

D2000 KomAPI

Definitions

The document describes the **D2000 KomAPI** programming interface available for Windows, Linux, and Raspberry PI.

The version of the protocol interface is **1.27**.

Demonstration files (contained on the D2000 System installation DVD) have been created in the development environment Microsoft Visual C/C++ v5.0 and v6.0. In the environment during the creation of the project, the parameter „Struct member alignment = 8 bytes“ was set, except for the structures, which use explicitly stated „pragma Pack“.

On Linux, GCC 6.2.1 was used to compile a template shared library (on Centos Linux 7.2).

Introduction

The **D2000 KomAPI** programming interface allows the creation of a communication protocol (thereinafter protocol DLL) using sets of functions contained in the dynamic library (DLL). The **D2000 KOM** communication process calls the functions and also it supports the user by providing [call-back functions](#), which use features of D2000 system communication objects ([line](#), [station](#), [I/O tag](#)).

For users, the files *definitions.h*, *OEM_Prot1.c*, *modbus.c*, and *modbus.h* are available (they are located in the D2000 system installation in the *utils\KomAPI* directory, e.g. *d:\D2000\D2000_EXE\utils\KomAPI*), which can be used as examples for programming own protocols. The given example implements the MODBUS protocol according to the Modicon specification (see the documentation at <http://www.modicon.com/techpubs>).

Configuration of communication lines and stations

- Protocol DLL interface can be used for communication lines of categories [Serial](#), [RFC2217 Client](#), [Ext KOM](#), [API](#), [TCP/IP-TCP](#), [TCP/IP-UDP](#), [MOXA IP Serial Library](#), and [SerialOverUDP Device Redundant](#).
- Available station protocols: **OEM_Prot1** up to **OEM_Prot16**.



Related pages:

- [D2000 system interfaces](#)
- [D2000 KomAPI - interface description](#)
- [D2000 KomAPI - structures](#)
- [D2000 KomAPI - functions](#)
- [D2000 KomAPI - call-back functions](#)
- [D2000 KomAPI - address configuration](#)