

Basic Parts of User Client Process

D2000 OBJApi - basic parts of user client process

[Initializing the communication](#)
[Handling NewObjectValue message](#)
[Handling NewDefinition message](#)
[Executive part](#)
[Stopping the communication](#)

Initializing the communication

Before calling a function from the interface [D2000 ObjApi](#), it is necessary at first to call the initialization function - [ConnectKernel](#), that provides connection with the process [D2000 Server](#). After calling the function [ConnectKernel](#), then there is calling the function [SendChildren](#) that provides acceptance of the definition of user process' children.

Handling NewObjectValuemessage

When the connection is established with the [D2000 Server](#), we use the parameter [ConnectKernel](#) to define a service procedure that will receive asynchronous messages about a change of the object value or status. Such messages are to be sent for each object, which is opened by calling the function [OpenObject](#) and for all children of given process.

Handling NewDefinition message

After connecting the [D2000 Server](#), it is possible to request for definition of user process children by calling the function [SendChildren](#). When calling this function, we define a service procedure that will receive *NewDefinition* configuration messages.

Executive part

In this part, we can call [functions](#) of the interface [D2000 ObjApi](#) which are used to:

- open and close an object. For the open object, there are sent the messages *NewObjectValue* about a change of its value or its status.
- get current object value,
- set up the object value,
- get data from the archive database,
- get data from the log database (not yet implemented),
- get the list of objects of given type, all objects, or objects matching the entered mask.

Stopping the communication

Before terminating the user process, it is necessary to stop correctly the communication with [D2000 Server](#) by calling the function [LogoffProc](#). Automatic restart of the user process is executed, if the following conditions are met:

- while the user process was terminating, there was connected [D2000 Server](#) and the connection was not terminated correctly by calling [LogoffProc](#),
- the process [D2000 Server](#) is running on the same computer as the user process,
- own executable file of the user process is placed in the subdirectory **Bin** of the [installation directory](#) containing all executable files of D2000 System,
- the process must not be configured as "service" using the parameter */X*, always must run as a standard process communicating with user.