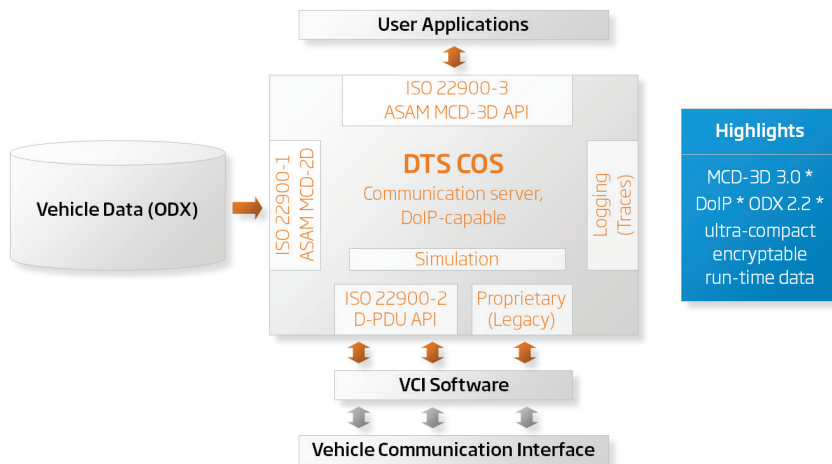


DTS 8 COS

Communication server for vehicle diagnostics based on the latest ASAM MCD-3D 3.0 standard

Using the standardized runtime system DTS COS for diagnostic communication makes it easier for users to develop their own applications and thus focus on the actual tasks and quickly get results.



Based on the Latest ISO Standards

The diagnostic runtime system DTS COS is part of Softing's Diagnostic Tool Set product family. Verified by extensive tests in accordance with the ASAM test suite, it most closely corresponds with all relevant standards and at the same time offers outstanding performance. DTS COS makes it possible to use all kinds of bus protocols via different manufacturers' interfaces. It can be used to access several ECUs at the same time or the whole vehicle via different bus systems. If necessary, parallel communication is also possible via several vehicle interfaces.

Top Performance and User-friendly Operation

System and project settings can be managed centrally using the **System Configurator**. Assistants are available to help import data and create new projects. The **Database Differ** makes it possible to compare databases in the runtime formats and easy to quickly find changes made between the different vehicle statuses. Using a special "simulated" interface, test sequences and user applications can even be tested without real ECUs. Extensive trace functions enable developers and engineers to quickly detect errors in their own applications or in the communication with the ECUs. Trace files can be analyzed "offline" with the **Analyzer**.

Faster Creation of Individual Applications

The **API Developer Kit** beside extensive documentation and programming examples comprises a special test application. It makes it possible for developers to establish communication to the vehicle via the runtime system immediately, i.e. without their own application development. Using a special Configuration API, the runtime system can be configured entirely by an external application in terms of interfaces, projects etc.

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DTS

AREAS OF APPLICATION

- **Engineering/Test:** Release of ECUs, creation and validation of test sequences, HiL systems
- **Manufacturing:** End-of-line test systems, test benches, programming stations
- **After-Sales Service:** Diagnostic runtime system for service testers

BENEFITS

- **Faster and more affordable engineering** as well as less dependency on individual tool suppliers as based on the latest standards
- **No detailed knowledge of bus protocol necessary** as access takes place symbolically
- **Downward compatibility:** ODX 2.0.1 vehicle data and DTS 7 projects based on standardized bus system interfaces can still be used
- **Ultra-compact runtime format** reduces memory requirements and enables faster updates in the field
- **Considerable increase in security** thanks to OEM-specific runtime data encryption

Technical Data

Standard compliance, e.g.	ISO 22901-1/ASAM MCD-2D, ODX V2.2.0 - Open Diagnostic Data Exchange, ISO 22900-3/ASAM MCD-3D application interface V3.0.0, ISO 22900-2 (D-PDU API) via CAN, K-line and Ethernet (DoIP Collection/Entity/Group/Vehicle), ISO 13400 (DoIP) - Diagnostics over Internet Protocol
Hardware interfaces	Supported interfaces: see data sheet Diagnostic Tool Set 8 - System Overview Parallel communication: ≤ 4 diagnostic interfaces (more on request)
Protocol templates	As base for protocol tests and the creation of ECU data by the user for D-PDU API bus system interface: ISO_15765_3_on_ISO_15765_2, ISO_14230_3_on_ISO_15765_2, ISO_14230_3_on_ISO_14230_2, ISO_OBD for K-line and CAN, ISO_14229_5_on_ISO_13400_2
Optimized runtime format	Vehicle data, flash data and jobs 60..180 times more compact in comparison to ODX data (depending on OEM and ODX structure)
Encryption	Planned: Runtime data can be encrypted OEM-specifically (optional), based on DTS licensing mechanism via dongle or diagnostic interface
General PC requirements	Processor clock ≥ 1.5 GHz - depending on the system configuration and complexity of ODX data, RAM: ≥ 500 MByte for Windows XP, ≥ 1 GByte for Windows 7 - depending on ODX data, For hardware interfaces: PCI-/PCMCIA slot, USB-/LAN port, wireless LAN or Bluetooth
Operating systems	Windows XP (32-bit, SP3) and Windows 7 (32 + 64-bit, SP1),

Order Numbers

DTS8L+COS	Stand-alone communication server DTS 8 COS for vehicle diagnostics. Beyond the function scope of the DTS Base System, based on the ODX data user applications can access symbolically the MCD 3D application interface. Note: Softing's VCI software is not included.
DTS8L-API-DK	Planned: API Developer Kit for application development based on the communication server of DTS 8 COS. Including test application, configuration API and interface description files to access the COM API. Documentation: ASAM MCD-3D reference, C++/JAVA/COM API with Softing's extensions. Sample applications: Java, Python, Visual Studio 2010 Solution for COM, Visual Basic.
DTS8S-COS-START	Start package with max. 40 h instruction and application support by telephone/ e-mail/ web conference or in person at Softing in Haar incl. one-on-one handover and documentation briefing.

Supplementary Products and Services

S-DONGLE	Micro USB license dongle, as an alternative to licensing on a hardware interface
DTS8S-CRYPT-SETUP	Planned: Initial setup for OEM-specific encryption of runtime data in the communication server (one-off costs per OEM)
DTS8L-CRYPT-[OEM]	Planned: Reading and writing OEM-specific encrypted runtime data (requires DTS8S-CRYPT-SETUP one-time)
DTS8L+BS-AUT	DTS 8 Automation - universal interface for manufacturing and test bench applications with diagnostic communication. Runtime for C, COM and LabVIEW applications or OPC server interface based on the DTS Base System.