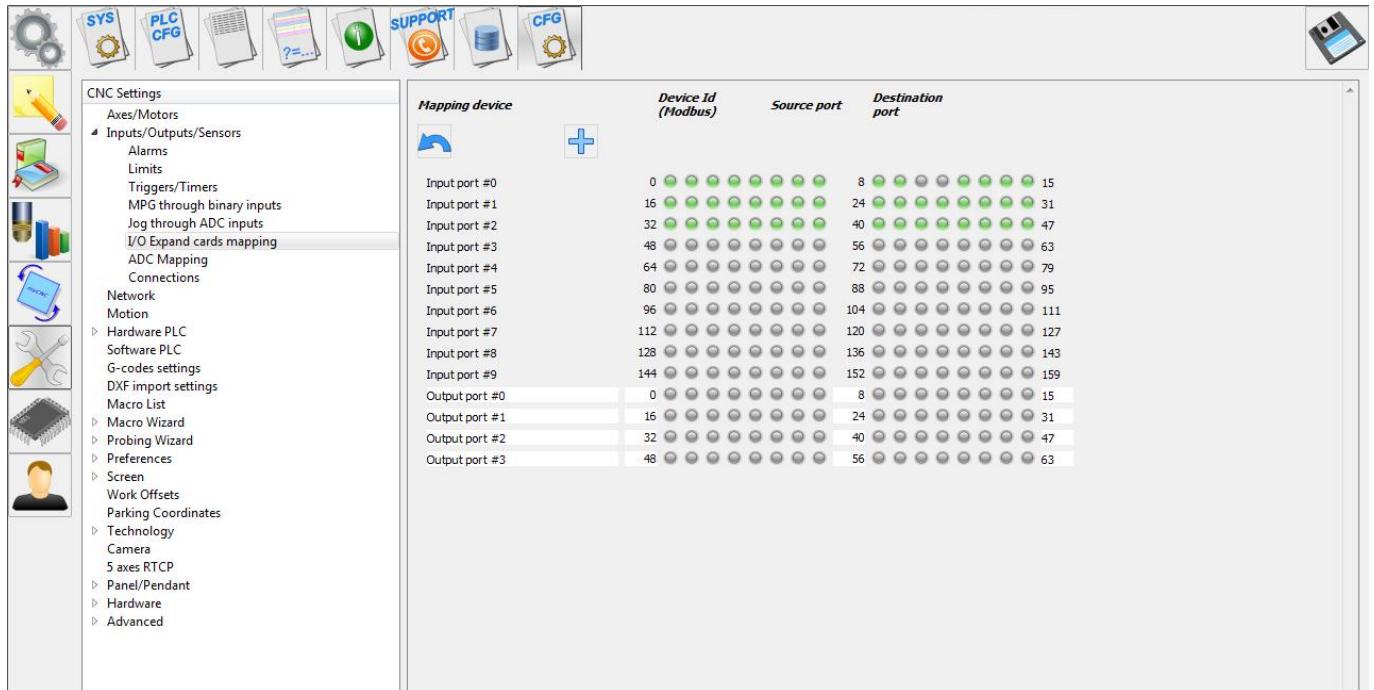


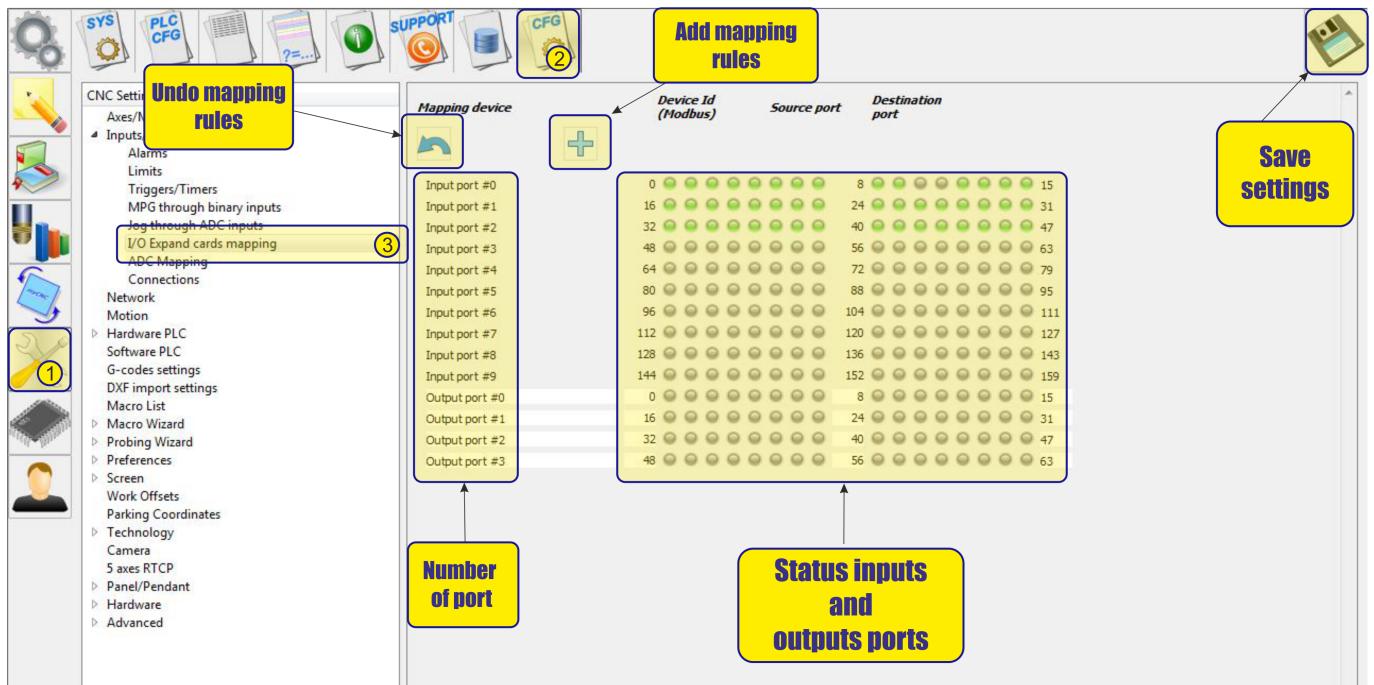
# I/O expand cards mapping

This menu allows you to reassignment the input and output port on the controller, as well as connect the ports of the remote device connected to the modbus as input or output ports of the controller.

Main window:



Basic functions:



- To create a rule, click the icon “add rules”

Mapping device	Device Id (Modbus)	Source port	Destination port
Not used	0	0	0
			
Input port #0	0	8	15
Input port #1	16	24	31
Input port #2	32	40	47
Input port #3	48	56	63
Input port #4	64	72	79
Input port #5	80	88	95
Input port #6	96	104	111
Input port #7	112	120	127
Input port #8	128	136	143
Input port #9	144	152	159
Output port #0	0	8	15
Output port #1	16	24	31
Output port #2	32	40	47
Output port #3	48	56	63

- Next, select the redirection conditions and the register for the mapping

Mapping device	Device Id (Modbus)	Source port	Destination port
Not used	0	0	0
Not used			
ET10 encoders inputs	0	8	15
Modbus/Reg Inputs expansion	16	24	31
Modbus/Reg Outputs expansion	32	40	47
Modbus/Coil Input expansion	48	56	63
Modbus/Coil Output expansion	64	72	79
ETxx inputs	80	88	95
ETxx outputs	96	104	111
Input port #3	112	120	127
Input port #4	128	136	143
Input port #5	144	152	159
Output port #0	0	8	15
Output port #1	16	24	31
Output port #2	32	40	47
Output port #3	48	56	63

- After selecting the register for the mapping, the input or output register of the controller, where the selected registers will be redirected. An example is presented reassignment of the register of encoder inputs of the controller ET10 as a register of the controller's common inputs port 3

Mapping device	Device Id (Modbus)	Source port	Destination port	
ET10 encoders inputs	0	0	3	
				
Input port #0	0	0	8	15
Input port #1	16	0	24	31
Input port #2	32	0	40	47
Input port #3	48	0	56	63
Input port #4	64	0	72	79
Input port #5	80	0	88	95

- This example shows how to connect an external controller to the modbus interface. At the remote controller with id = 1 input port number 2 (inputs from 32 to 47) is pushed to the input virtual port of controller number 3 (inputs from 48 to 63). The LED layouts below show the state of the port for each of the inputs.

Mapping device	Device Id (Modbus)	Source port	Destination port	
Modbus/Reg Inputs expansion	1	2	3	
				
Input port #0	0	0	8	15
Input port #1	16	0	24	31
Input port #2	32	0	40	47
Input port #3	48	0	56	63

- Similarly, mapping is also established on output registers. At the remote controller with id = 1 output port number 2 (outputs from 32 to 47) is pushed to the output virtual port of controller number 3 (outputs from 48 to 63). The LED layouts below show the state of the port for each of the outputs).

Mapping device	Device Id (Modbus)	Source port	Destination port	
Modbus/Reg Outputs expansion	1	2	3	
				
Input port #0	0	0	8	15
Input port #1	16	0	24	31
Input port #2	32	0	40	47
Input port #3	48	0	56	63
Input port #4	64	0	72	79
Input port #5	80	0	88	95
Input port #6	96	0	104	111
Input port #7	112	0	120	127
Input port #8	128	0	136	143
Input port #9	144	0	152	159
Output port #0	0	0	8	15
Output port #1	16	0	24	31
Output port #2	32	0	40	47
Output port #3	48	0	56	63

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