

## TRACE-CHECK accelerates in-depth analyses

TRACE-CHECK is a tool that automatically and thoroughly analyzes measurement data. It is specifically useful, wherever you need test results in the form of reports, which are easy to read and to interpret – no matter where the data comes from or into which tool chain you plan to integrate the tool.

### Key features at a glance

- Easy analysis specification via
  - Triggered analyses
  - Timing diagrams
  - Python interface
- Support for all common recording formats
- High reusability of analyses
- Intuitive graphical user interface
- Clear presentation of results
  - Transition to the interactive SignalViewer AutoSPY
  - Plots enriched with result data

### Supported formats

#### Bus description:

- ARXML (Classic Platform) 4.1.1 to 4.4.0
- ARXML (Adaptive Platform) to 10/18
- DBC
- FIBEX for 4.1.1/FIBEX for Ethernet 4.1.2
- FIBEX for AUTOSAR Diagnostic Log and Trace (DLT): Analyse non-verbose Mode
- LIN Description File (LDF)

#### ECU description:

- ASAP2 Database (A2L)
- Executable and Linkable Format (ELF)
- Intel HEX
- Motorola S19

#### Signal-based trace formats:

- AS3TRACE (TraceTronic)
- CSV
- MAT (MATLAB/Simulink, ControlDesk)
- MDF 3.0, 3.1, 3.2, 3.3, 4.0, 4.1
- STI, STZ 2.0.1, 2.1, 2.2 ASAM XiL-API
- TDMS (National Instruments)

#### Bus logging

- ASC (Vector)
- BLF (Vector)
- MDF 4.0, 4.1
- TTL (TTTech)

#### Ethernet

- PCAP, PCAPNG (TraceTronic, Wireshark)
- BLF (Vector)
- DLT

#### Middleware/Cosimulation

- ADTF2
- AS3TRACE (FEP)
- eCAL 5.0, 5.1

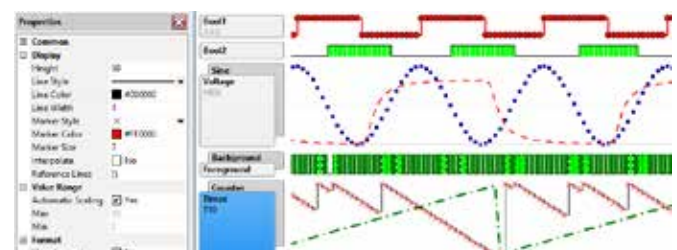
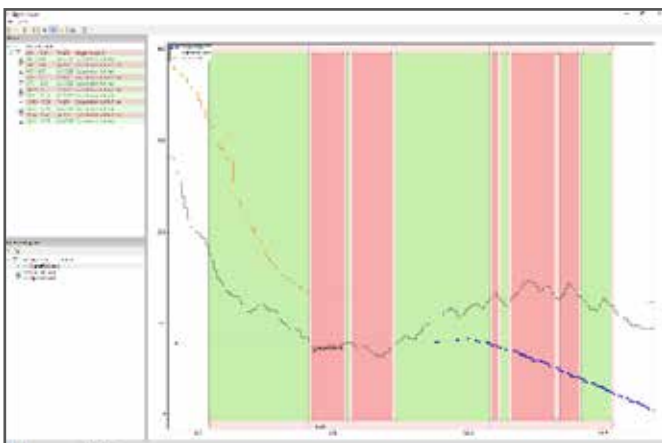
#### ADAS

- ERD (CarSim)
- ERG (CarMaker)
- OSI/TXT (ASAM OSI)
- RDB (VTD)

#### Multimedia

- Audio: FLAC, WAV
- Video: AVI, MP4, MKV, MTS

Other formats supported on request.



## Interfaces

**Automation interfaces** (COM, REST) enable all TRACE-CHECK work steps to be controlled, say for a seamless and fully automatic operation in an existing tool chain. On request we can also provide an adapted version of the **ECU-TEST Jenkins plug-in**.

## Means of specification

Various means of specification are available for the user to formalize requirements in the form of analysis components:

Any logical expressions from signal names, package variables and internal functions can be used in **trigger blocks** and **calculation steps**.

With **timing diagrams** both simple and complex signal relationships can be clearly and at the same time formally described.

The **Python interface** allows the users to implement the analysis specifications themselves. In doing so, they can focus on the actual requirements, as many tasks – from processing traces via the interpolation of different time axes to generating report entries – are

carried out automatically by TRACE-CHECK.

For the efficient processing of the signal data the user is provided with all the functionalities of the program libraries NumPy and SciPy.

In addition, TRACE-CHECK provides various methods for synchronizing multiple recordings:

- AUTOSAR Time Synchronization/PTP
- EqualnessMatching
- ExpectationMatching
- LeastSquares
- Offset

## System requirements

- OS: Windows 10, 64 bit
- Free hard disk capacity: at least 3 GB
- RAM: at least 2 GB
- Screen resolution: at least 1200 x 800 pixel

