

The Library SysLibSocketsAsync.lib

This library offers the same functionality as SysLibSockets.lib, however **function blocks** instead of functions are used and the processing is **asynchronous**.

Corresponding to the parameters of the functions in SysLibSockets.lib the respective function blocks of SysLibSocketsAsync.lib have specific input parameters with identic impact.

Corresponding to the return values of the functions in SysLibSockets.lib the respective function blocks of SysLibSocketsAsync.lib have specific output parameters with identic impact.

See the respective function description of the modules in document [SysLibSockets.pdf](#).

Additionally the following input and output parameters are available in all function blocks:

Input:	bEnable	BOOL	Rising edge: the function block starts the action.
Outputs:	bDone	BOOL	TRUE indicates that the function block has completed processing.
	bBusy	BOOL	TRUE indicates that the function block is still processing.
	bError	BOOL	TRUE indicates that an error has occurred.
	wErrorId	WORD	Error number

Each function block will start the respective action as soon as a rising edge is detected at bEnable. Then it must be called cyclically until bDone=TRUE. Thereafter the outputs bError and wErrorId as well as the specific output parameters of the particular function block are in effect.

The function blocks:

- SysSockAcceptAsync
 - SysSockBindAsync
 - SysSockCloseAllOpenAsync
 - SysSockConnectAsync
 - SysSockCreateAsync
 - SysSockGetHostByNameAsync
 - SysSockGetHostNameAsync
 - SysSockGetOptionAsync
 - SysSockHtonlAsync
 - SysSockHtonsAsync
 - SysSockInetAddrAsync
 - SysSockInetNtoaAsync
 - SysSockloctlAsync
 - SysSockListenAsync
 - SysSockNtohlAsync
 - SysSockNtohsAsync
 - SysSockSelectAsync
 - SysSockSetIPAddressAsync
 - SysSockSetOptionAsync
 - SysSockShutdownAsync
- TCP/IP-specific:
- SysSockRecvAsync
 - SysSockSendAsync
- UDP-specific:
- SysSockRecvFromAsync
 - SysSockSendToAsync