

# D2000 KomAPI

## Definitions

The document describes the user interface **D2000 KomAPI** available for Windows and Linux.

The version of the protocol interface is **1.26**.

Demonstration files (contained on D2000 System installation DVD) have been created in the development environment Microsoft Visual C/C++ v5.0 and v6.0. In the environment during creation of the project, there were set the parameter „Struct member alignment = 8 bytes“, except 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 user interface **D2000 KomAPI** allows creating a communication protocol (thereinafter protocol DLL) using sets of functions contained in the dynamic library (DLL). The communication process **D2000 KOM** 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, there are available the files *definitions.h*, *OEM\_Prot1.c*, *modbus.c* and *modbus.h* (located on D2000 system installation DVD\*), which can be used as examples for programming own protocols. The given example implements the protocol MODBUS according to the Modicon specification (see the documentation at <http://www.modicon.com/techpubs>).

\* **Note:** Installation DVD *D2000 Developer*

## Configuration of communication lines and stations

- Protocol DLL interface can be used for communication lines of categories [Serial](#), [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](#)