

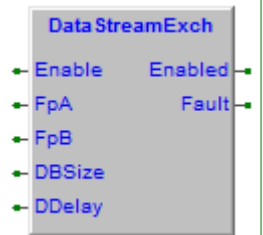
1.1.18 DataStreamExch, exchanges data between two I/O streams

Type	Library
Function	ePLCUtyLib_C000

This function block performs data exchange between two I/O streams. By defining a stream as a TCP socket and the other as serial port, it is possible to realize a Ethernet/Serial converter.

In **FpA** and **FpB** must indicate the file pointer in output from the **Sysfopen** function opening the I/O stream. The FB receives data from a stream and stores them in a buffers of **DBSize** size, when non data is received for a **DDelay** sends them to the other stream.

If are received more data than the defined size of the buffer, the data is immediately sent on the other stream and an error is generated.



Enable (BOOL)	Enables the FB.
FpA (FILEP)	Stream returned from Sysfopen function.
FpB (FILEP)	Stream returned from Sysfopen function.
DBSize (UDINT)	Data buffer size (Bytes).
DDelay (UDINT)	Receiving characters, pause time (mS).
Enabled (BOOL)	FB enabled.
Fault (BOOL)	Active for a loop on error.

Error codes

If an error occurs, the **Fault** output is activated and [SysGetLastError](#) can detect the error code.

- 10048100 Data buffer allocation error.
- 10048200 Data buffer full on data reception forom stream (A).
- 10048250 Data buffer full on data reception forom stream (B).

Examples

A simple Ethernet/Serial converter, accepts TCP connection on port 1000 and uses the COM0 serial port.

Defining variables

	Name	Type	Address	Array	Init value	Attribute	Description
1	SMode	SetSMode	Auto	No		..	Set serial mode
2	SktLsn	SysSktListen	Auto	No		..	FB Socket listen
3	SktDone	BOOL	Auto	No		..	Socket done
4	SktConnect	BOOL	Auto	No		..	Socket connect
5	Fp	FILEP	Auto	[0..1]		..	File pointer
6	Dx	DataStreamExch	Auto	No		..	FB data stream exchange

LD example (PTP114A630, LD_DataStreamExch)

