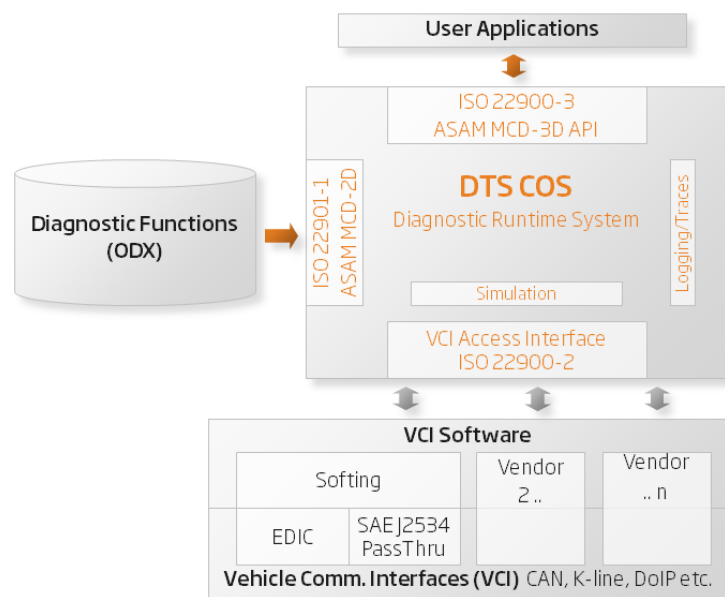# DTS 8 COS

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.

Accessing symbolically the ECU and vehicle information

The diagnostic runtime system DTS COS is part of Softing's Diagnostic Tool Set product family. It corresponds extensively to the DTS Base System. Beyond its function scope, based on the ODX data user applications can symbolically access the ECU and vehicle information via the MCD-3D application interface. However, neither Softing's VCI software nor the OTX runtime system are included in the scope of delivery.
DTS COS makes it possible to use most diverse 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.

Verified by ASAM test suite

Verified by extensive tests in accordance with the ASAM test suite, DTS COS most closely corresponds with all relevant standards and at the same time offers outstanding performance. Comprehensive trace functions enable developers and engineers to rapidly detect errors in their own applications or in the communication with ECUs.

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.

Technical Data

Partially based on the DTS Base System	See separate data sheet: Diagnostic Tool Set 8 – System Overview
Standard compliance, e.g.	ISO 22901-1/ASAM MCD-2D, ODX V2.2.0 and 2.0.1 (Open Diagnostic Data Exchange), ISO 22900-3/ASAM MCD-3D V3.0.0 application interface, ISO 22900-2 (D-PDU API)
Applications in Production and Aftersales	Usage of diagnostic interfaces is recommended, other interfaces need to be validated for the actual case of operation
Operating systems	Additionally on request: Windows XP (32-bit, SP 3), Linux and Android
Licensing	All DTS Base System components (e.g. Database Differ and Analyzer) are available with standard licensing via USB dongle or hardware interface
PC remote access	Supported if a hardware interface is used for licensing, on request only if an USB license dongle is used (needs to be indicated if ordering)

Order Numbers

DTS8L+COS	Communication server DTS 8 COS for vehicle diagnostics. Beyond the function scope of the DTS Base System, user applications can symbolically access via the MCD-3D application interface the ECU and vehicle information based on the ODX data. Note: Neither Softing's VCI software nor the OTX runtime are included in the scope of delivery.
DTS8L+COS-LITE	Communication server DTS 8 COS for vehicle diagnostics with restriction: the used ODX data or DTS projects must not contain more than one single ECU
DTS8L-API-DK	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, C#, C++
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.
DTS8S-COS-SMR-SETUP	Initial process consulting regarding the usage of the modular ultra-compact runtime data format SMR and its creation with the transformer application (one-off costs per OEM)
DTS8L-COS-SMR	Option: Generating the modular optimized runtime data format SMR (requires one-time DTS8S-COS-SMR-SETUP)

Supplementary Products and Services

S-DONGLE	Micro USB license dongle, as an alternative to licensing on a hardware interface
DTS8S-CRYPT-SETUP	Initial setup for OEM-specific encryption of runtime data (one-off costs per OEM)
DTS8L-CRYPT-[OEM]	Reading and writing OEM-specific encrypted runtime data (requires DTS8S-CRYPT-SETUP one-time)
DTS8L+AUT	DTS 8 Automation provides for manufacturing and test bench applications particularly simple access to diagnostic communication via standard interfaces widely used in industrial automation: API for C and COM, LabVIEW VI and OPC server
DTS8L+MONACO	All-in-one engineering tester DTS 8 Monaco for diagnostic and control functions of vehicle ECUs which comprehensively covers all tasks in the areas of engineering, testing and preparation of manufacturing tests
DTS8L+VENICE	Powerful authoring system DTS 8 Venice for ODX 2.2 and 2.0.1 for convenient creation, testing, management and maintenance of diagnostic functions of single ECUs or a complete vehicle