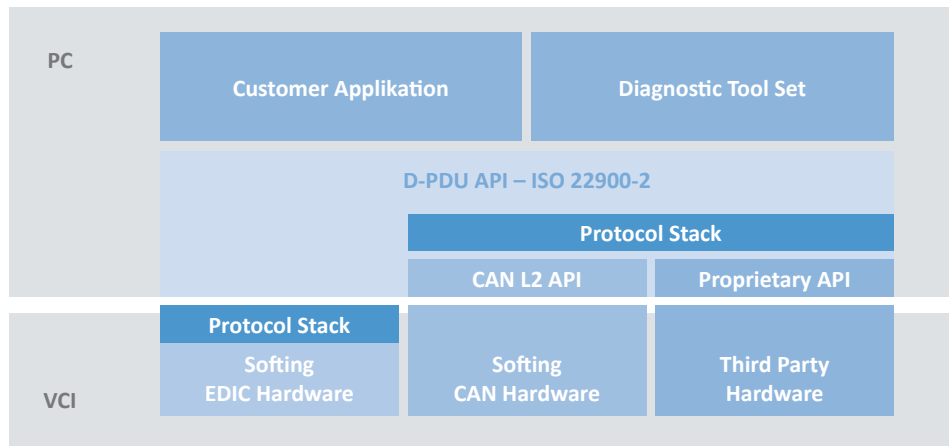


# D-PDU API

## Standardized Vehicle Access via D-PDU API

Our D-PDU API software enables the easy integration of SOFTING diagnostic and communication interfaces into diagnostic tools. In all EDIC interfaces the communication protocol stack is implemented as embedded software.



### Areas of Application

- Applications for diagnostics and flash programming
- Test, manufacturing and service tester applications
- Applications for vehicle communication via bus systems such as CAN
- Direct access to hardware interfaces by the application or via a diagnostic server in accordance with ISO 22900-3

### Benefits

- Powerful mechanisms for exchanging data with ECUs
- Communication protocol handling within the D-PDU API software
- Simple transferability or extension of applications already created thanks to standardized communication parameters
- Parallel communication with several ECUs, also via a range of bus systems
- D-PDU API interface support with Diagnostic Tool Set

### D-PDU API for EDIC and CAN Vehicle Interfaces

The D-PDU API software is available for both EDIC interfaces and CAN interfaces from SOFTING. It can also be used for retrofitting EDIC- or CAN interfaces already existing at the customer site. If required, third-party vehicle interfaces with a proprietary programming interface can also be equipped with the SOFTING D-PDU API software.

### D-PDU API with DoIP (Diagnostics over IP) interface

The growing volume of driver assistance and infotainment systems in modern vehicles is making greater demands in terms of download time for flash programming. The SOFTING D-PDU API supports DoIP according to ISO 13400 and is thus perfectly prepared for current performance requirements.

### Easy D-PDU API programming access with „EasyPDU“

EasyPDU reduces the complexity of the D-PDU API programming interface and allows a simpler, object-oriented access to the functionalities of the D-PDU API. EasyPDU is designed for use with C++, Python and .NET.

### D-PDU API Solution Expertise

SOFTING provides you with optimum support in your projects based on comprehensive expertise gained through long years of active participation in standardization committees, a range of customer projects and the extensive portfolio of hardware and software products. SOFTING can implement its existing expertise to great effect particularly with new projects in connection with D-PDU API, D-Server and ODX – especially with problems concerning the migration of old systems.



## Technical Data

<b>Operating systems</b>	Windows 7 SP 1 (32 and 64 Bit) Windows 8.1 (32 and 64 Bit) Windows 10 (32 und 64 Bit) Android (currently supported: UDS / ISO 14229: ISO 15765-3 / 14229-3 on 15765-2) iOS and Linux (on request)
<b>Standard conformity</b>	ISO 22900-2
<b>CAN protocols</b>	UDS / ISO 14229: ISO 15765-3 / ISO 14229-3 on 15765-2 OBD / ISO 15031: ISO 15031-5 on 15765-4 KWP2000 / ISO 15765: ISO 14230-3 on 15765-2 KW1281 on VW TP1.6 KWP2000 light plus on VW TP1.6 KWP2000 light plus on VW TP2.0 ISO 11898 RAW SOFTNG ISO 11898 onboard
<b>K-line protocols</b>	KWP2000 / ISO 14230: ISO 14230-3 on 14230-2 OBD / ISO15031: ISO 15031-5 on 14230-4 KW1281 on ISO 9141-2 KWP2000 light plus VW on ISO 14230-2
<b>Diagnostics over IP</b>	ISO 14229-5 on ISO 13400-2
<b>Delivery scope</b>	D-PDU API software with license and documentation on a data carrier or as an Internet download EasyPDU: Interface for simplified access using .NET, C++ and Python (part of CD and download distribution)

## Order Numbers

<b>PDUAPI-EC</b>	D-PDU API software license (ISO 22900-2), for use <b>without</b> DTS or OTX products for CAN and PassThru interfaces (SAE J2534) as well as for DoIP (ISO 13400) without VCI.
<b>PDUAPI-LIC</b>	D-PDU API software license (ISO 22900-2), for use together <b>with</b> DTS or OTX products for CAN and PassThru interfaces (SAE J2534) as well as for DoIP (ISO 13400) without VCI.

## Supplementary Products and Services

<b>S-DONGLE</b>	Micro USB license dongle, as an alternative to licensing on a hardware interface
<b>DTS8L+MONACO</b>	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

## Supported Hardware Interfaces

<b>SOFTING EDIC Interfaces<sup>1</sup></b>	EDICusb, EDICblue, EDICpci, EDICwlan, EDICcard2
<b>SOFTING VIN ING Interfaces</b>	VIN ING 600 (WLAN Ethernet bridge for DoIP)
<b>SOFTING CAN Interfaces<sup>1,2,3</sup></b>	CANpro USB, CANusb, CAN-PRO2-PCIE, CAN-AC2, CANcard2
<b>KVASER CAN Interfaces<sup>3</sup></b>	Leaf Professional HS, Leaf Light HS, Leaf Light HS v2, Memorator Pro HS/HS, USBcan II HS/LS, PCICanx HS/HS, PCIEcan HS/HS
<b>VECTOR CAN Interfaces<sup>1,3</sup></b>	VN16xx
<b>VECTOR CAN Interfaces<sup>3</sup></b>	CANcard XL, CANcase XL, CANboard XL, VN7600
<b>PassThru Interfaces<sup>3</sup></b>	D-PDU API software can access to VCIs, which are supporting a generic PassThru interface. The following PassThru Interfaces are released: DrewTech CarDAQ+ v1.9.13 I+ME Actia PassThru XS+ v2.07 DearBorn VSI-2423 v2.04.16 BlueStreak iFlash v4.20/2.13

<sup>1</sup> hardware interface can be used for licensing of PDUAPI-LIC respectively DTS/OTX products alternatively to S-DONGLE

<sup>2</sup> hardware interface can be used for licensing of PDUAPI-EC alternatively to S-DONGLE

<sup>3</sup> driver from manufacturer required