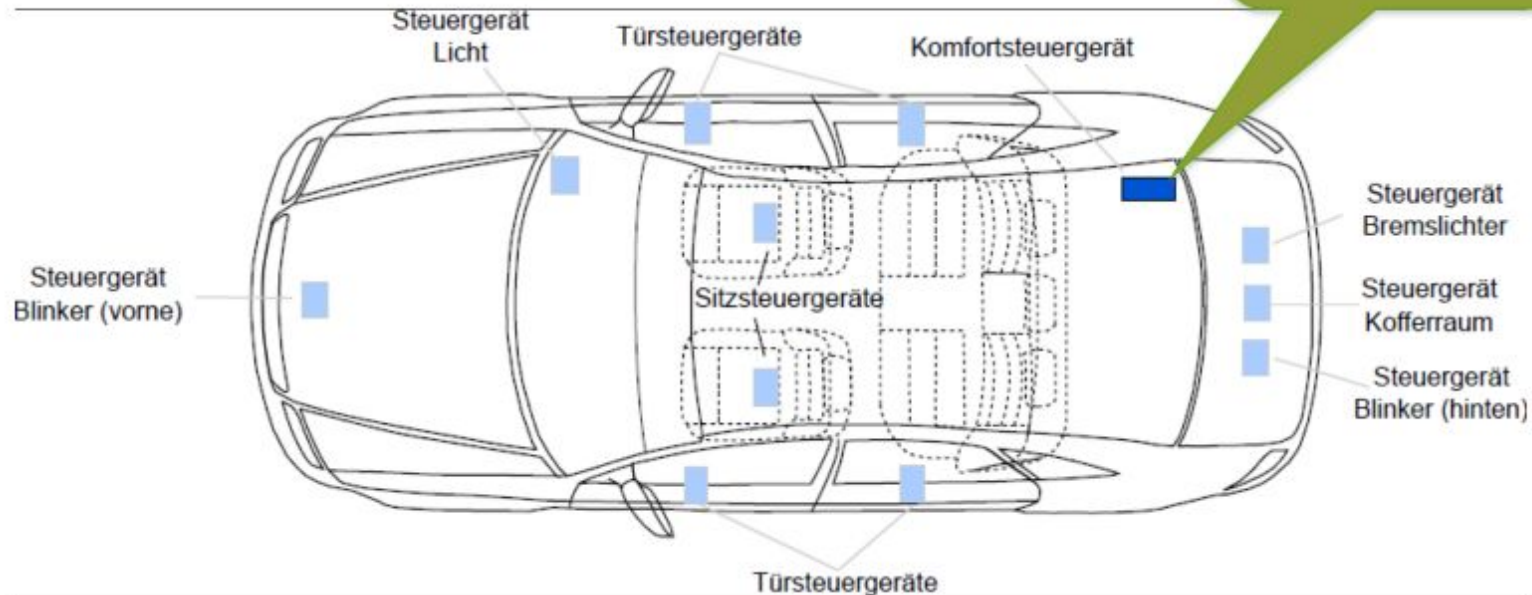


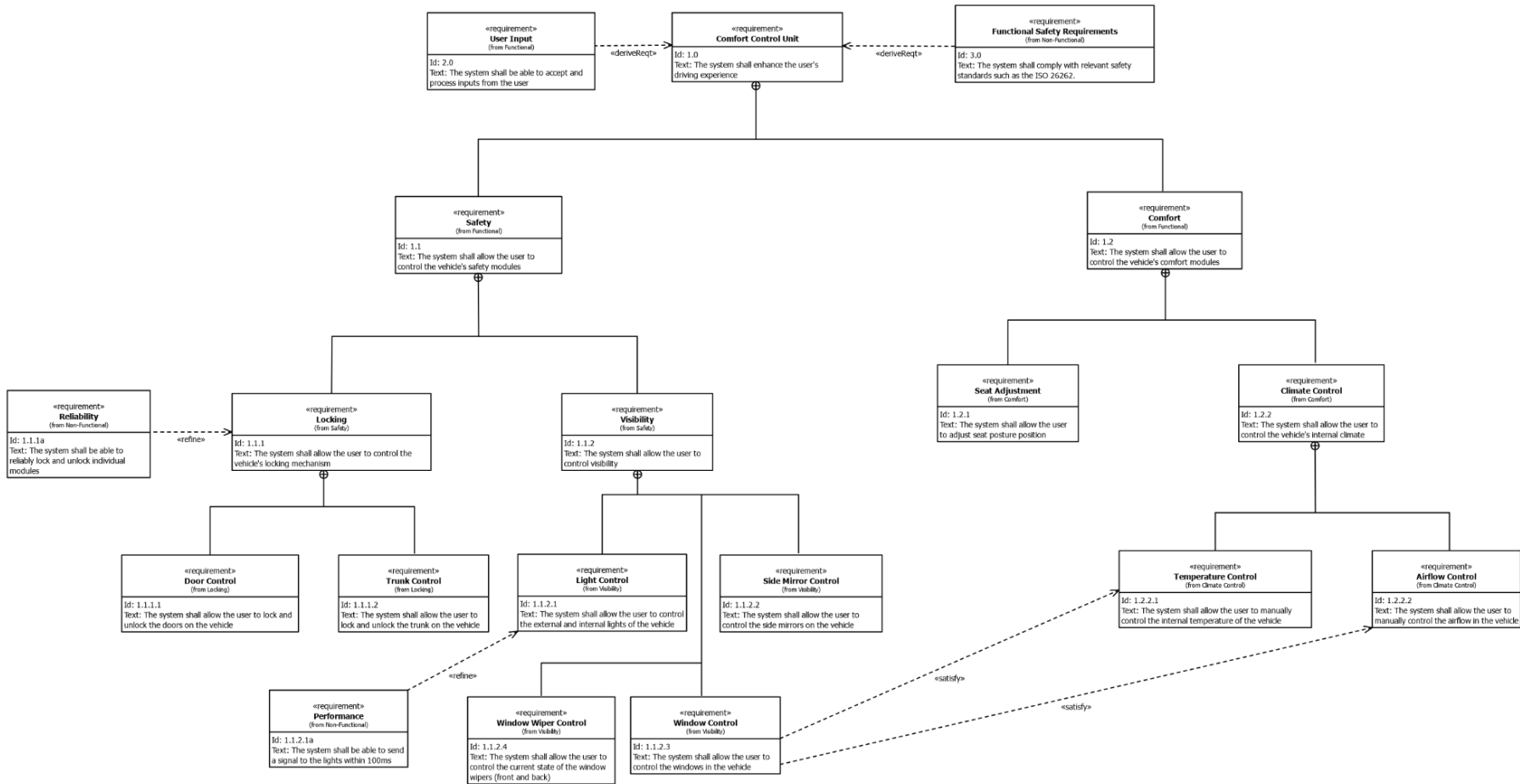
Comfort Control Unit in SysML

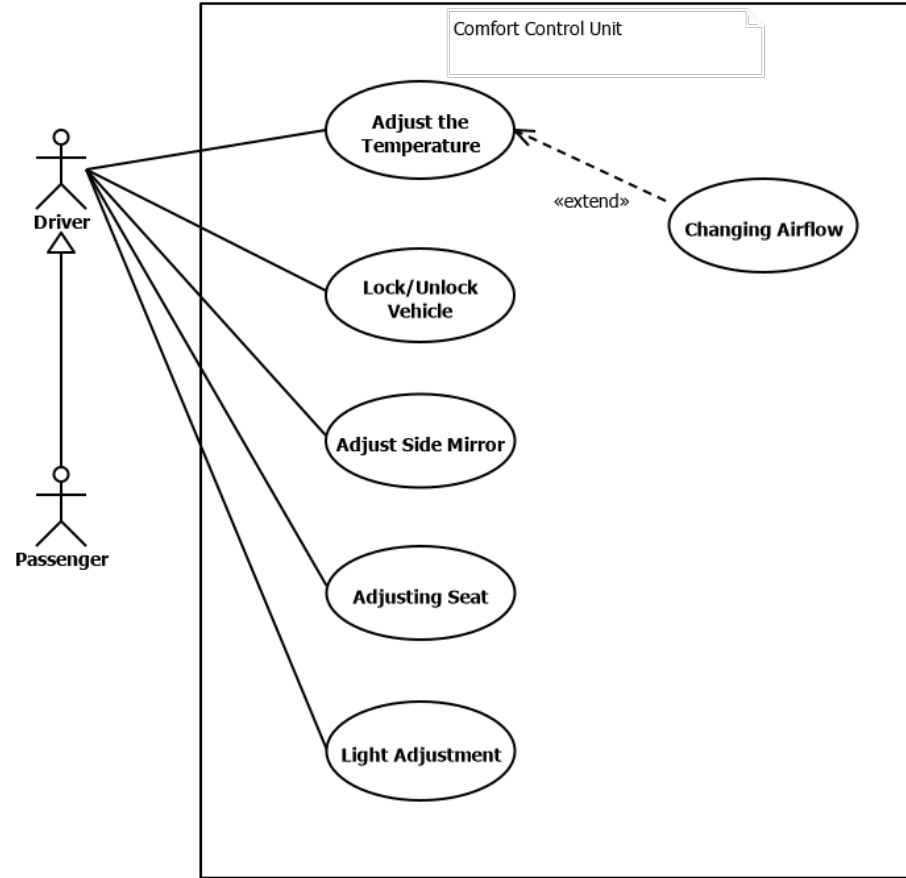
by:Kevin Davis, Felix Diekenbrock, Enea Robaj, Naved Afridi
Rashiq

Comfort Control Unit

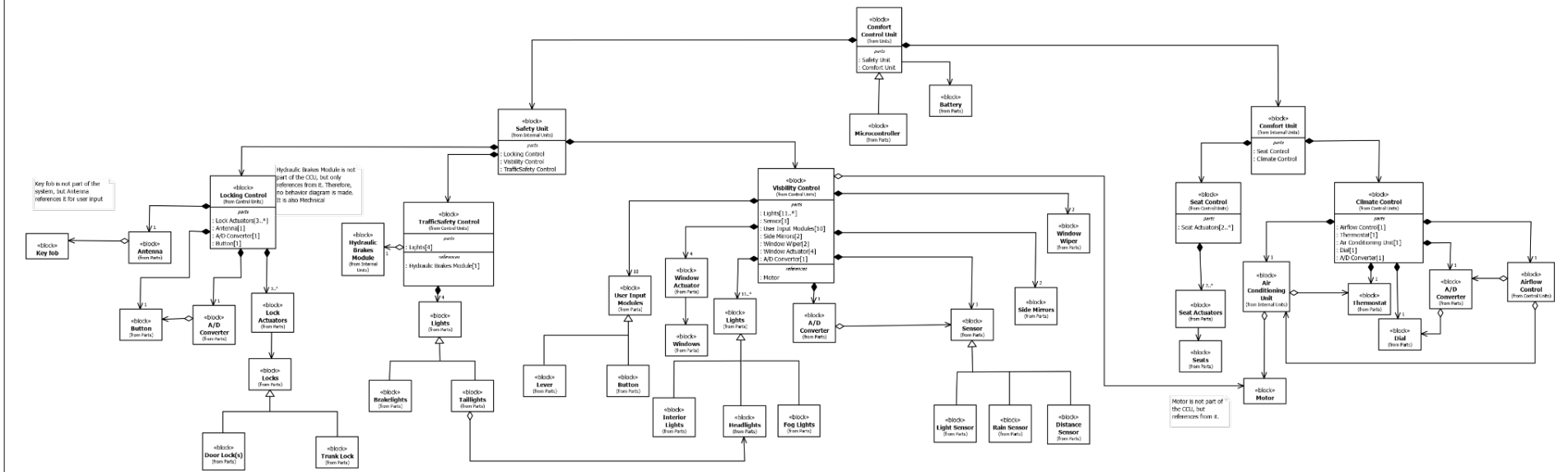
- System control lights, signals and doors of car
- Interfaces to other domain networks in car, like Powertrain
- Problems:
 - How to design?
 - **Completeness, Consistency and Requirements**

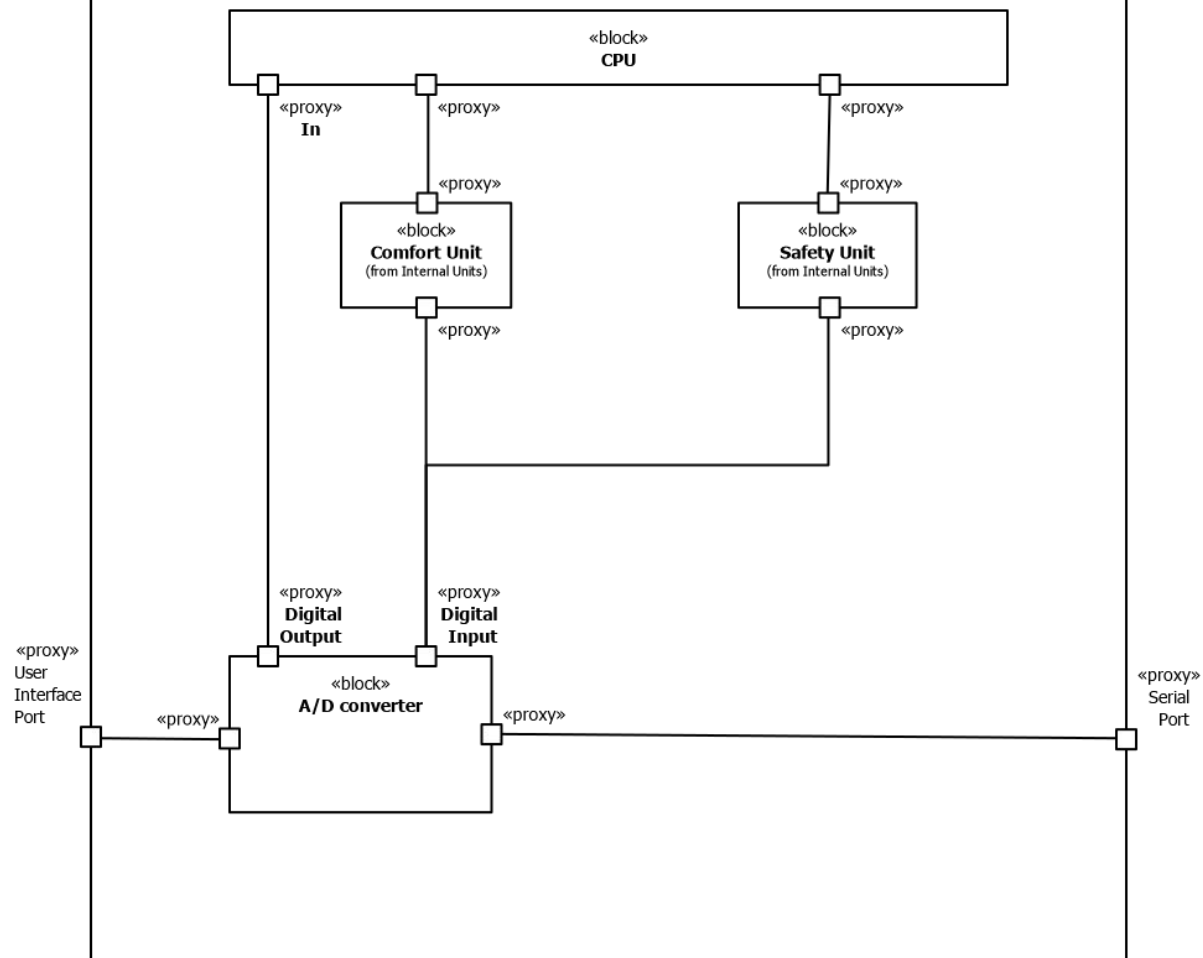






bdd [package] Structure [SystemComposition]





ibd [block] Seat Control [Seat Control]

«proxy»
Serial
Input

«proxy»

«block»
A/D Converter

«proxy»

Serial Signal

«proxy»

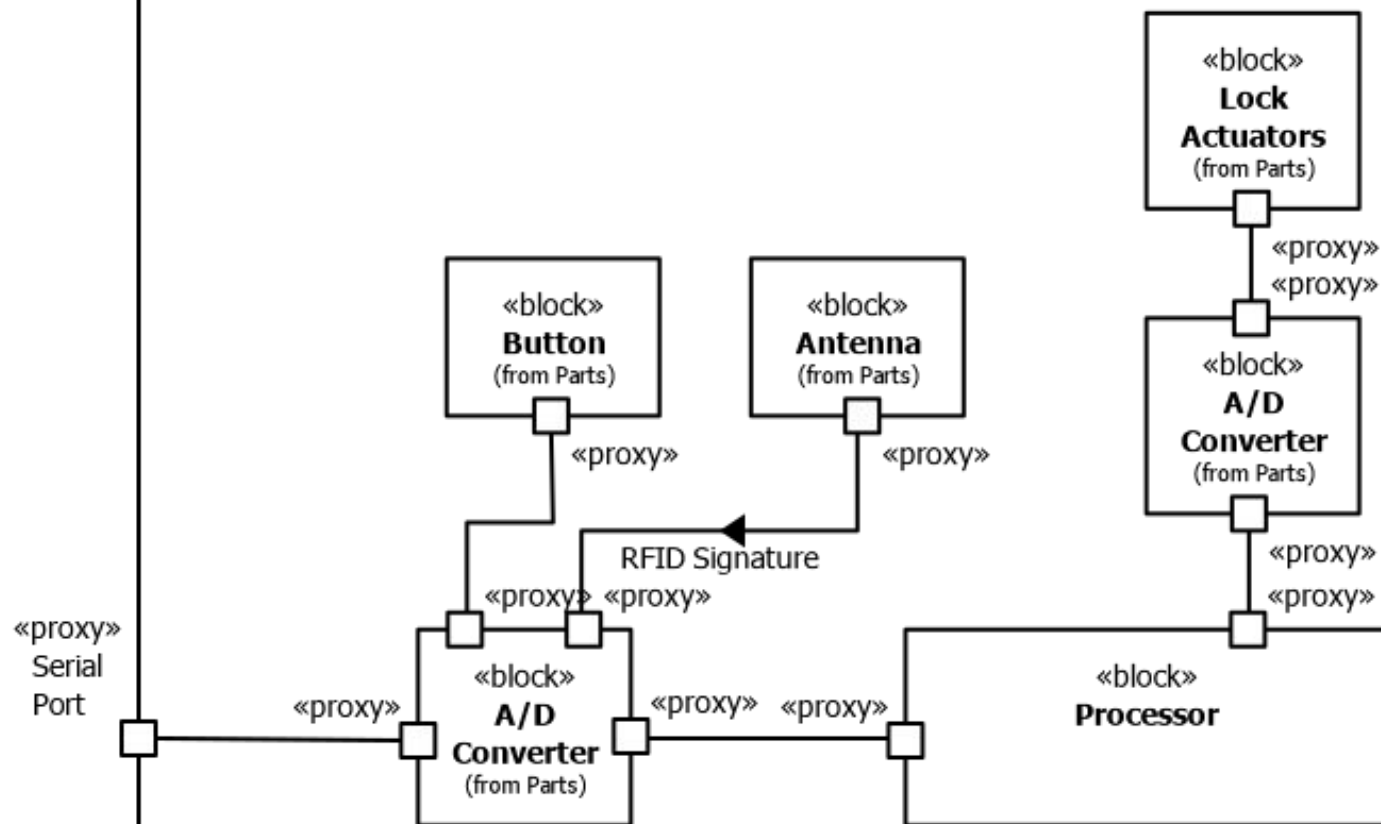
«block»
Signal Processor

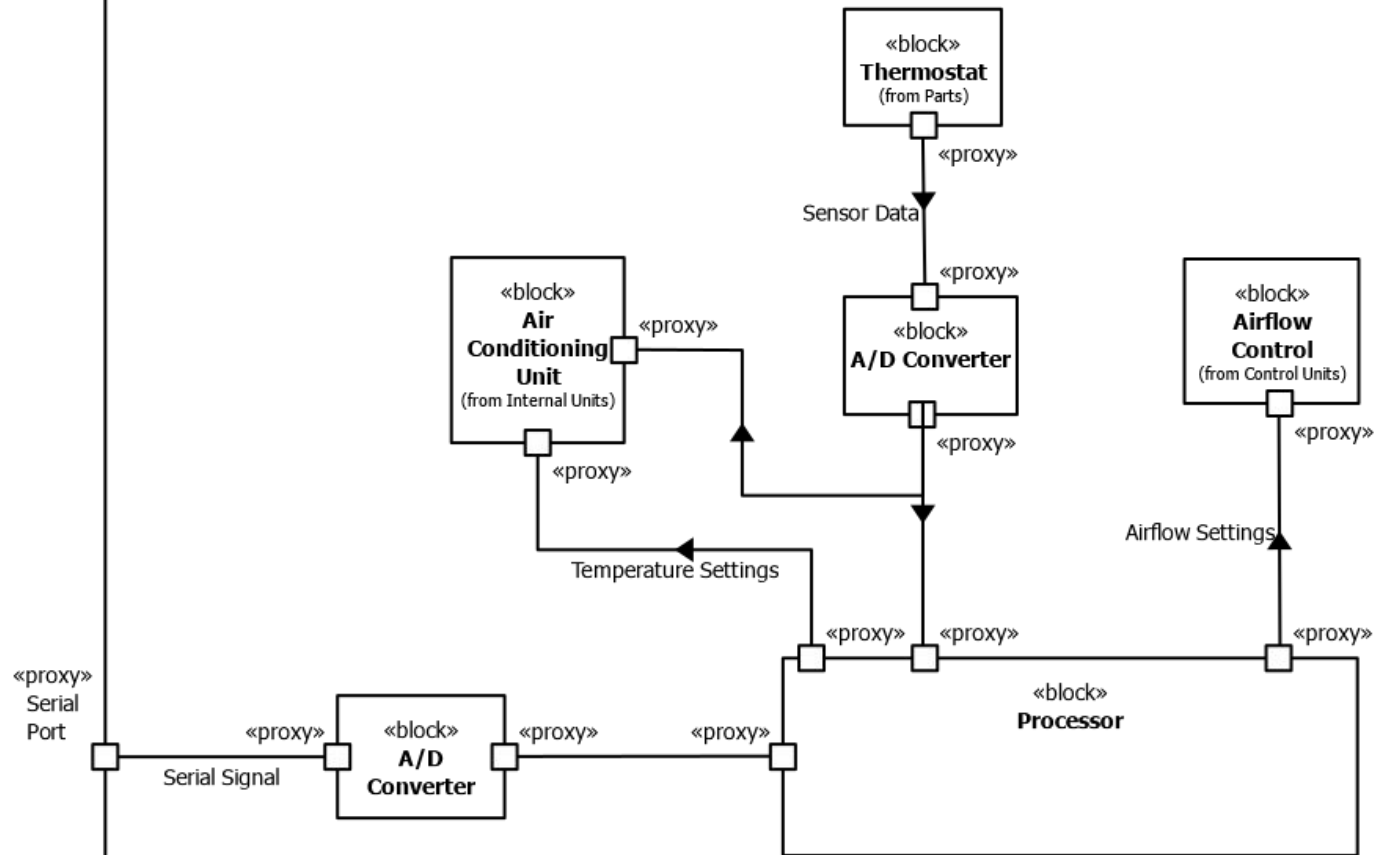
«proxy»

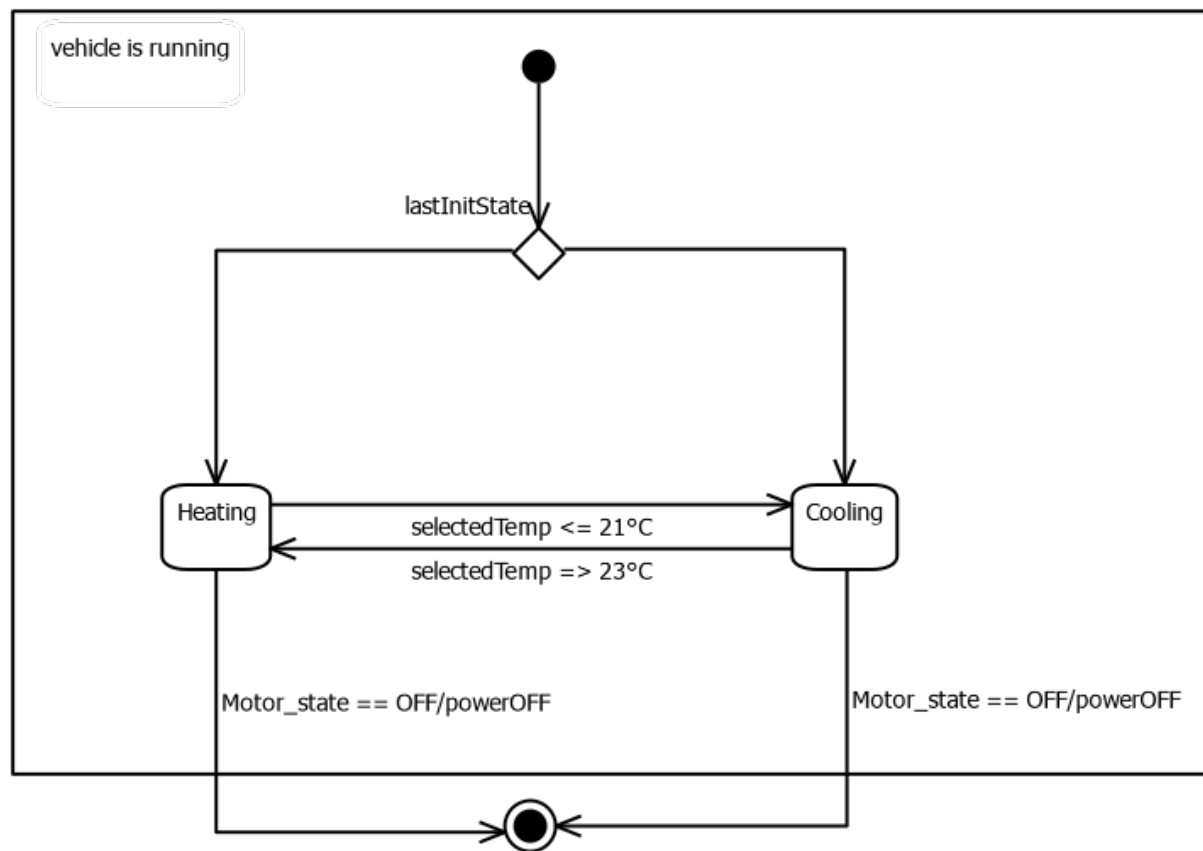
Angle/Position Data

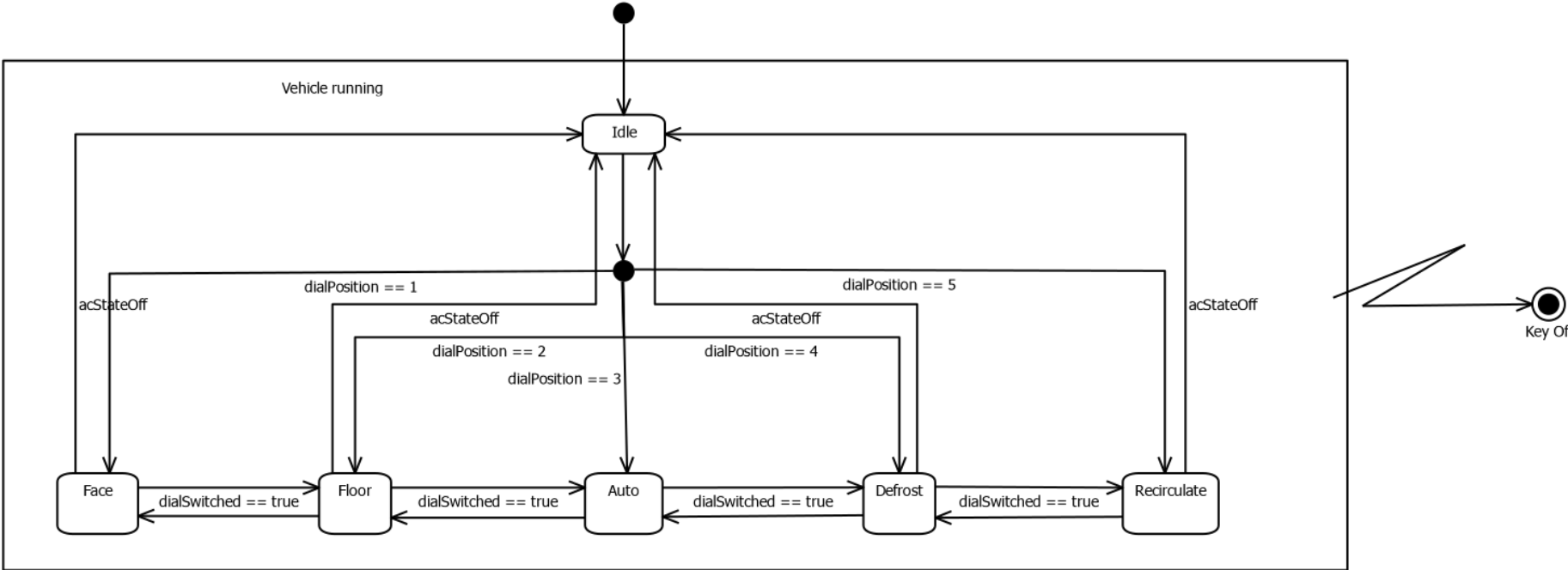
«block»
Seat Actuators

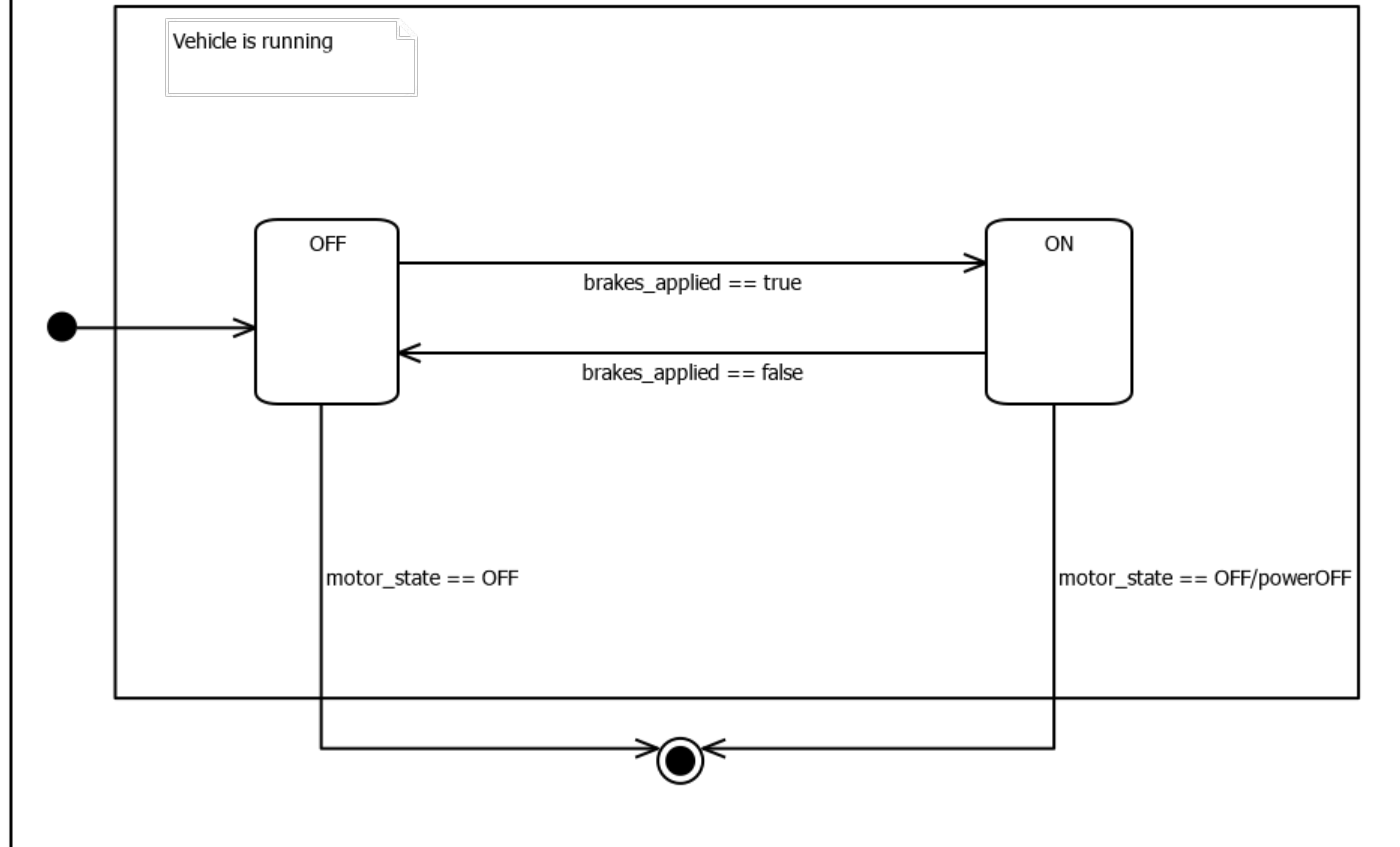
«proxy»



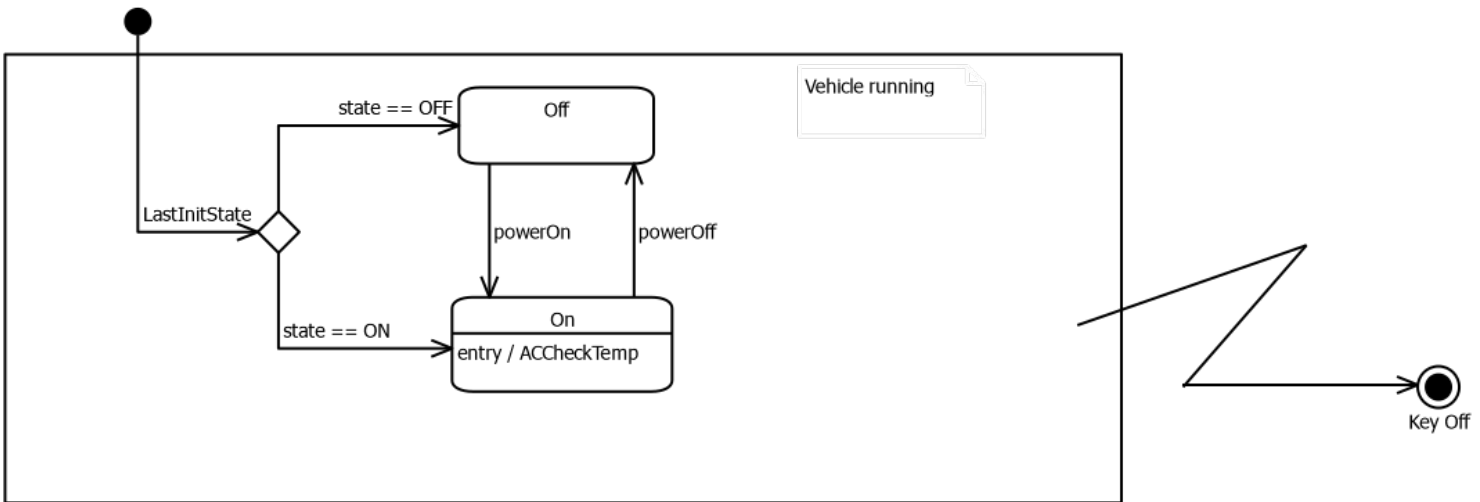




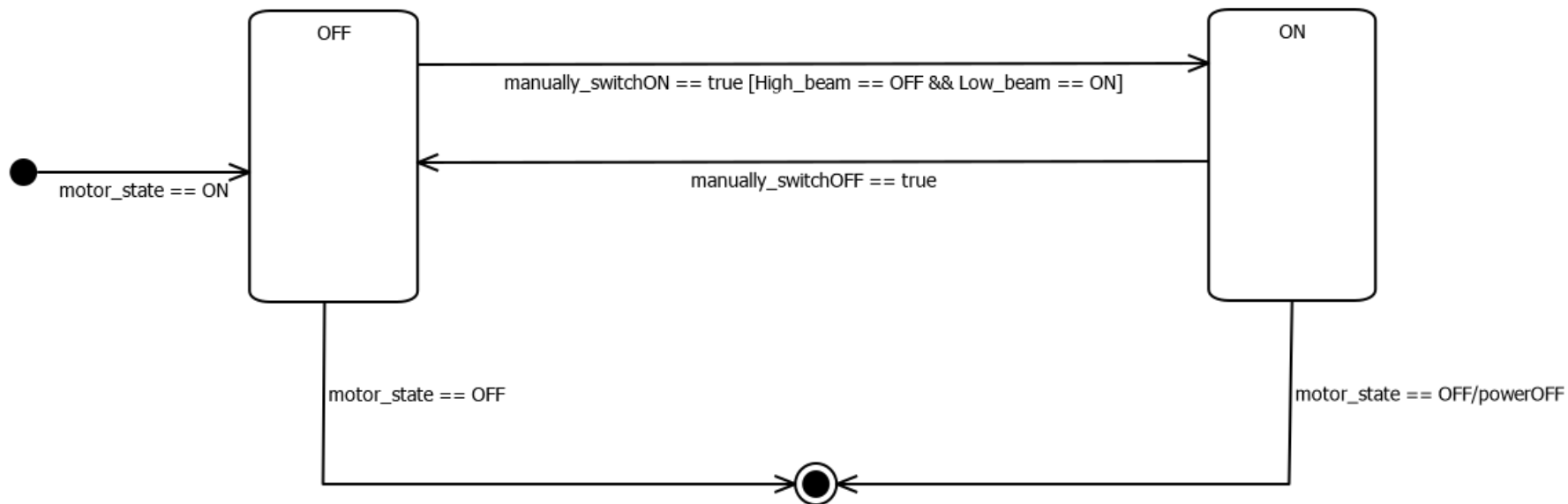




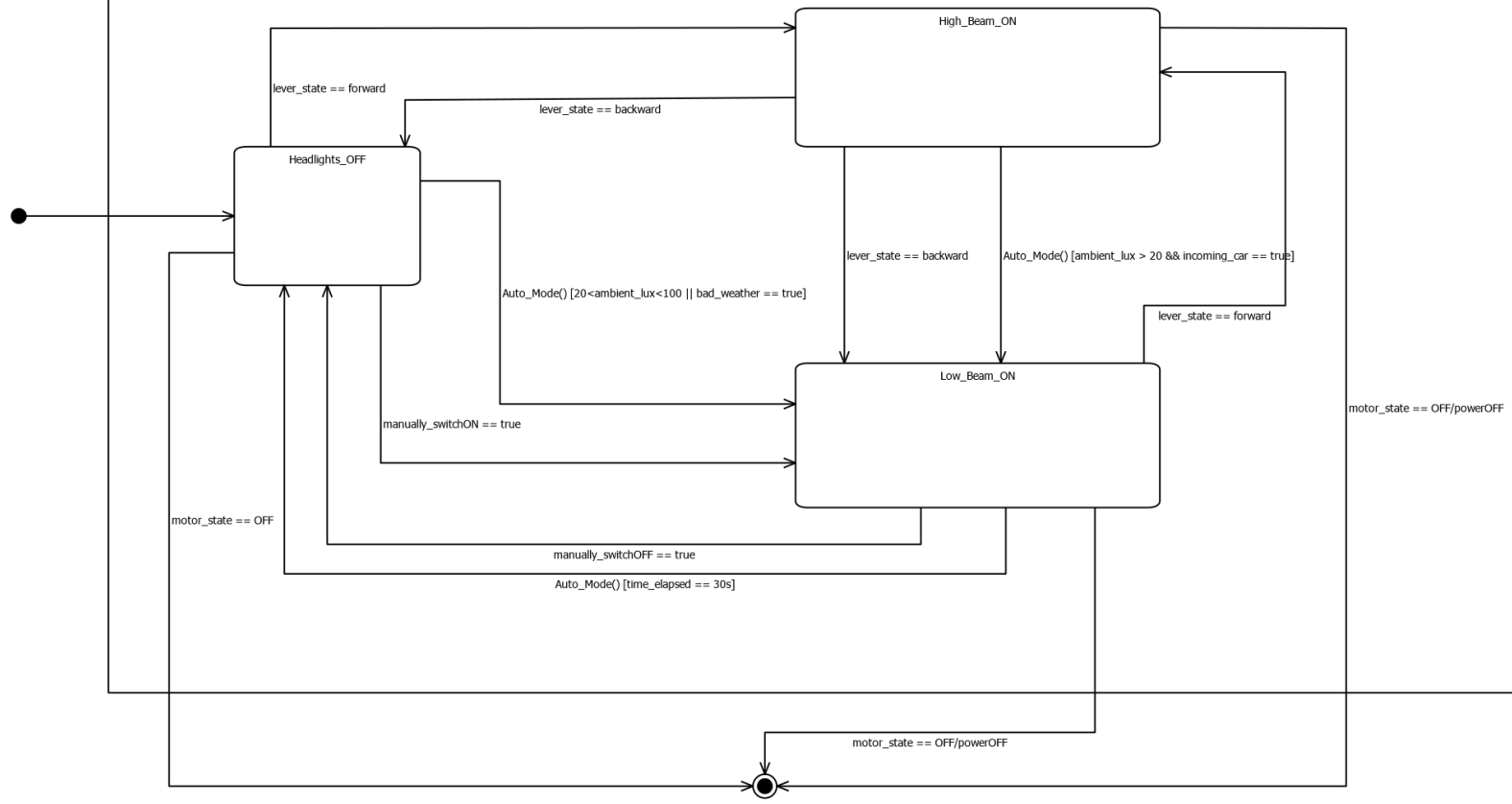
stm [state machine] AC Unit [Climate Control]

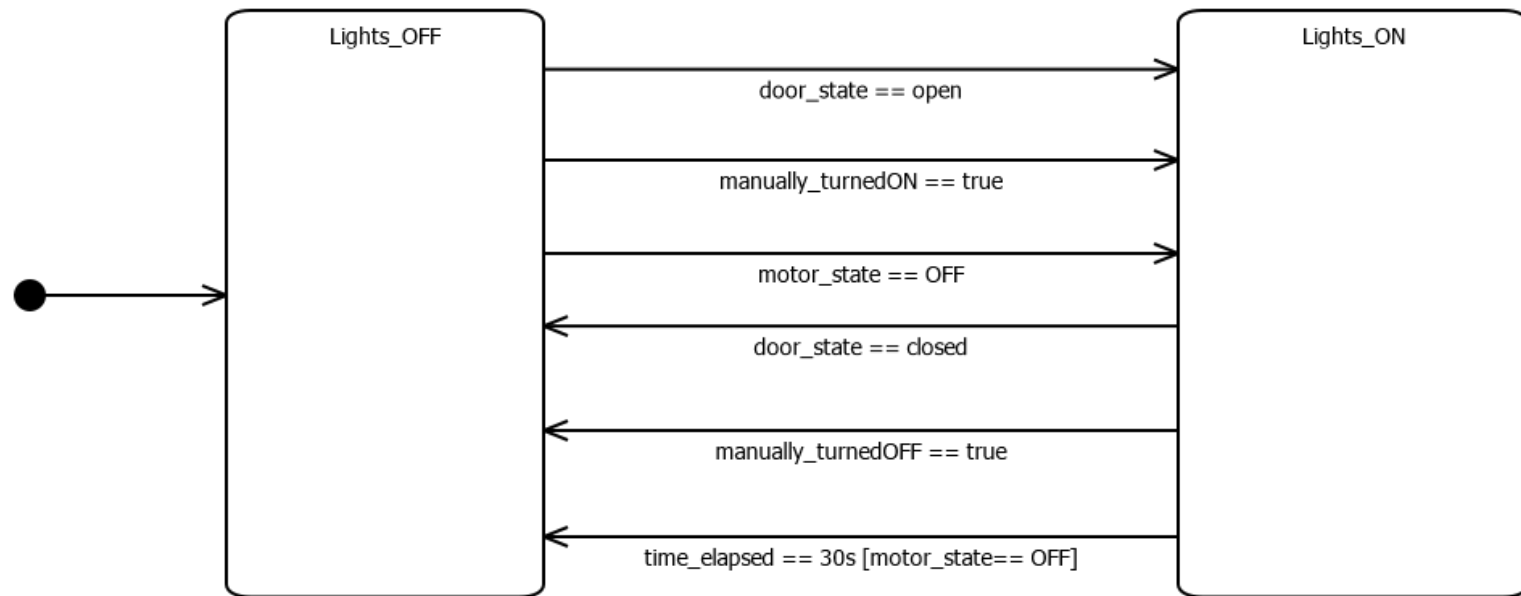


stm [state machine] FogLightStates [Visibility Control]

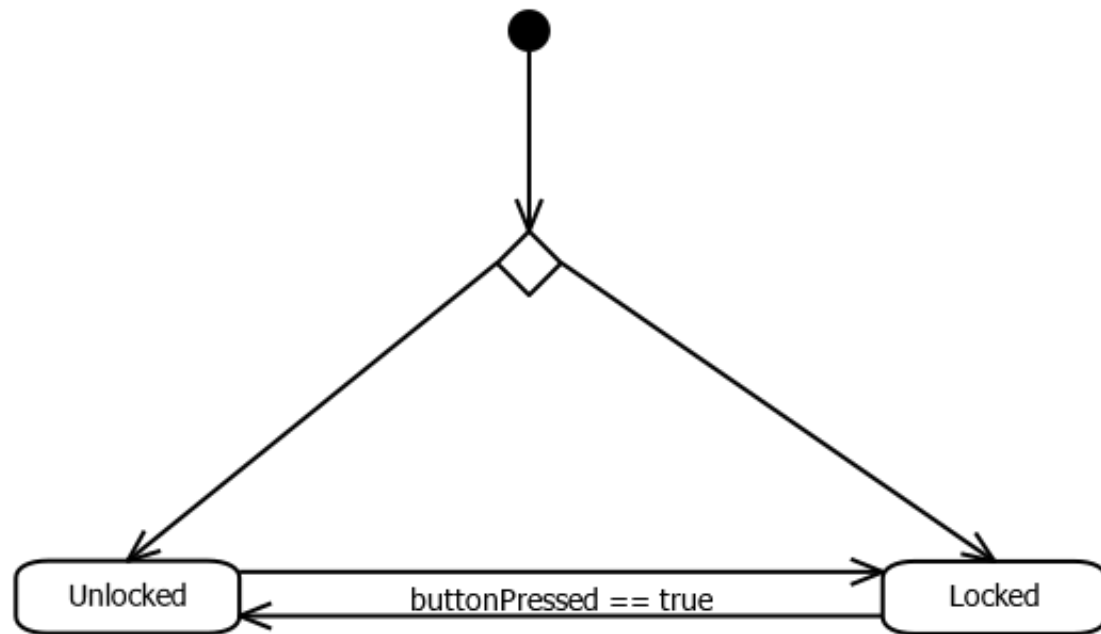


vehicle is running

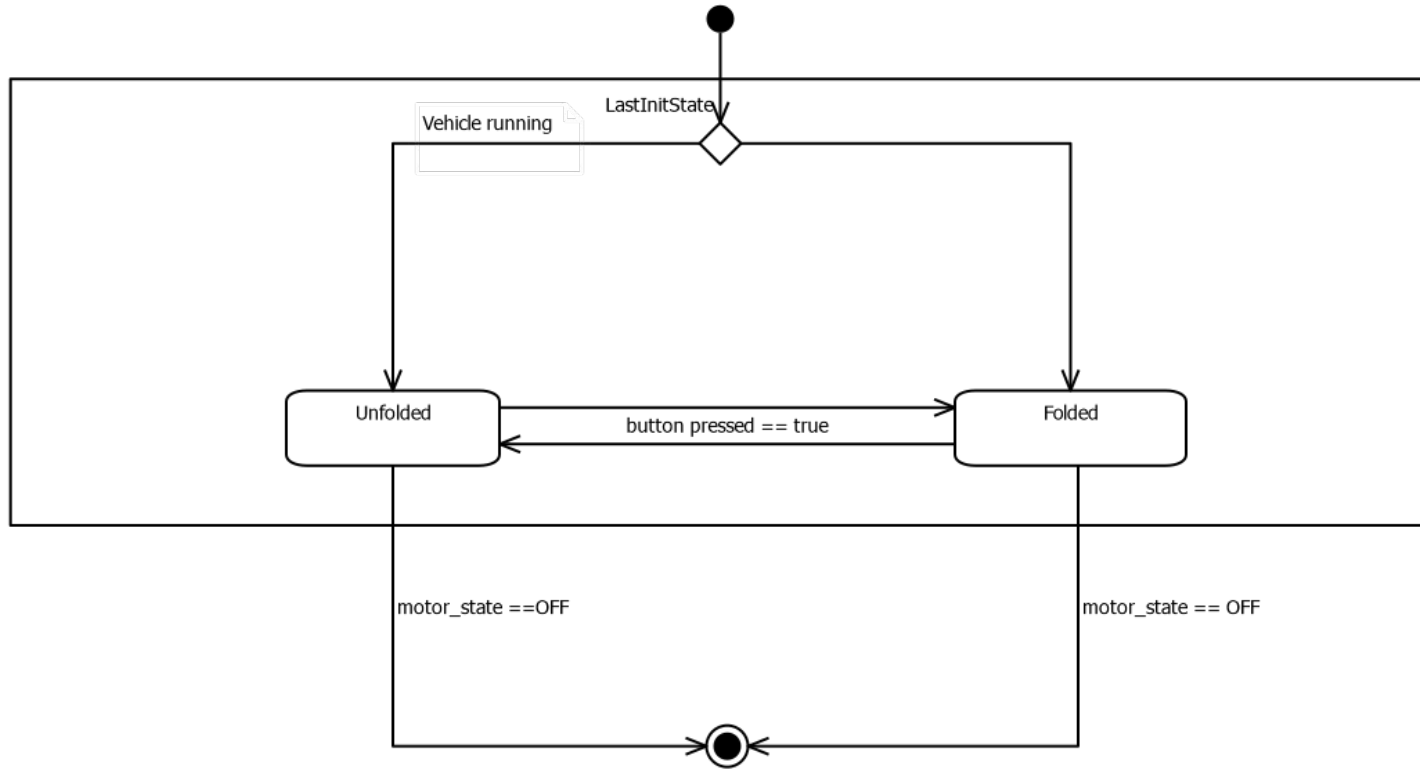




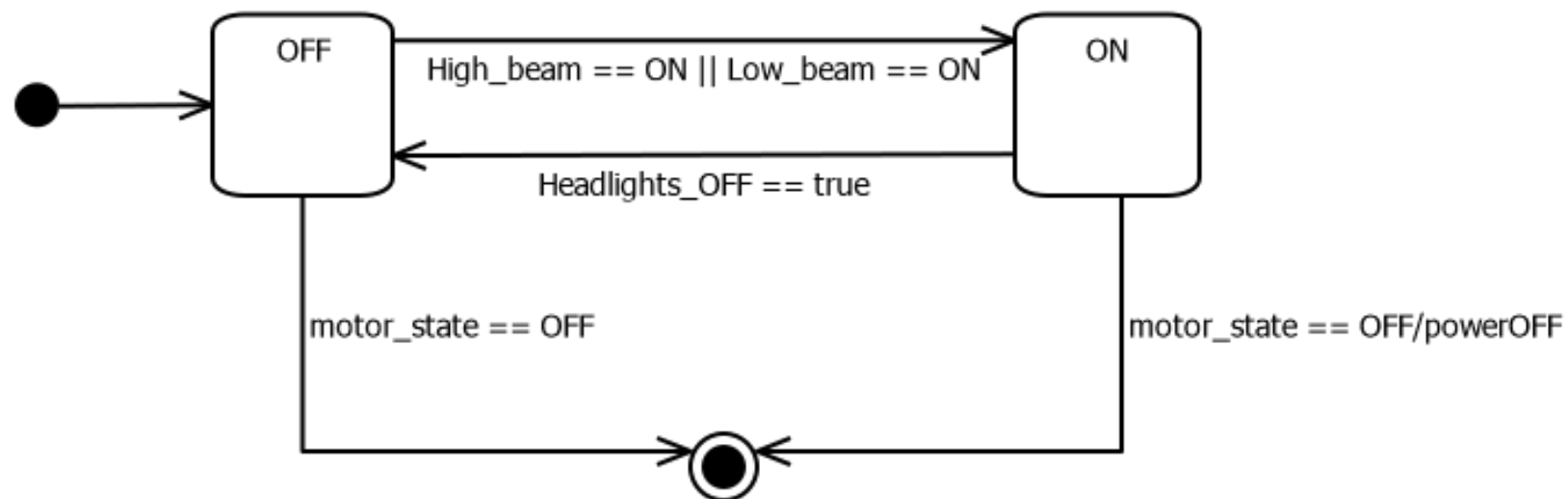
stm [state machine] LockingControlStates [Locking Control]

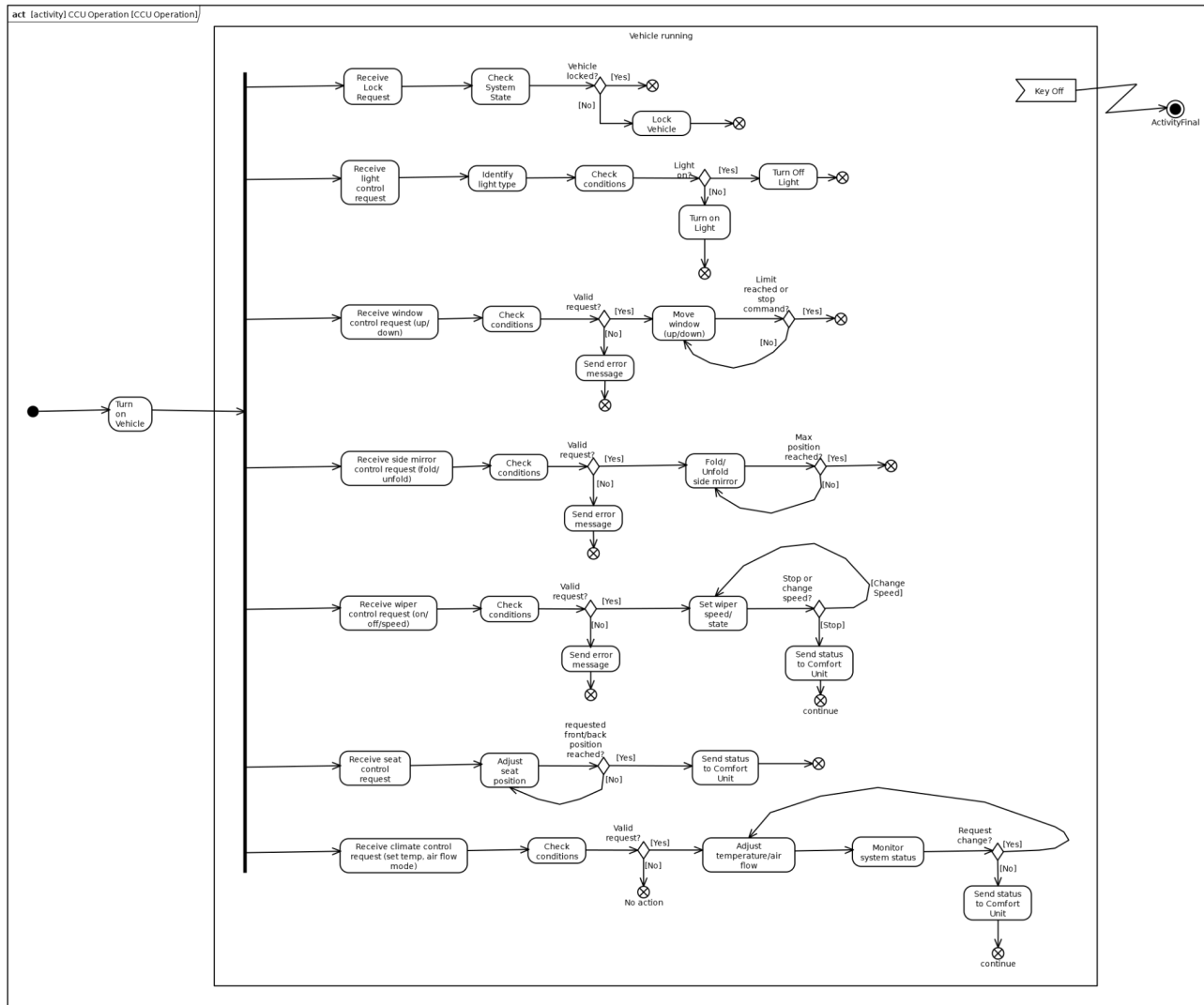


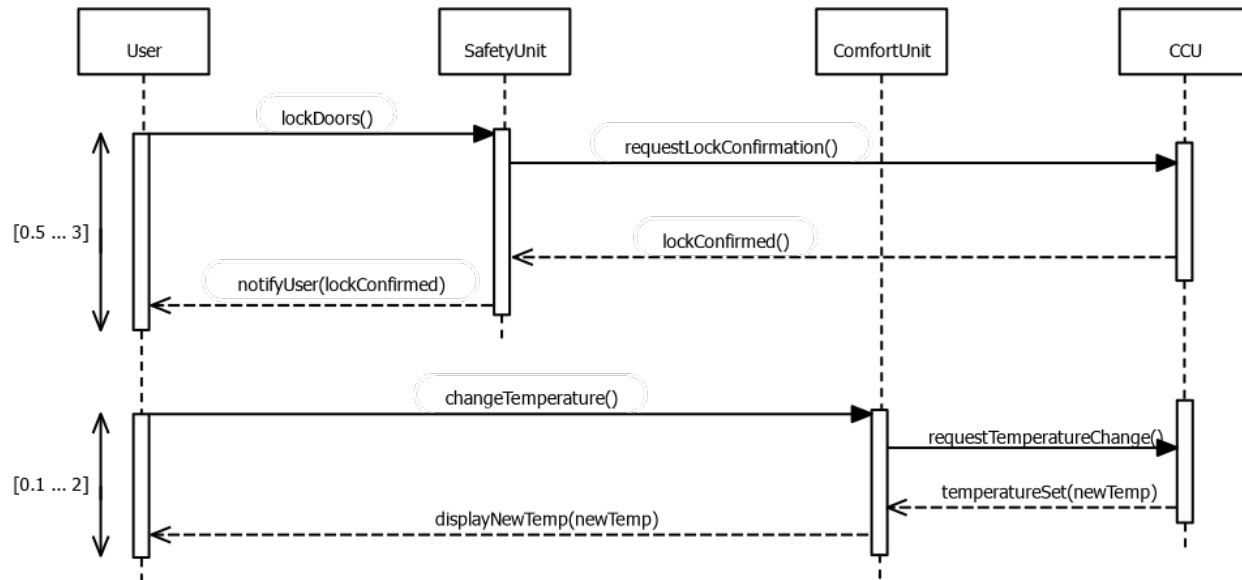
No pseudo final state, as the state machine is always running



stm [state machine] TaillightStates [Safety Control]







Thank You!