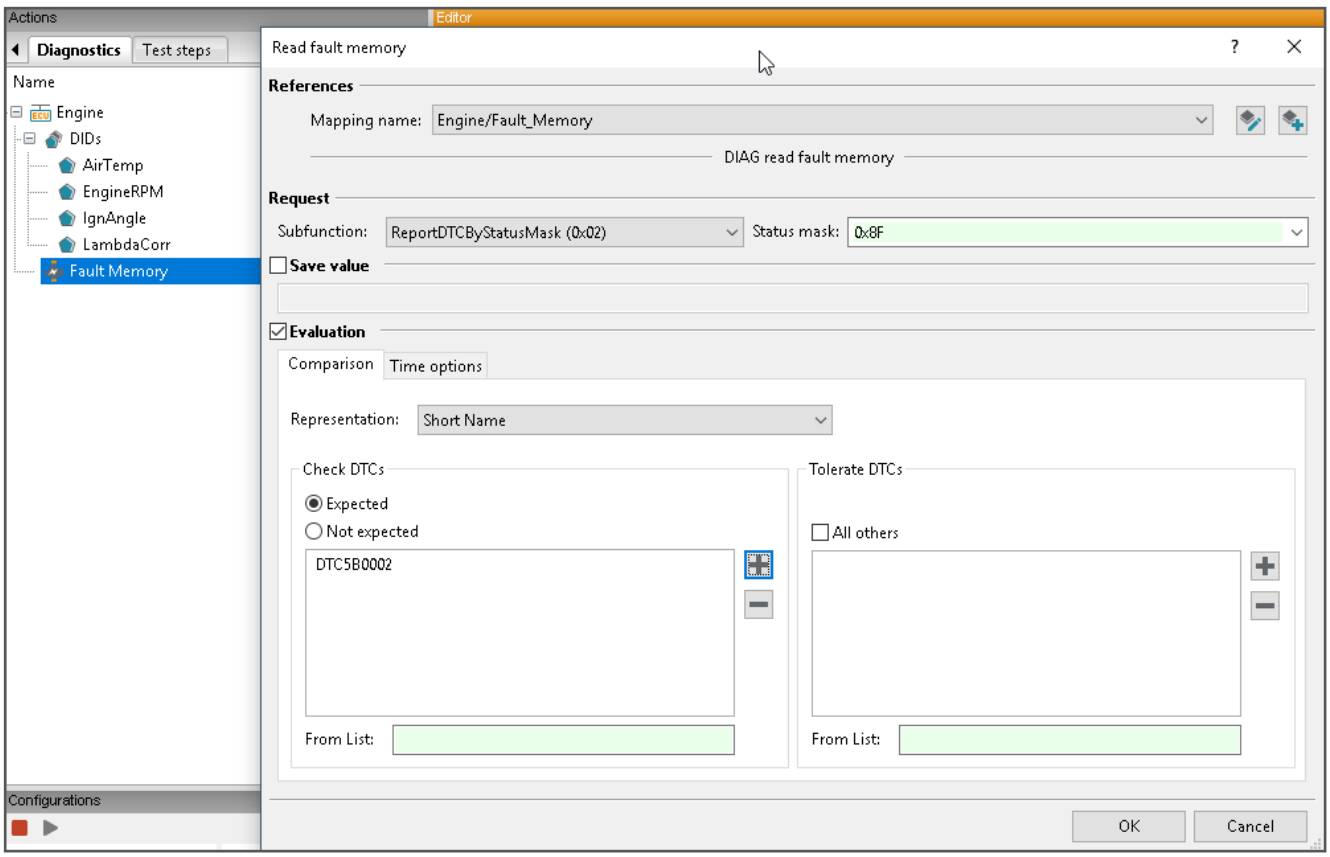
DATA SHEET

ECU-TEST diagnostics add-on

With the diagnostics add-on for ECU-TEST it is possible to use symbolic vehicle diagnostic functions automatically without additional software. Deeper protocol knowledge is not required. ECU-TEST executes the diagnostic session handling automatically. The diagnostic access is realized based on the ECU-TEST support for hardware-related bus connections for CAN(-FD) e.g. Vector, PassThru-API (SAE J2534), ETAS-BOA, Peak, Gigabox, Xoraya, etc.
If you are interested in the add-on, please contact sales@tracetronic.de.



Key features at a glance

Symbolic access

Read fault memory entries
- Is performed using an intuitively usable test step
- Allows a simple formulation of the expectation for Diagnostic Trouble Codes (DTCs)

- DTCs Diagnostic Trouble Codes can be specified via different representations:
  - OBD DTC Definitions (PCBU-Code)
  - DTC Name / Descrip tion
  - DTC Number

- Clear presentation of DTC information in the test report
- Supported subfunctions:
  - ReportDTCByStatusMask ($02)
  - ReportSupportedDTCs ($0A)
  - ReportFirstTestFailedDTC ($0B)
  - ReportFirstConfirmedDTC ($0C)
  - ReportMostRecentTestFailedDTC ($0D)
  - ReportMostRecentConfirmedDTC ($0E)
  - ReportMirrorMemoryDTCByStatusMask ($0F)
  - ReportEmissionsOBDDTCByStatusMask ($13)
  - ReportDTCWithPermanentStatus ($15)

Read and write Data Identifier (DID)
- Clear presentation of DIDs in the diagnostic tab
- Simple status change/query via mapping test steps

Calling of routines (Routine Control)
- Starting, stopping and querying diagnostic routines
- Support for parameterization and expected value specification of routine calls

Job access for additional UDS functions

Diagnostic and Communications Management
- Diagnostic Session Control ($10)
- ECU Reset ($11)
- Security Access ($27)
- Tester Present ($3E)

Data Transmission
- Read Data By Identifier ($22)
- Read Memory By Address ($23)
- Write Data By Identifier ($2E)
- Write Memory By Address ($3D)

Stored Data Transmission
- Clear Diagnostic Information ($14)
- Read DTC Information ($19)

Remote Activation of Routine
- Routine Control ($31)

Other
- Negative Response ($7F)

J1939

Communication jobs with transport protocoll
- Send
- Receive
- StandardPGNRequestResponse

Diagnostic jobs
- DTCRequest (DM1 and DM2)
- ClearDTC (DM3)
- MemoryAccess (DM14, DM15, DM16)

Support for the analysis of J1939 ASC bus recordings

Supported formats and standards

Standards:
- UDS (ISO 14229-1)
- KWP2000 (ISO 14230)
- ISO-TP (ISO 15765-2:2016) for CAN and CAN-FD
- DoCAN (ISO 15765-3)
- OBD DTC Definitions (ISO 15031-6 / SAE J2012)
- SAE J1939

Diagnostic descriptions:
- Open Diagnostic Data Exchange Format 2.2.0 (ODX)
- Global Diagnostic Data Export 4.1 (GDX)

Coming soon

- DoIP (ISO 13400-2)
- OBD (ISO 15031-5 / SAE J1979)