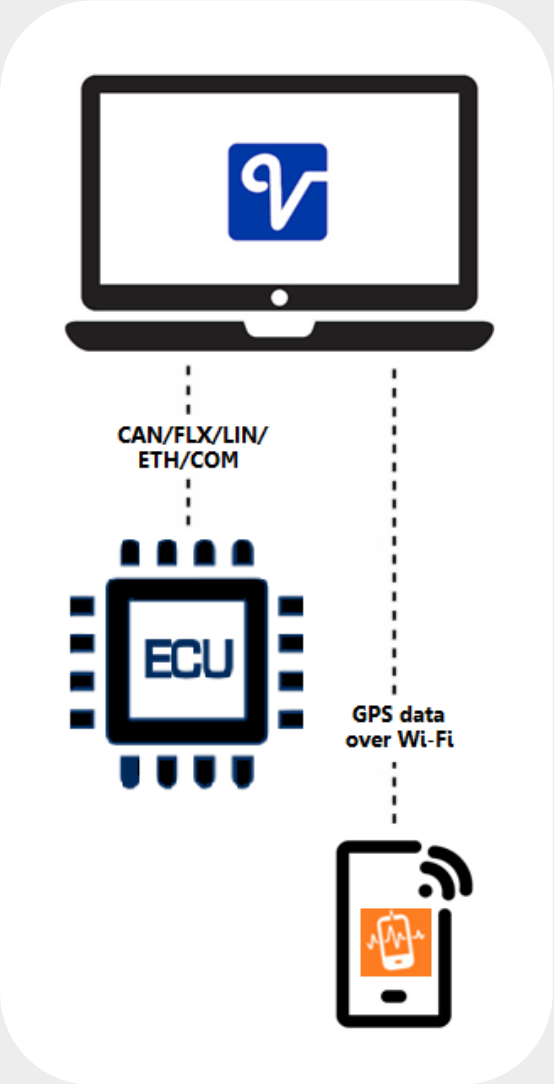
PHINIA Measument and Calibration Tool: VISU

VISU is the PHINIA product for calibration of ECU parameters. It supports online and offline adjustments of characterictic values, curves and tables. In addition to the parameter optimization, VISU allows to acquire measurement signals from ECUs (test environment or vehicle).



Key Features:

- Compatible with several automotive standards
- Measurement data from different flows can be recorded time-synchronously.
- Quick to set up a measurement
- User friendly measurement environment
- Easy to exchange calibration and measurement data in MDF format
- Compatible with various CAN hardware, Flexray hardware or ethernet interfaces
- Support dynamic display of specification's model

Application Areas:

- Measurement
- Calibration
- Flashing
- Test Bench interface
- Data analysis

Supported Bus Types vs. Protocols:

	CCP	XCP	UDS	Monitoring
CAN	✓	✓	✓	✓
FlexRay		✓		✓
LIN				✓
Ethernet		✓	✓	
Serial		✓		

System Requirements: *(min - recommended)*

- Processor: Intel Core 2.33 GHz - Intel Core i5 1.06 Ghz
- Memory (RAM): 2 GB - 4 GB
- Hard Drive: 0.3 GB - 2 GB
- Operating System: Windows 10/11
- .NET9 Desktop Runtime

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Core Functionalities:

- **Calibration:** Online/offline calibration, 2 page (work / reference page) / 1 page concept, support of dependent and adaptive parameters, editors for scalars and multidimensional parameters (1D and 2D).
- **Measurement Data Acquisition:** Time synchronous acquisition and online display of measurement values, calibrate parameters (scalars, characteristic curves, maps), XCP stimulation, cold start acquisition.

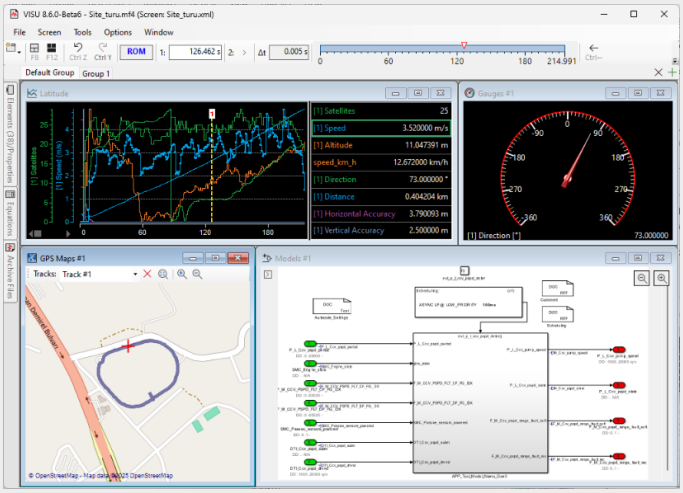
  Record all variables to unlimited large measurement file using ASAM MDF v4. Compress, add text or voice markers, numerous trigger options.
  - Bus signals or raw CAN frame recording parallel to CCP/XCP measurement.
  - Polling DAQ support when the ECU rasters are not sufficient.
  - X-ETK connection using XCP on Ethernet.
- **GPS Recording:** Record GPS data from PhyPhox mobile app, or any GPS device with CAN support. Display the position and route on map.
- **Measurement Data Analysis:** XT/XY-oscilloscope, table display, samples display, cursor, statistical analysis, calculated signals (equation) on the fly, various export features.
- **Flash Programming:** ECU-specific flash programming via PHINIA Flasher tool.
- **Experiment Environment:** Numerous user-friendly display and control elements, light and dark view.
- **Hardware configuration:** Configuration of ECU and bus interfaces, and measurement modules, hardware auto-scan.
- **Calibration Data Management:** List, compare and copy calibration data, functional view, support of maturity levels, version management of calibration data sets.
- **Bus Monitoring:** Advanced bus monitoring features for CAN/FlexRay/LIN buses, grouped or chronological view of traces, J1939 (/21 & /22) transmission and monitoring.
- **ECU Diagnostics:** Via PHINIA Flasher tool, error memory reading and clearing, validation of diagnostic services, Automation of service sequences, support of ODX into diagnostic script.
- **Test Automation:** Remote control via ASAP3 and iLinkRT.

Interfaces:

- **ECU Calibration:** CAN (CCP, XCP, UDS), CAN FD (XCP, UDS), Ethernet (XCP, UDS), FlexRay (XCP), Serial port (XCP), X-ETK Interface (board). ETK and F-ETK interfaces are not supported.
- **Bus Monitoring:** CAN, CAN FD, FlexRay, LIN
- **Measurement Devices:** CAN (Vector, Peak, Softing, Kvaser, any SAE J2534 compliant device), CAN-FD (Vector, Peak, Kvaser), Flexray (Vector), LIN (Vector, Intrepid, Peak)
- **Test Bench / Automation:** ASAM ASAP3 (v2.0, v2.1.1, v3.0), iLinkRT v2.0

Data Exchange Standards:

- **ECU Description:** ASAM MCD-2 MC (A2L) up to 1.7.1
- **CAN Bus Description:** DBC, FIBEX (From v3.0.0 to v4.1.2), ARXML (AUTOSAR 4.2.2 schema)
- **FlexRay Bus Description:** FIBEX (From v3.0.0 to v4.1.2), ARXML (AUTOSAR 4.2.2 schema)
- **LIN Bus Description:** LDF (in conformity with LIN 2.2 Rev A)
- **Calibration Data:** Intel HEX, Motorola S19, S28, S37
- **Calibration Data (Physical Representation):** DCM, CVX, PaCo, ASAM CDF (v2.0, v2.1)
- **Measurement File Data:** ASAM MDF (v3, v3.3, v4.0, v4.1), ASCII
- **Bus Trace File:** BLF, ASC



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