Interpretation of the communication data using the example of an S7 1200

Data Structure

Offset Byte	bit 7							bit 0
0	Door Position							
1	Door Status							
2	Door Operation mode							
3 4 5 6	Cycle Count							
	Status bits							
7	door closing	door opening	RESERVED	Safety edge triggered	Photo eye triggered	Service pending	Service warning	automatic possible
8	not used	not used	not used	not used	log event available	tst in para mode	door in closed pos	door in open pos
9 10 11 12	Maintenance Counter							
	TST Input status							
13	SLE_2	SLI_2	SLE_1	SLI_1	DET_4	DET_3	DET_2	DET_1
14	Foil_close	Foil_stop	Foil_open	E-Stop_Ex2	E-Stop_Ex1	E-Stop_INT	RADIO_2	RADIO_1
15	Input_8	Input_7	Input_6	Input_5	Input_4	Input_3	Input_2	Input_1
16	Input_31	Input_15	Input_14	Input_13	Input_12	Input_11	Input_10	Input_9
17	Input_28	Input_27	Input_26	Input_25	Input_24	Input_23	Input_22	Input_21
18	not used	not used	Input_3F	Input_3E	Input_3D	Input_3C	Input_3B	Input_3A
	TST Output status							
19	Output_8	Output_7	Output_6	Output_5	Output_4	Output_3	Output_2	Output_1
20	not used	Output_15	Output_14	Output_13	Output_12	Output_11	Output_10	Output_9
21	Output_24	Output_23	Output_22	Output_21	RESERVED	Output_2F	Output_2E	Output_2D
22	Output_2C	Output_2B	Output_2A	Output_29	Output_28	Output_27	Output_26	Output_25
23	Output_38	Output_37	Output_36	Output_35	Output_34	Output_33	Output_32	Output_31

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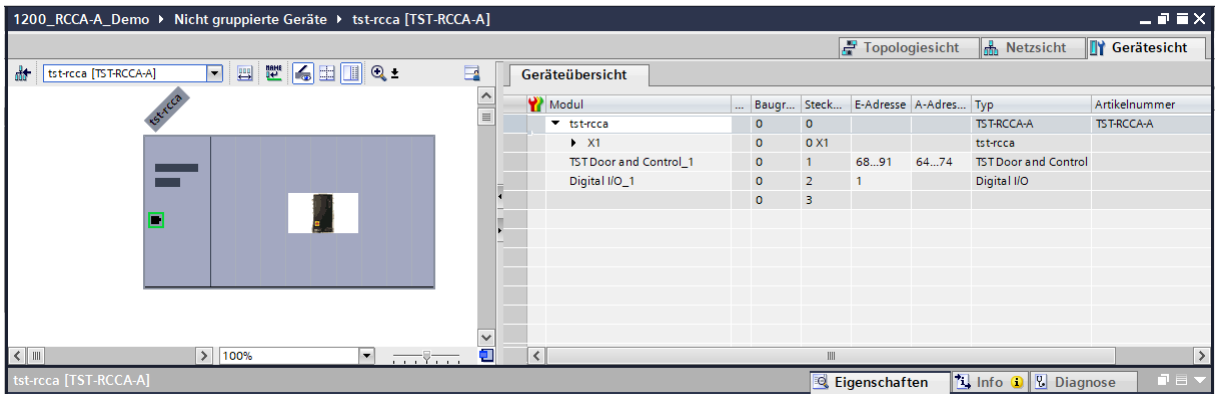
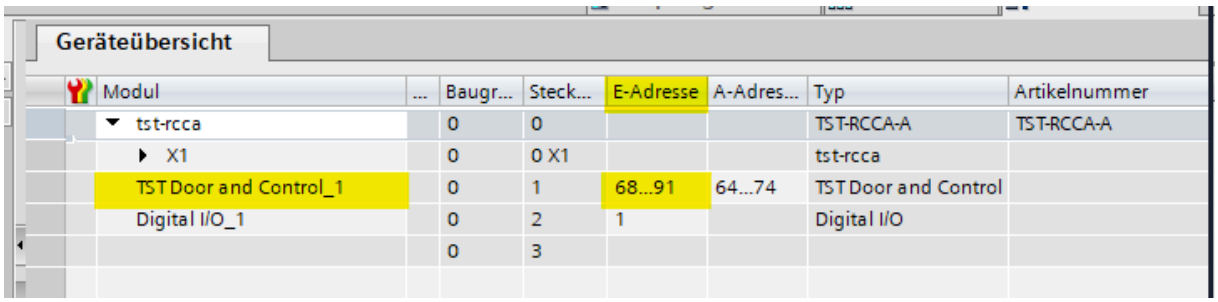
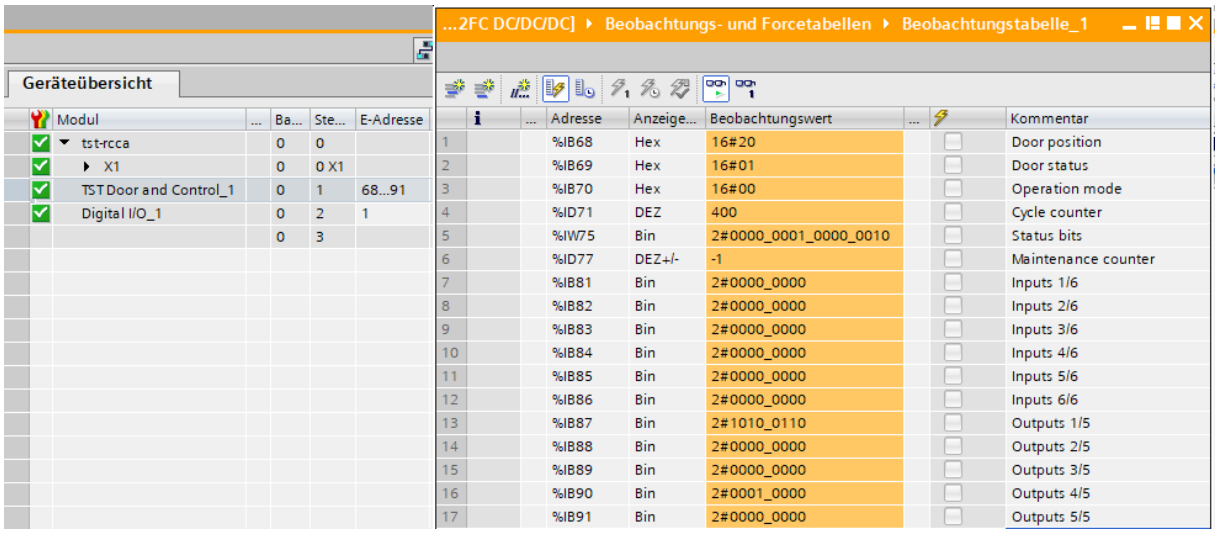
Hardware I/O section





Direct access in control programme



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