A Appendix

A.1. Body Comfort System 150% State Machine Test Model

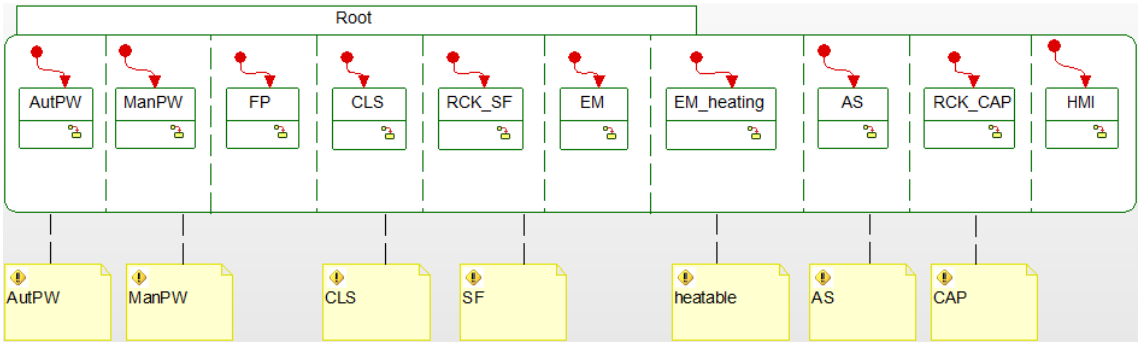

Figure A.1.: 150% State Machine BCS Root

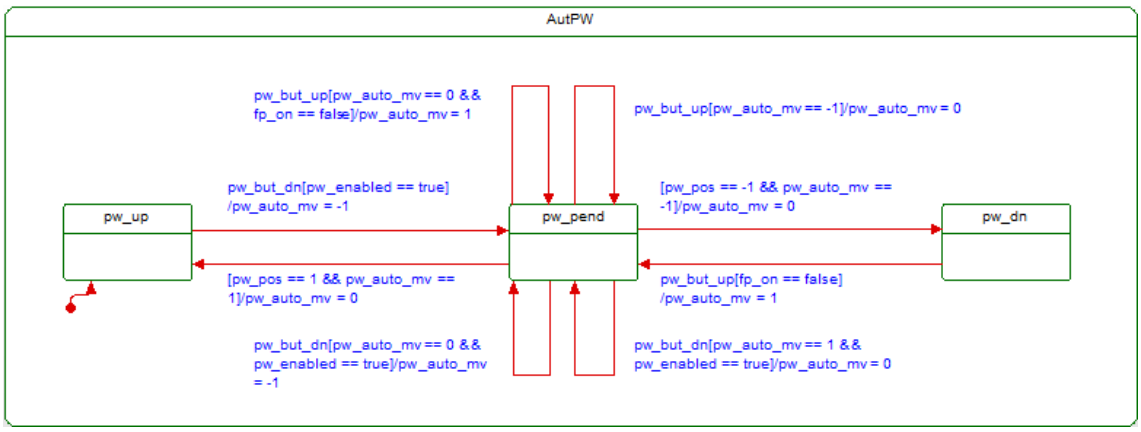

Figure A.2.: 150% Sub State Machine AutPW

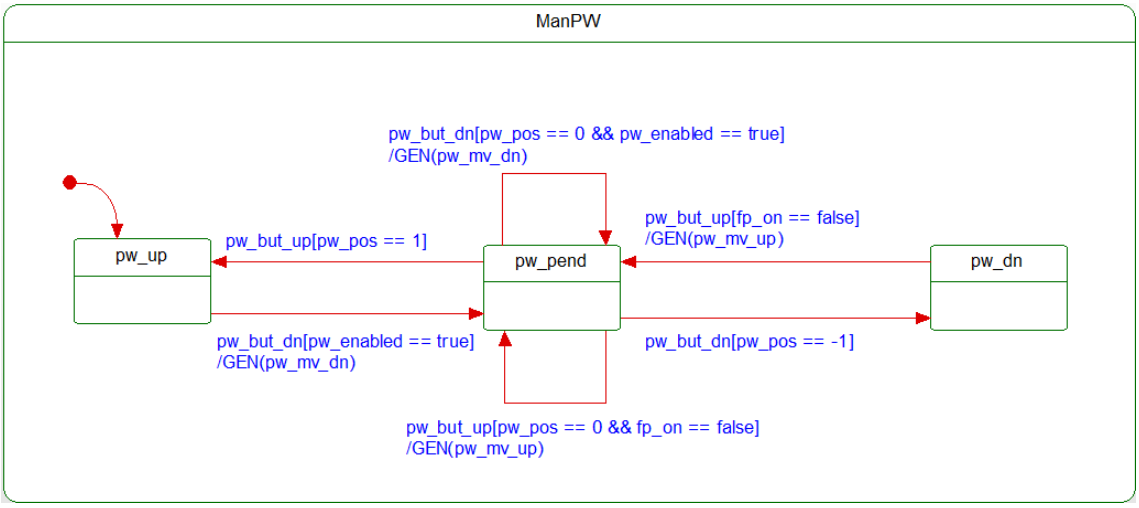

Figure A.3.: 150% Sub State Machine ManPW

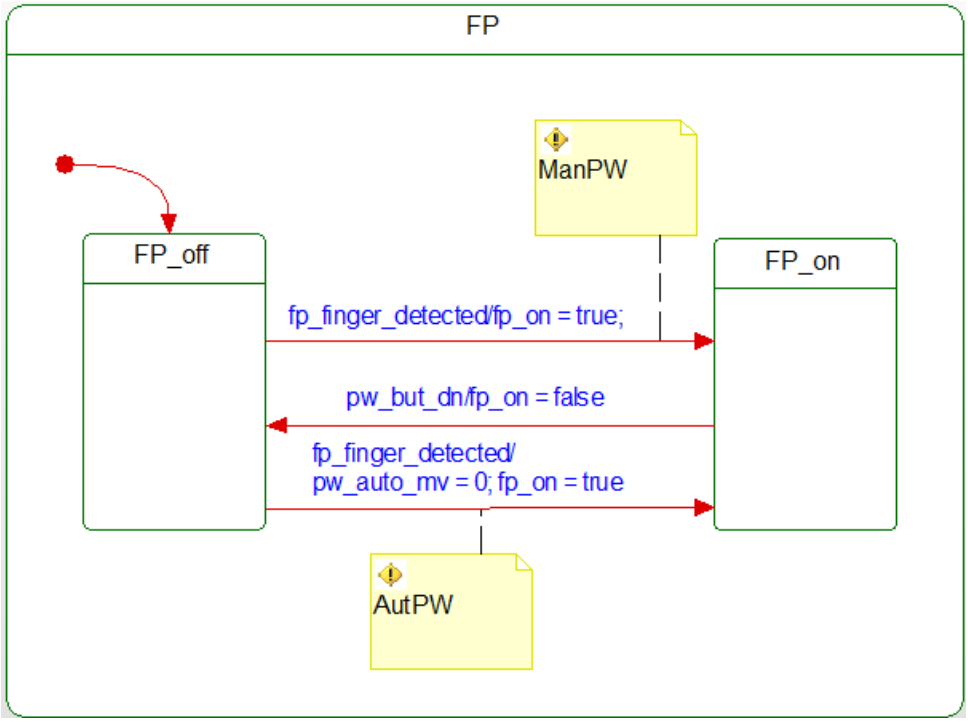

Figure A.4.: 150% Sub State Machine FP

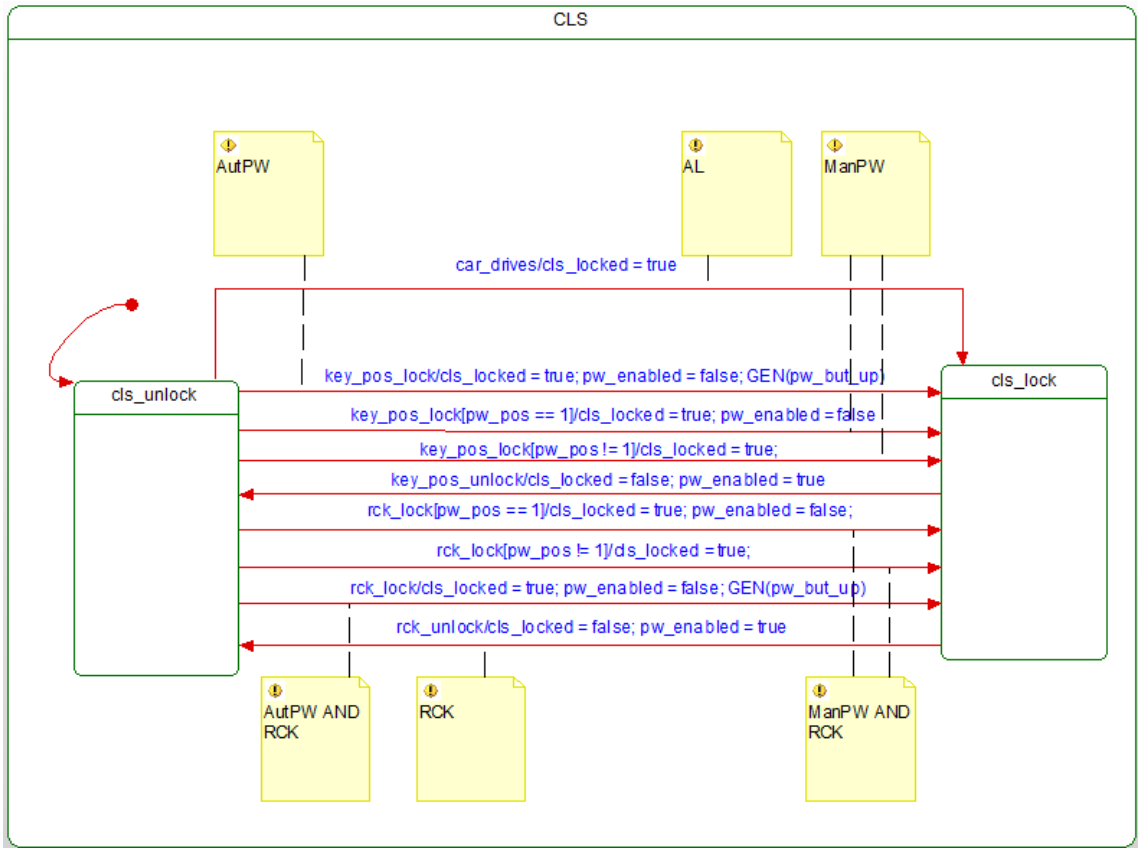

Figure A.5.: 150% Sub State Machine CLS

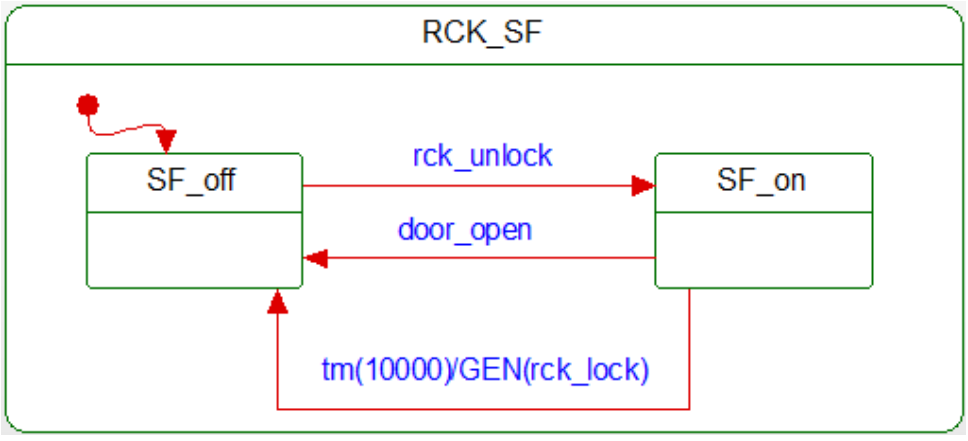

Figure A.6.: 150% Sub State Machine RCK_SF

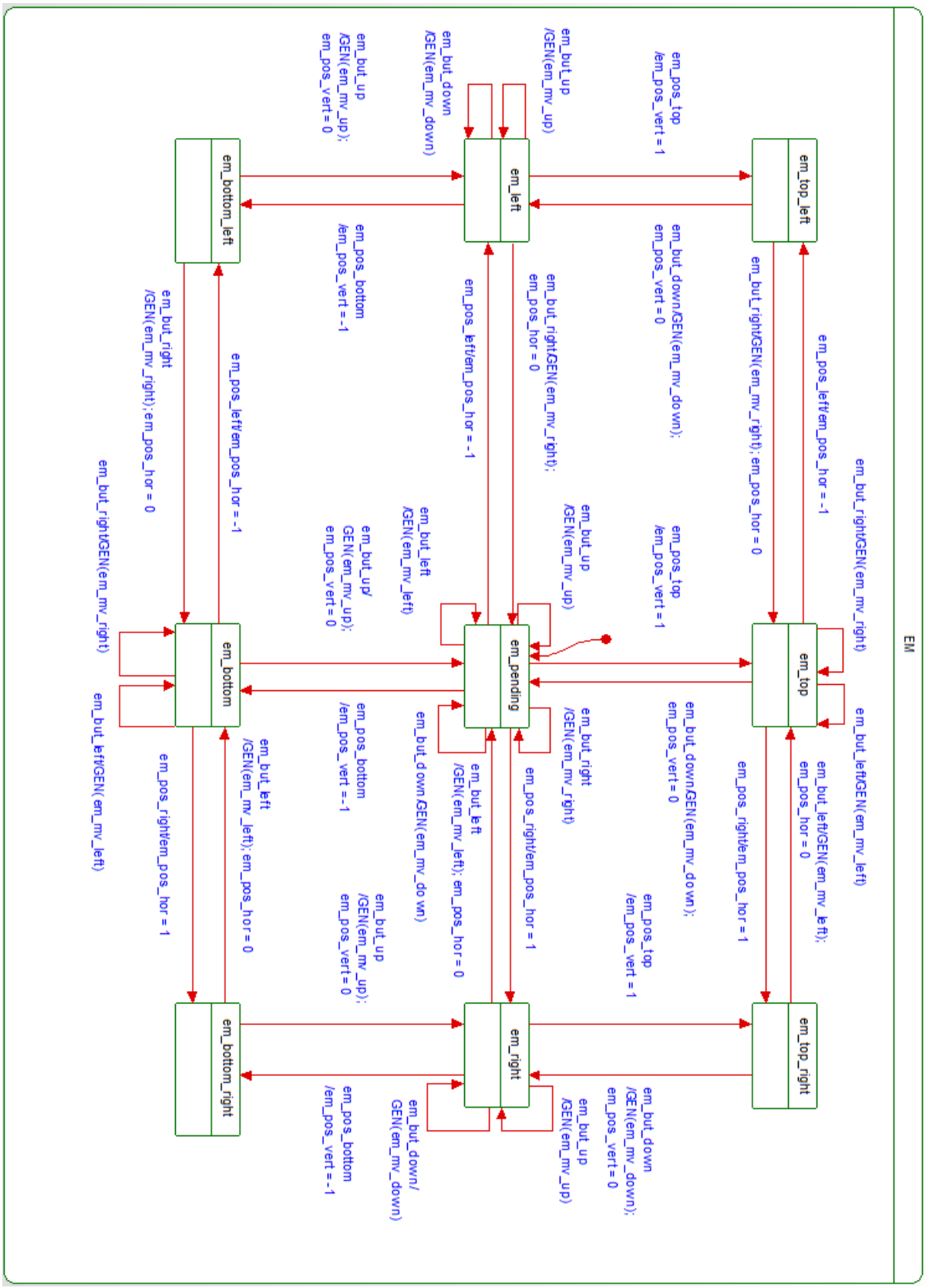

Figure A.7.: 150% Sub State Machine EM

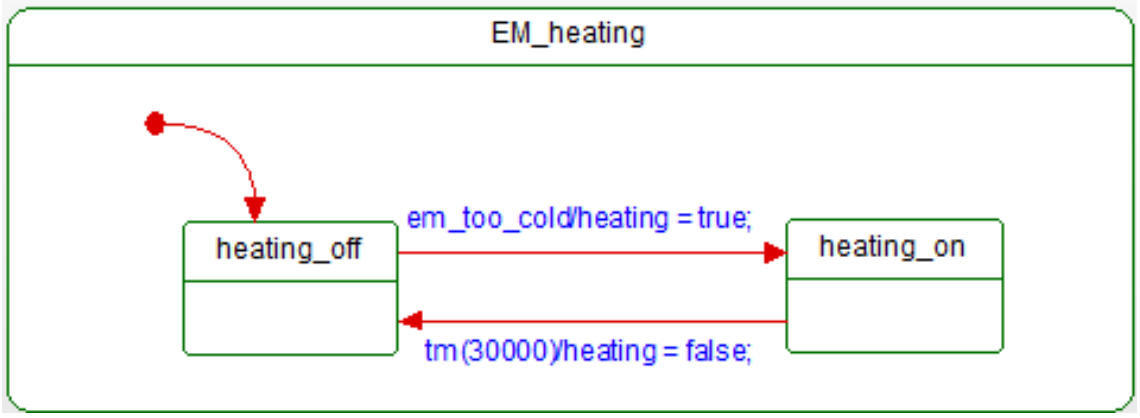

Figure A.8.: 150% Sub State Machine EM_heating

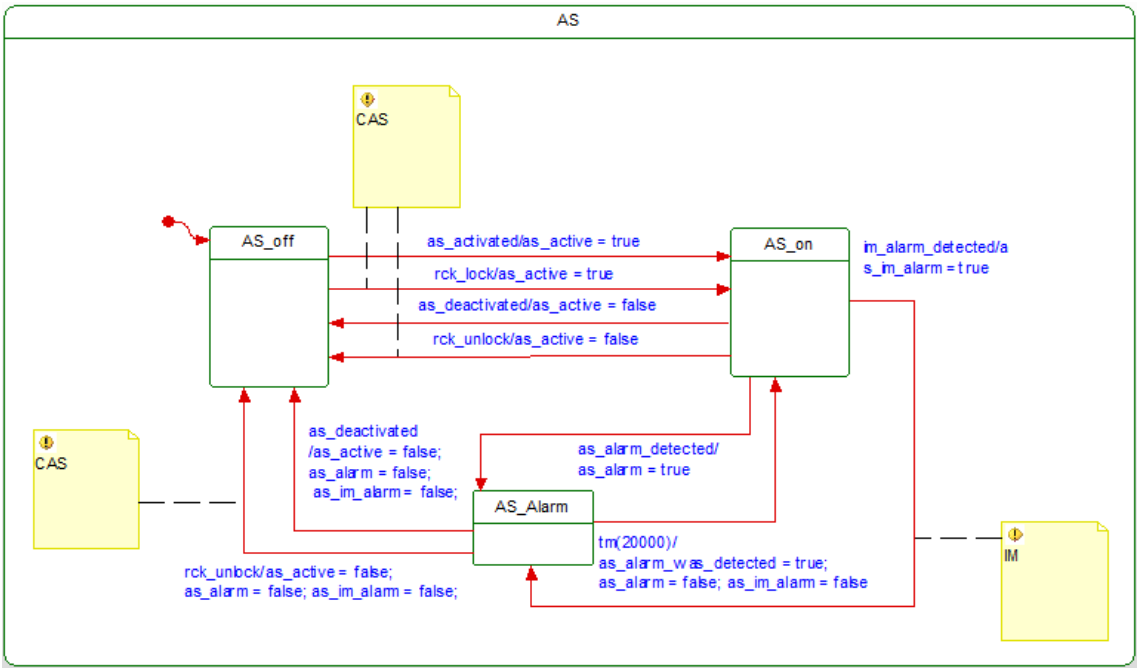

Figure A.9.: 150% Sub State Machine AS

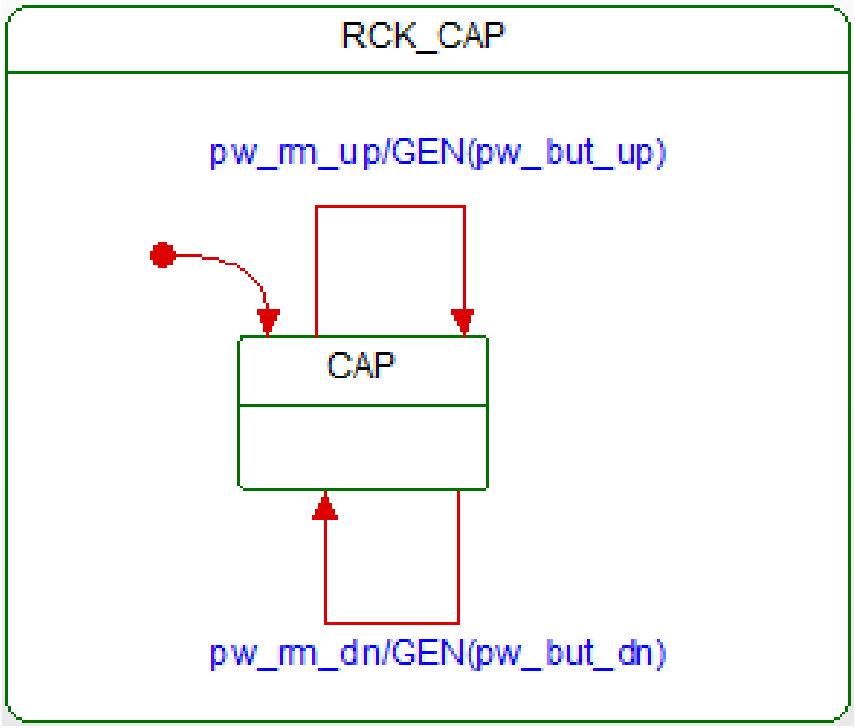

Figure A.10.: 150% Sub State Machine RCK_CAP

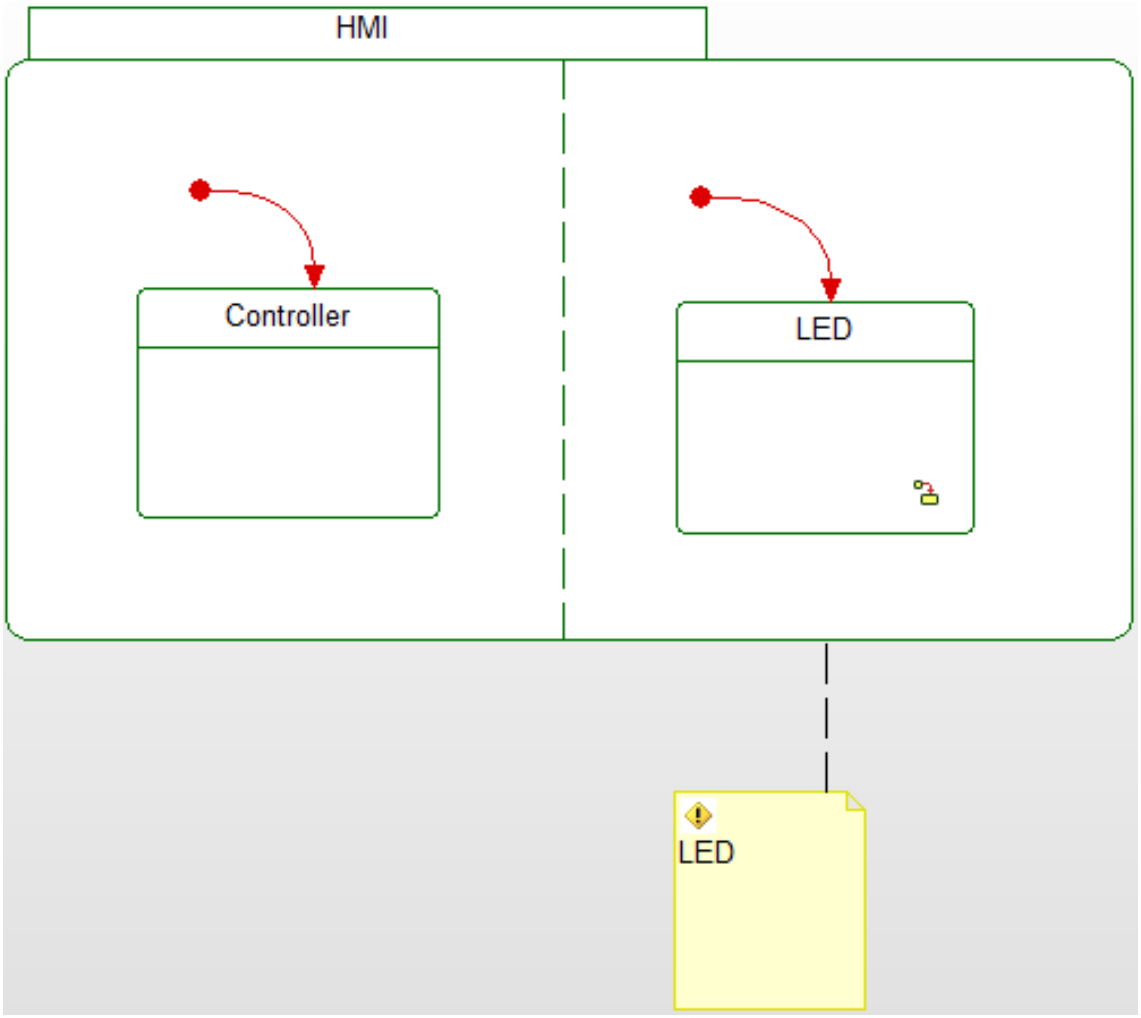

Figure A.11.: 150% Sub State Machine HMI

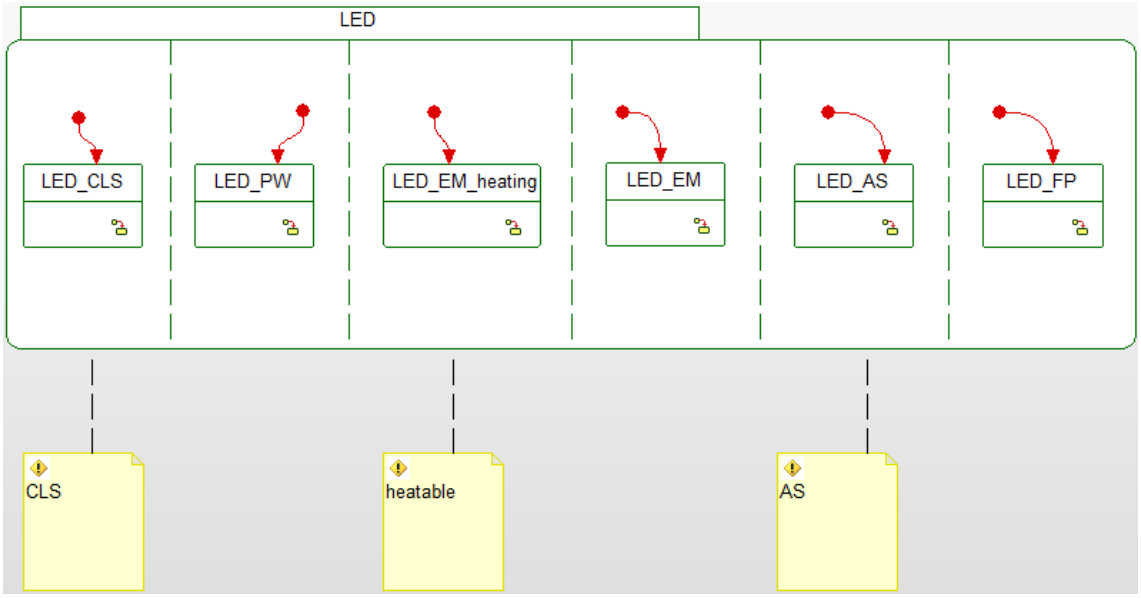

Figure A.12.: 150% Sub State Machine LED

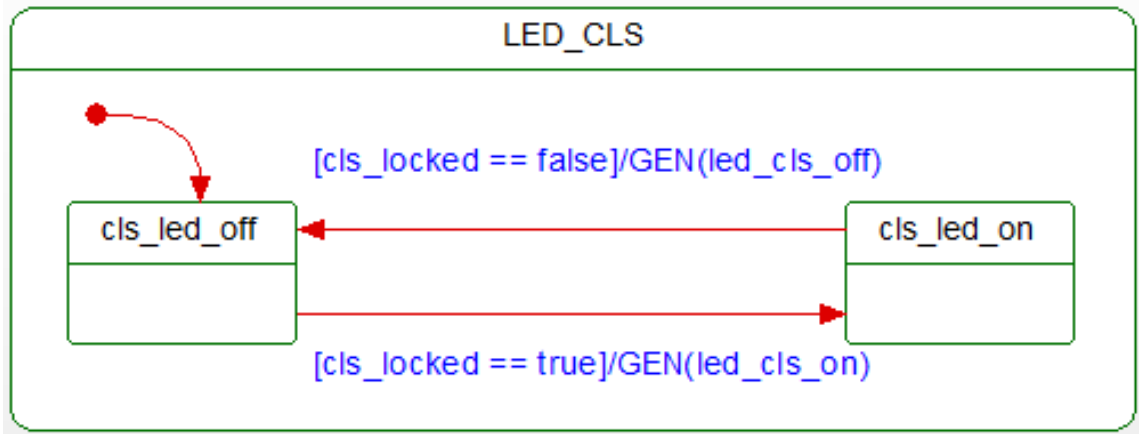

Figure A.13.: 150% Sub State Machine LED_CLS

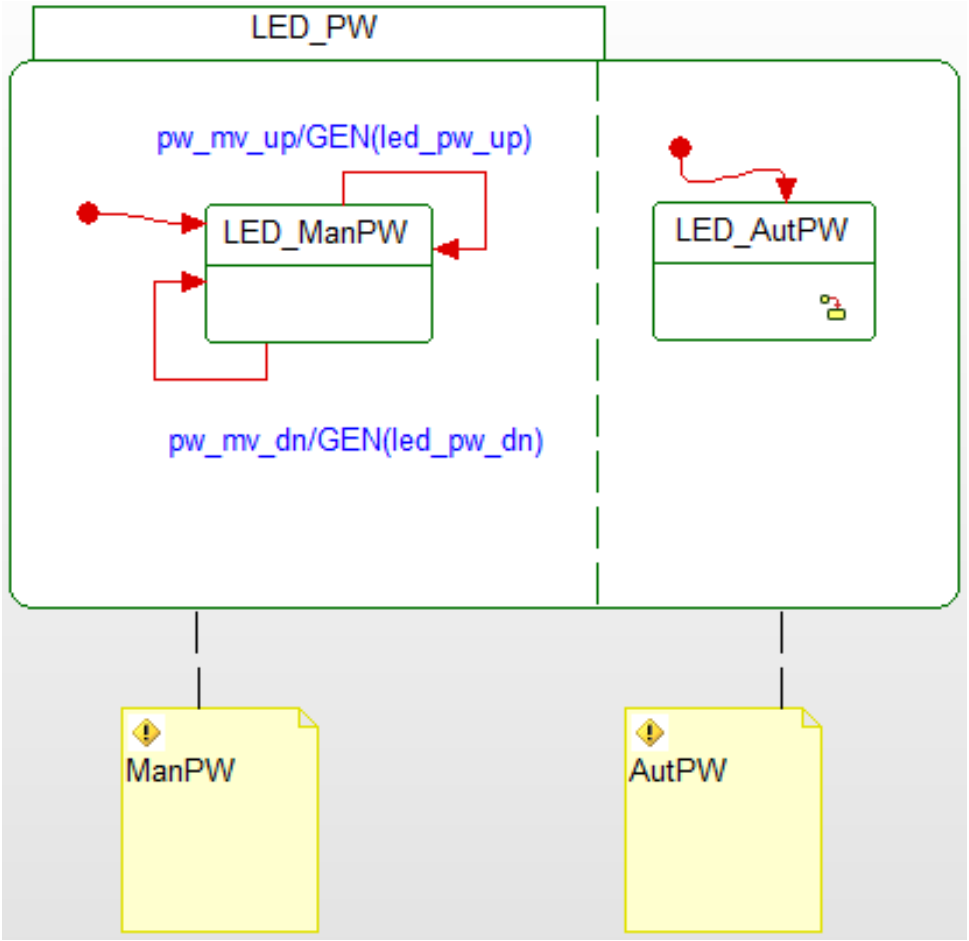

Figure A.14.: 150% Sub State Machine LED_PW

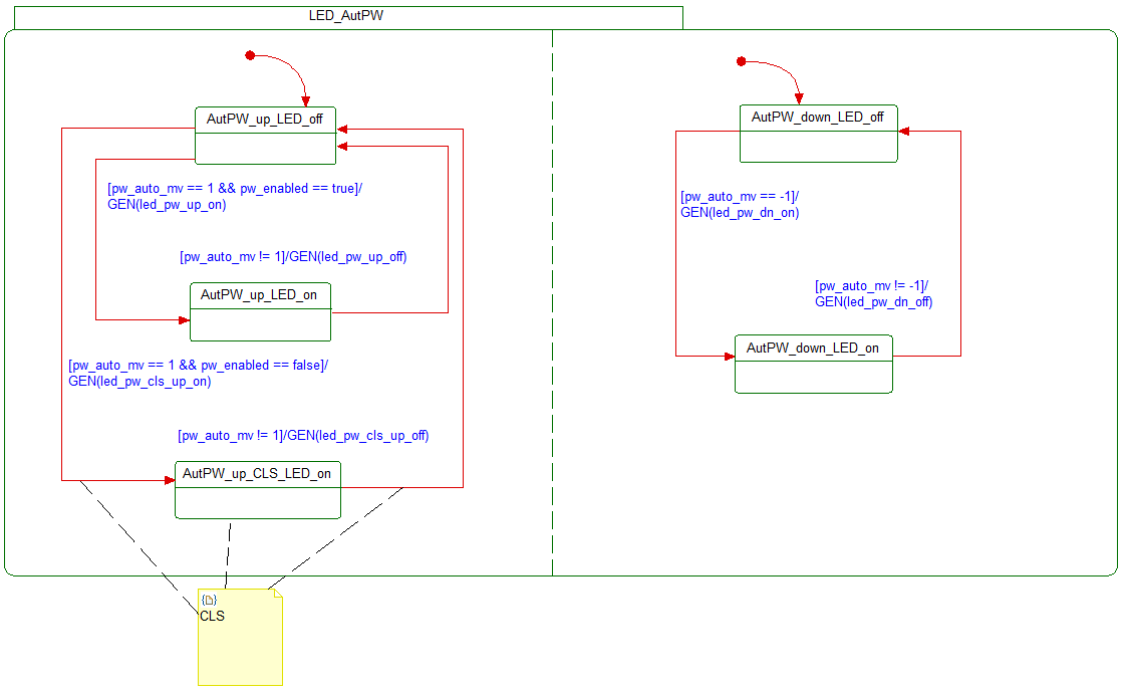

Figure A.15.: 150% Sub State Machine LED_AutPW

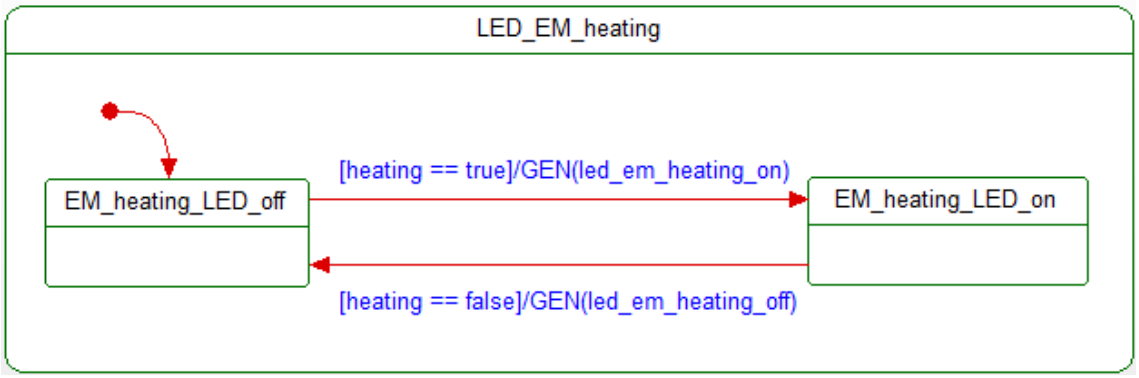

Figure A.16.: 150% Sub State Machine LED_EM_heating

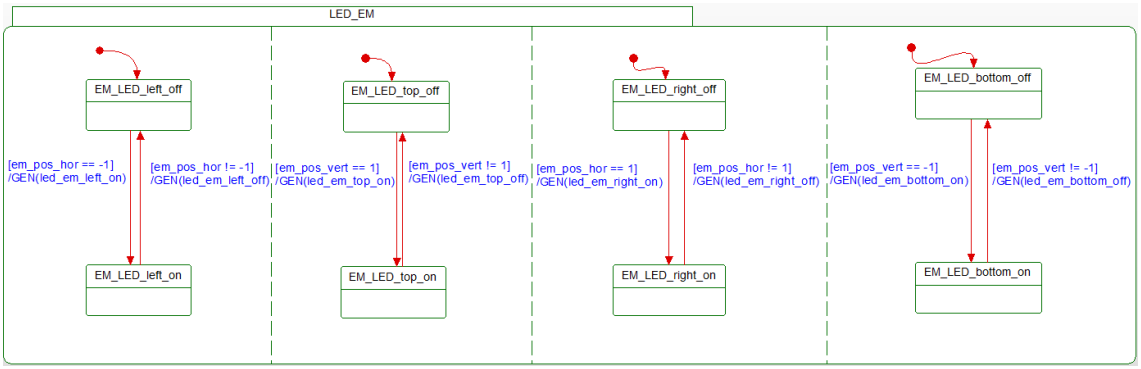

Figure A.17.: 150% Sub State Machine LED_EM

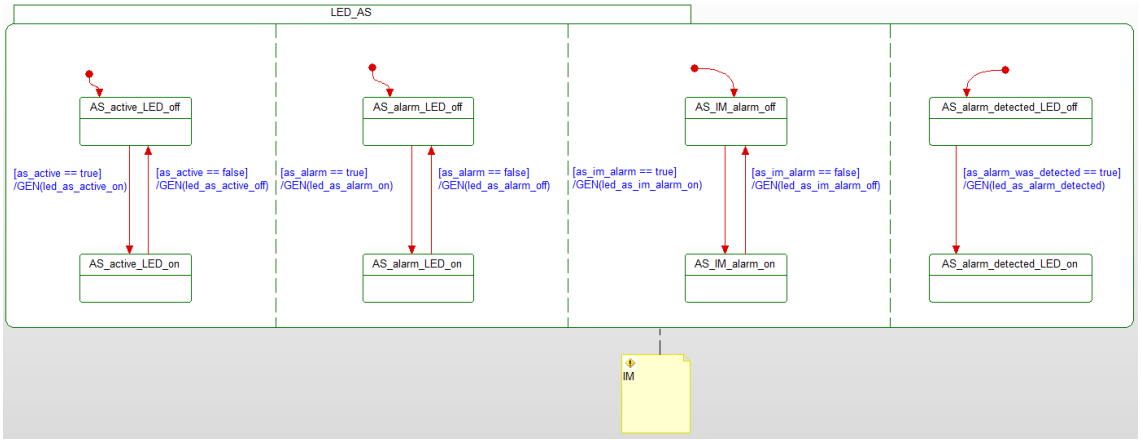

Figure A.18.: 150% Sub State Machine LED_AS

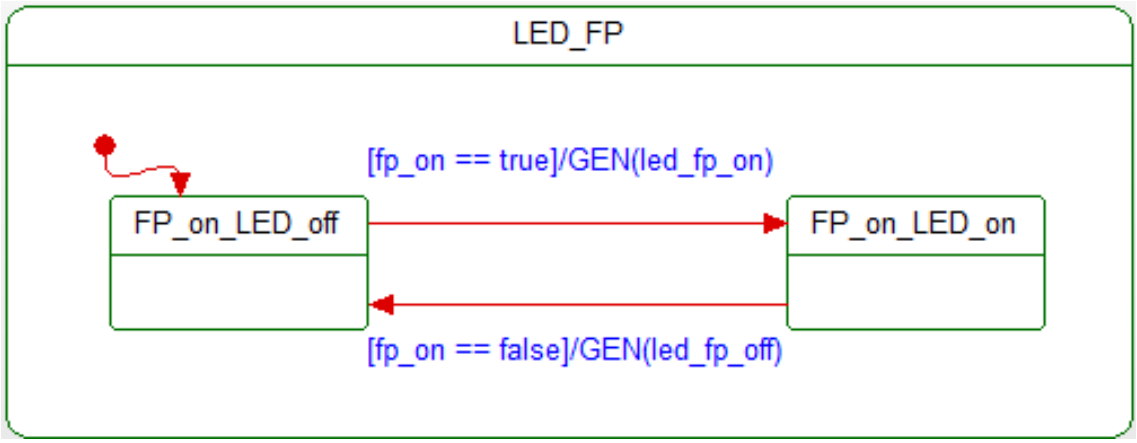

Figure A.19.: 150% Sub State Machine LED_FP

A.2. Definition of the Core Architecture Model in DELTARX

```
1  architecture BCS for featuremodel 'BCS.featuremodel'{
2    signals {
3      pw_but_mv_dn boolean
4      pw_but_mv_up boolean
5      em_but_mv_left boolean
6      em_but_mv_right boolean
7      em_but_mv_up boolean
8      em_but_mv_dn boolean
9
10     pw_but_up boolean
11     pw_but_dn boolean
12     em_but_right boolean
13     em_but_left boolean
14     em_but_up boolean
15     em_but_down boolean
16
17     em_pos_left boolean
18     em_pos_right boolean
19     em_pos_top boolean
20     em_pos_bottom boolean
21     em_mv_left boolean
22     em_mv_right boolean
23     em_mv_up boolean
24     em_mv_down boolean
```