

Totally Integrated Automation Portal

Main_MB_SERVER [OB1]

Main_MB_SERVER Properties

General

Name	Main_MB_SERVER	Number	1	Type	OB	Language	LAD
Numbering	Automatic						

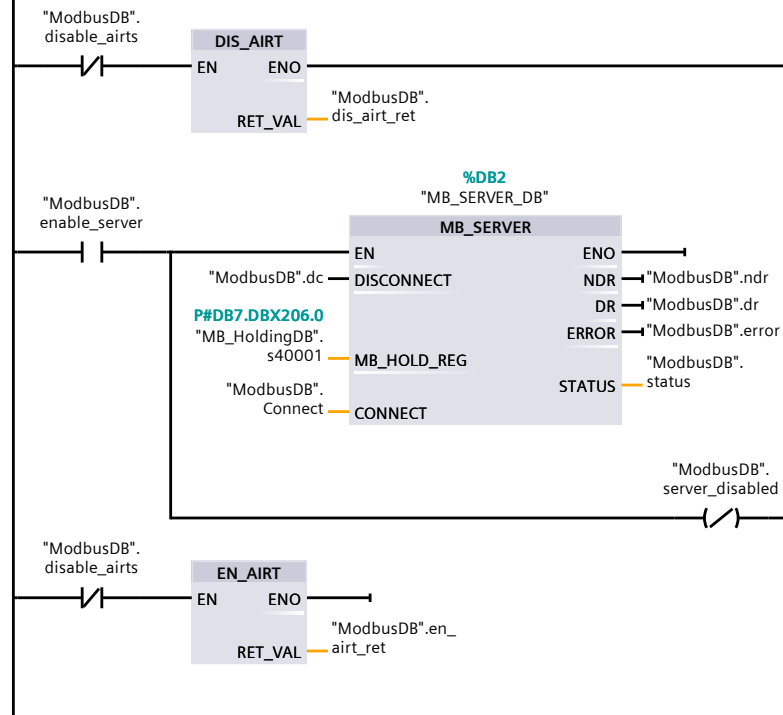
Information

Title	"Main Program Sweep (Cycle)"	Author		Comment	Modbus server example	Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Supervision	Comment
▼ Input				
Initial_Call	Bool			Initial call of this OB
Remanence	Bool			=True, if remanent data are available
Temp				
Constant				

Network 1: Modbus server

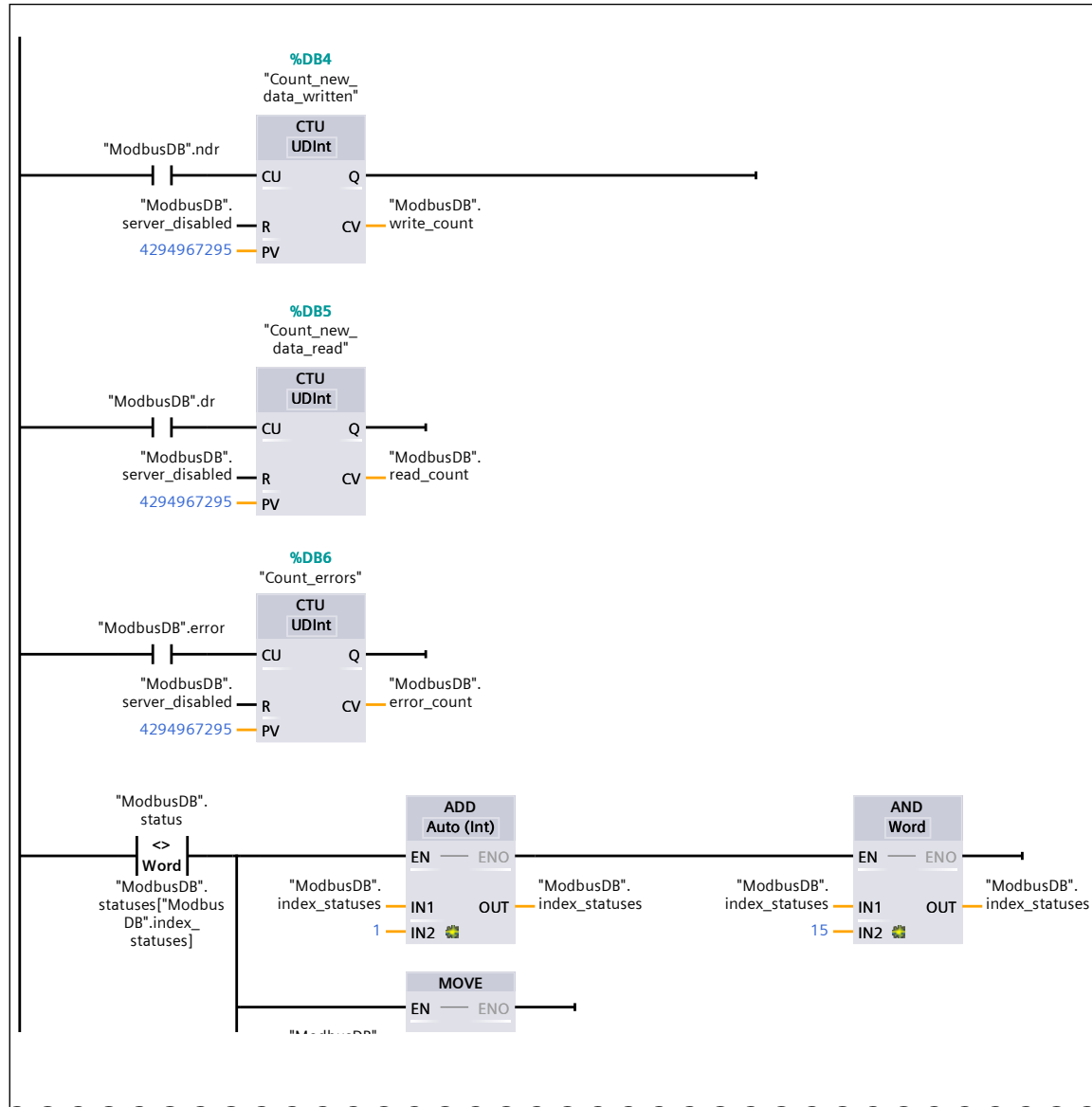
Controlled with ModbusDB.enabled_server; holding registers are in string Modbus_HoldingDB.s40001; see block Cyclic_holding_register_swap
N.B. first word seems to be the length
N.B. Rung is wrapped by DIS_AIRT/EN_AIRT pair, which in turn are disabled when BOOL ModbusDB.disable_airts is 1



Symbol	Address	Type	Comment
"MB_HoldingDB".s40001	P#DB7.DBX206.0	String	Modbus server's Holding registers; includes initial register with length before first character
"ModbusDB".Connect		Block_SDT	
"ModbusDB".dc		Bool	
"ModbusDB".dis_airt_ret		Word	
"ModbusDB".disable_airts		Bool	
"ModbusDB".dr		Bool	
"ModbusDB".en_airt_ret		Word	
"ModbusDB".enable_server		Bool	
"ModbusDB".error		Bool	
"ModbusDB".ndr		Bool	
"ModbusDB".server_disabled		Bool	
"ModbusDB".status		Word	

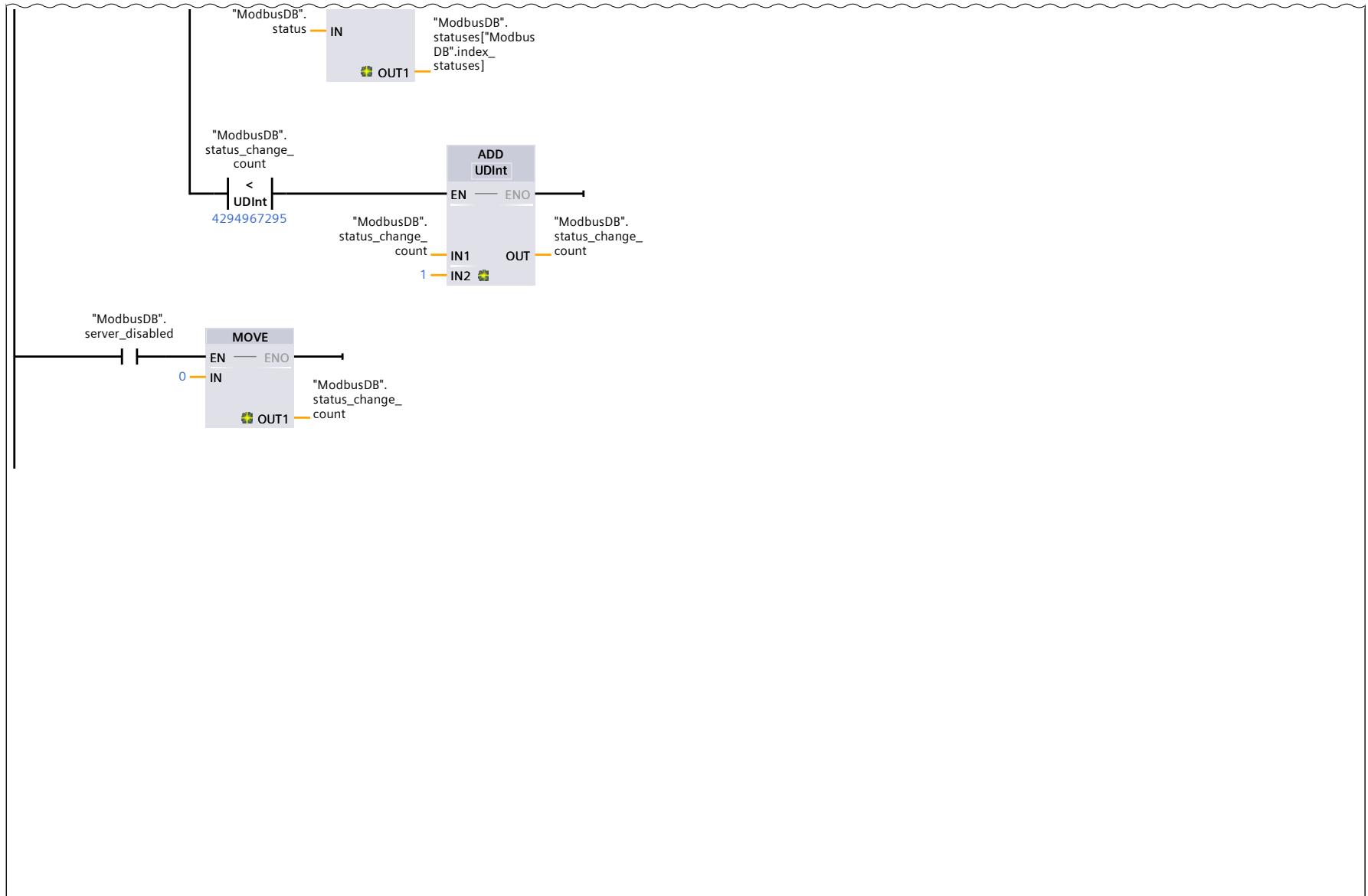
Totally Integrated Automation Portal		
Network 2: Count Modbus server reads, writes and errors Disabling the server resets the counters		

Network 2: Count Modbus server reads, writes and errors (1.1 / 2.1)



Network 2: Count Modbus server reads, writes and errors (2.1 / 2.1)

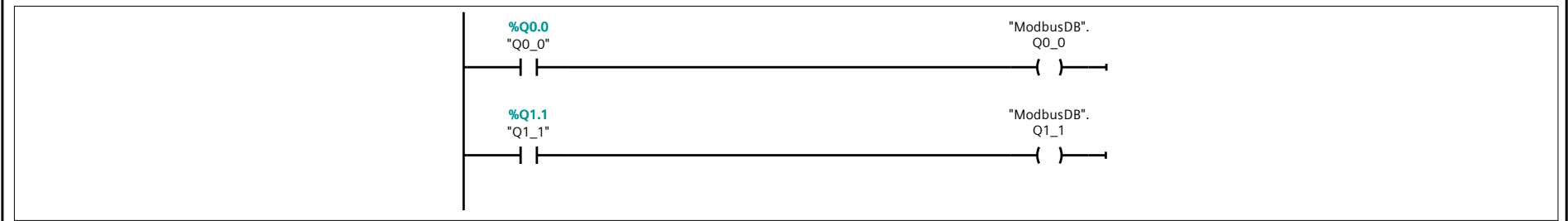
1.1 (Page1 - 4)



Symbol	Address	Type	Comment
"ModbusDB".dr		Bool	
"ModbusDB".error		Bool	
"ModbusDB".error_count		UDInt	
"ModbusDB".index_statuses		Int	
"ModbusDB".ndr		Bool	
"ModbusDB".read_count		UDInt	
"ModbusDB".server_disabled		Bool	
"ModbusDB".status		Word	
"ModbusDB".status_change_count		UDInt	
"ModbusDB".statuses["ModbusDB".index_statuses]		Word	
"ModbusDB".write_count		UDInt	

Network 3:

S7-1214C first and tenth discrete outputs, which may be controlled via Modbus client Write Multiple Coils command (15)



Symbol	Address	Type	Comment
"ModbusDB".Q0_0		Bool	
"ModbusDB".Q1_1		Bool	
"Q0_0"	%Q0.0	Bool	
"Q1_1"	%Q1.1	Bool	