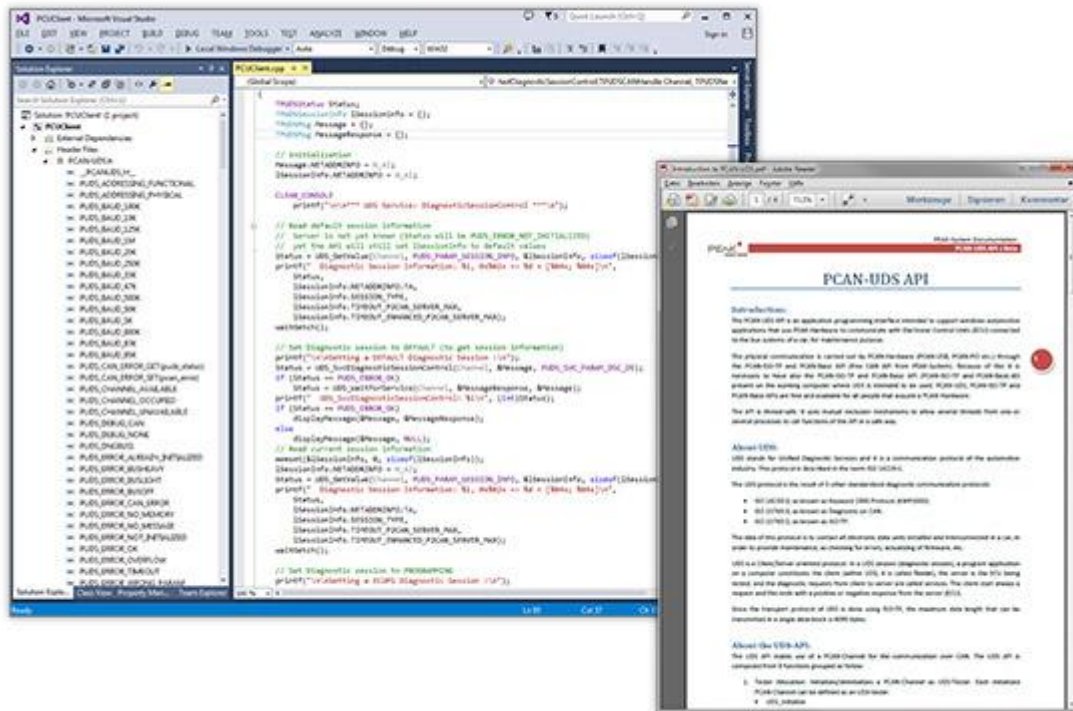# PCAN-UDS API

UDS (ISO 14229-1) stands for Unified Diagnostic Services and defines the communication with control units (ECUs). The Windows software tests the controller using various services. The process is done on the clientserver principle where the program is in the position of the client (also called tester). UDS uses the ISO-TP standard as transport protocol, thus UDS can transmit data blocks of up to 4095 bytes size. Besides the exchange of maintenance information, for example, the transfer of firmware is possible.

The PCAN-UDS API implements the functionality of the standard on the basis of 8 functions. They are categorized in Tester Allocation, Configuration, Information, Utilities, Services, and Communication.