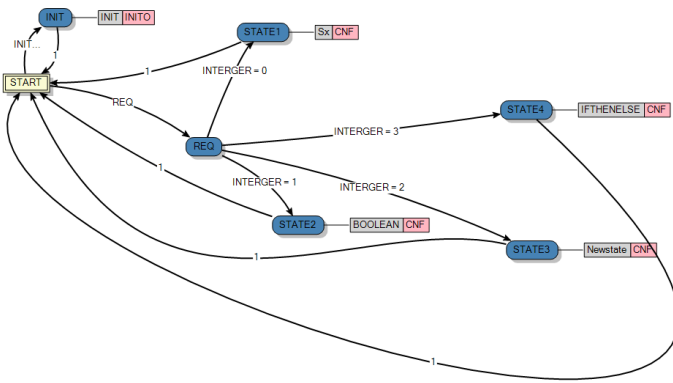


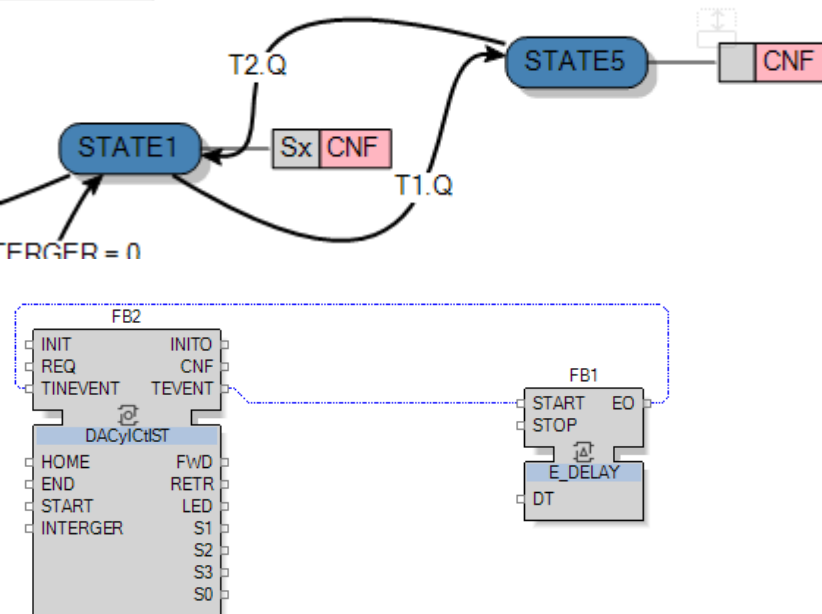
Here we have added S1x, S2x and S3x to fix the issue. We have also added a new integer input to allow switching between different algorithms. The cylinder now functions as wanted.



INIT	BOOLEAN	Sx	IFTHENELSE	Newstate
1	ALGORITHM	Newstate	IN ST:	
2		(*)	Add your comment (as per IEC 61131-3) here	
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				END_ALGORITHM

For the timer we can create a sister state:

Diagnostic



In the interface I created new EVENINPUT and EVENTOUTPUT because E_Delay needs these.

⚡	EventInputs				
⚡	INIT			HOME, END, S...	<none>
⚡	REQ			HOME, END, S...	<none>
⚡	TINEVENT				<none>
	<new interface>				
⚡	EventOutputs				
⚡	INITO			FWD, RETR, LE...	<none>
⚡	CNF			FWD, RETR, LE...	<none>
⚡	TEVENT			S1	<none>
	<new interface>				