

ECU-TEST makes automation easy

With ECU-TEST you can intuitively create test cases for automotive software in every development phase and run them automatically – even without any prior knowledge of test automation and programming. We have designed the tool in such a way that the test quality is kept exceptionally high at all levels, although the effort it takes to use it is extremely low.

Key features at a glance

- Supports a broad range of test tools and test environments (MiL/SiL/PiL/HiL/vehicle)
- Uniform and effective automation of the entire test environment
- Smooth collaboration through Diff and SCM integration (GIT, SVN)
- Automation of distributed test environments
- Intuitive graphical user interface
- Generic test-case description

Integrated trace analysis module (see TRACE-CHECK data sheet):

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

Interfaces and expandability

ECU-TEST can be readily integrated into existing tool chains:

- COM-API for remote control
- Object API (for Python, Java und .NET) for generating and manipulating all artifacts (test cases, configurations, etc.)
- Report generators for different output formats
- APIs for different test-case generators
- Jenkins plug-in
- Easy integration of existing libraries (Python, C/C++, .NET)
- User-specific tool connections and test steps

Supported formats and standards

Standards:

- ASAM ACI 1.4
- ASAM XiL API version 2.0.1 and 2.1.0 (MA, EES, ECUC/M Port)
- ASAM ATX
- AUTOSAR Classic & Adaptiv
- DoCAN (ISO 15765-3)
- FMI 1.0/2.0
- ISO-TP (ISO 15765-2)
- KWP2000 (ISO 14230)
- OpenSCENARIO

- OSI (Open Simulation Interface)
- PLP (Probe Logger Protocol)
- ReqIF 1.2
- SAE J1939
- SAE J2534 PassThru
- UDS (ISO 14229-1)

Bus description:

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

ECU description:

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

Supported trace formats

Signal-based trace format:

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

Buslogging:

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

Ethernet

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

Middleware/Cosimulation

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

ADAS

- ERD (CarSim)
- ERG (CarMaker)
- RDB (VTD)

Multimedia

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

Other formats supported on request.

Supported hard- and software

- A&D: iTest
- AKKA: Gigabox
- ASAM: ACI
- ASAM: XIL
- ASAP: STEP
- ATI: VISION
- AVL: LYNX
- AVL: PUMA
- Beckhoff: TwinCAT
- Digitalwerk: ADTF
- dSPACE: ControlDesk
- dSPACE: ModelDesk
- dSPACE: MotionDesk
- EA: UTA 12
- ESI: SimulationX
- ETAS: BOA
- ETAS: INCA
- ETAS: LABCAR
- ETAS: LABCAR-PINCONTROL
- FEP
- FEP3
- FEV: Morphée
- HMS: ACT - Restbussimulation
- HMS: Bus interfaces
- IPG: CarMaker
- JS Foundation: Appium
- KS Engineers: Tornado
- Lauterbach: TRACE32
- MAGNA: BluePiraT
- Mathworks: MATLAB® & Simulink
- Mechanical Simulation Corporation: CarSim
- MicroNova: NovaSim
- Modelica Association: FMI
- NI: LabVIEW
- NI: VeriStand
- NI: VISA
- Opal-RT: RT-LAB
- PEAK: PCAN
- PLS: UDE
- QUANCOM: QLIB

- RA Consulting: DiagRA D
- SAE: PassThru
- Scienlab: CDS
- Scienlab: ESD
- Softing: CAN L2 API
- Softing: DTS
- Softing: EDIABAS
- Speedgoat: Simulink RT
- Synopsys: Silver
- Synopsys: Virtualizer
- The GNU Project: GDB
- TraceTronic: cTestBed
- TraceTronic: Ethernet
- TraceTronic: Multimedia
- TraceTronic: RemoteCommand
- TraceTronic: Serial interface
- TraceTronic: SSH
- TTTech: TTXConnexion
- Vector: CANalyzer
- Vector: CANape
- Vector: CANoe
- Vector: DYNA4
- Vector: XL API
- ViGEM: CCA
- Vires: VTD
- VW: ODIS
- X2E: Xoraya

Test Management Tools

- Broadcom Rally Software
- IBM RQM
- Micro Focus ALM / HP Quality Center
- Micro Focus Octane
- PTC Integrity LifeCycle Manager
- SIEMENS Polarion ALM
- Test42

Source Code Management Tools

- Apache Subversion
- Git

On request we will gladly realize the linkage of your specific hardware or software.

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