

OB1 - <offline>

"Main\_Program"

Name:

Author:

Family:

Version: 0.1

Block version: 2

Time stamp Code:

Interface:

06/26/2011 08:29:09 PM

02/15/1996 04:51:12 PM

Lengths (block/logic/data): 00612 00476 00038

Name	Data Type	Address	Comment
TEMP		0.0	
OB1_EV_CLASS	Byte	0.0	Bits 0-3 = 1 (Coming event), Bits 4-7 = 1 (Event class 1)
OB1_SCAN_1	Byte	1.0	1 (Cold restart scan 1 of OB 1), 3 (Scan 2-n of OB 1)
OB1_PRIORITY	Byte	2.0	Priority of OB Execution
OB1_OB_NUMBR	Byte	3.0	1 (Organization block 1, OB1)
OB1_RESERVED_1	Byte	4.0	Reserved for system
OB1_RESERVED_2	Byte	5.0	Reserved for system
OB1_PREV_CYCLE	Int	6.0	Cycle time of previous OB1 scan (milliseconds)
OB1_MIN_CYCLE	Int	8.0	Minimum cycle time of OB1 (milliseconds)
OB1_MAX_CYCLE	Int	10.0	Maximum cycle time of OB1 (milliseconds)
OB1_DATE_TIME	Date_And_Time	12.0	Date and time OB1 started

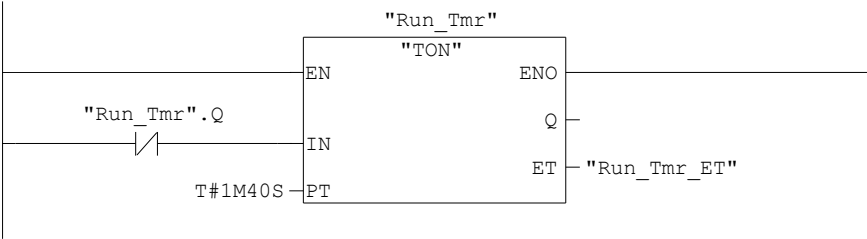
Block: OB1    "Main Program Sweep (Cycle)"

Example 17.1 PLC2 program

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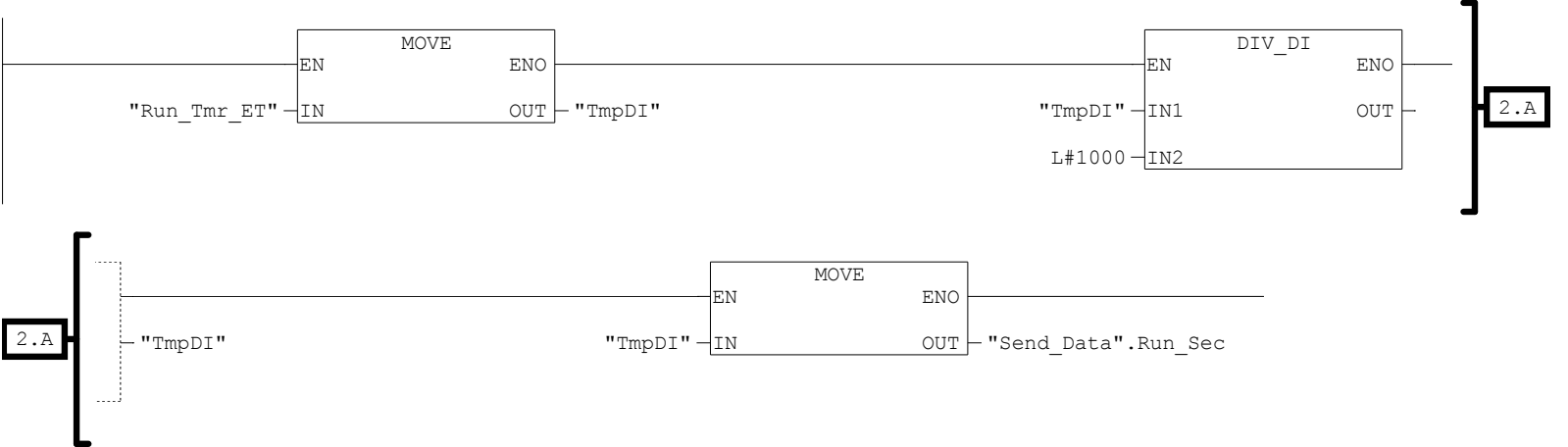
Network: 1

Free runing timer that resets every 100 seconds.



Network: 2

Convert Run\_Tmr ET into seconds



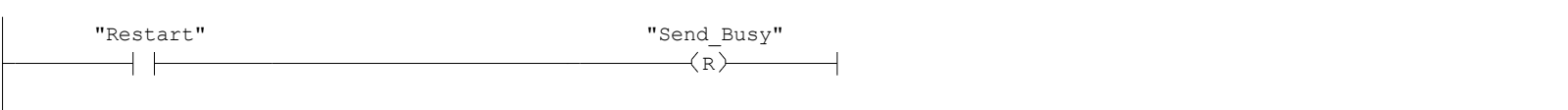
Network: 3

Timer for Messages



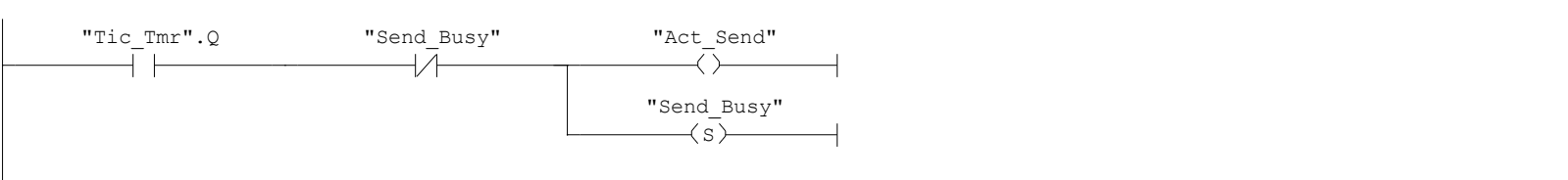
Network: 4

Clear SEND BUSY-Bit to start initial communication.



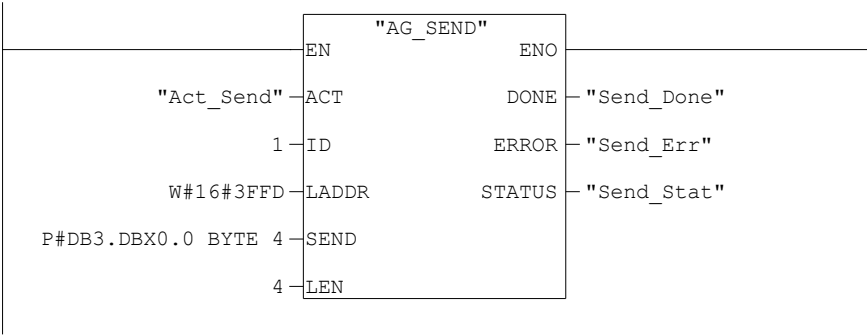
Network: 5

Start AG\_SEND function with the communication tic timer if the AG\_SEND function is not BUSY.  
The ACT input parameter of the AG\_SEND function is triggered with a pulse and BUSY is set as long as the AG\_SEND function is not completed!



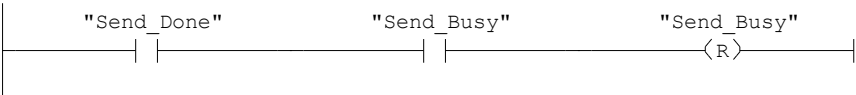
Network: 6

Invoke AG\_SEND function



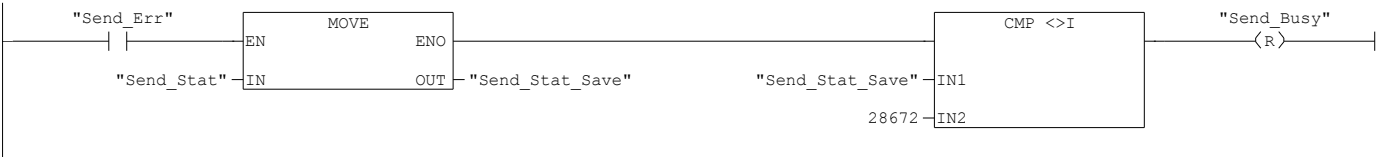
Network: 7

If AG\_SEND has completed reset BUSY!



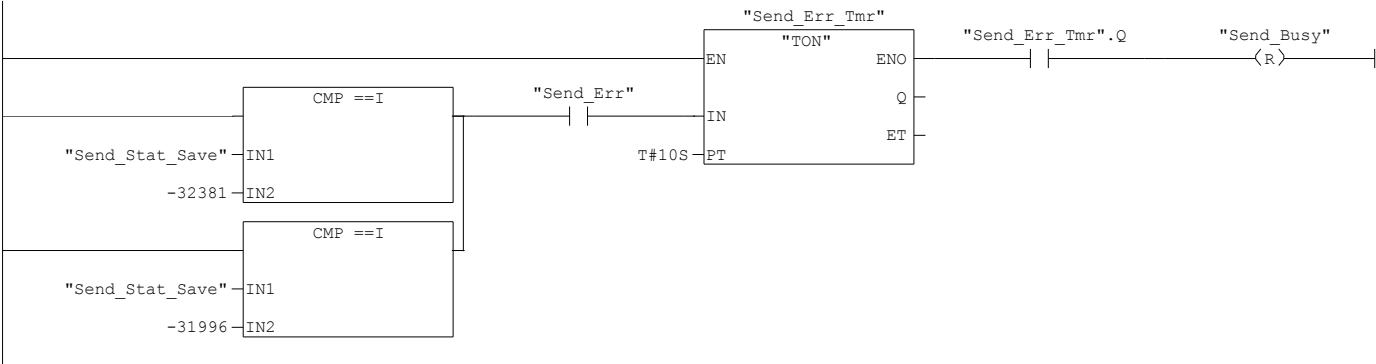
Network: 8

If function completes with ERROR then save STATUS and reset BUSY!  
In case of STAUS=0x7000 (=28672 decimal) function has not been completed yet!  
---> latter only required for FC50/FC60 S7-400!!!!



Network: 9

If the connection is broken, wait 10s before invoking AG\_SEND!  
STATUS = 0x8183 = -32381 decimal -> Connection has not been set up, or  
connection has been disconnected.  
= 0x8304 = -31996 decimal -> Connection is not established (old value).



Network: 10

Restart - on for first scan only

