Communication Diagram:

Use-case:
Call elevator,
Passenger travelling in elevator

5.1   elev_set_motor_direction()
7.1   elev_set_motor_direction(0)
8.1   elev_set_button_lamp(..,0)
        [all buttons for this floor]
8.2   elev_set_open_door_lamp(1)
11.2   elev_set_open_door_lamp(0)

8.3   queue_removeOrder()
        [all orders on this floor]

FinalStateMachine

5.   ev_activeDirection()
7.   ev_arrivedAtTargetFloor()
8.   activeDirection()
11.   ev_timerIsTimeOut()

8.6   timer_start()
11.1   timer_stop()

Timer

EventManager

Queue

9.   timer_isTimeOut()
10.   timer_isTimeOut()

1.   elev_get_button_signal()
4.   elev_get_floor_sensor_signal()
6.   elev_get_floor_sensor_signal()
10   elev_get_button
12.   elev_get_button_signal()

I/O - hardware