Add-on II

Currently, RearECU uses CAPL code to implement a conversion of a light mode state to its physical value. The implementation is provided in the following file:

.\<ProjectName>\CANoe\RearECU.can

Move the light mode state conversion implementation from RearECU to MyECU.

The function 'on message msg_MyECU_2_Rear' shall be modified (see the picture below).

```
65 mon message msg_MyECU_2_Rear
66 {
67
      PutValue(env_LeftHeadlightSteering, this.sig_LeftHAngle);
68
      PutValue(env_RightHeadlightSteering, this.sig_RightHAngle);
69
70
     if (this.sig_LeftMode == 0)
71
72
       PutValue(env_LeftHeadlightMode, 50);
73
       PutValue(env_RightHeadlightMode, 50);
74
75
     else if (this.sig LeftMode == 1)
76
77
        PutValue(env_LeftHeadlightMode, 70);
78
       PutValue(env_RightHeadlightMode, 120);
79
80
     else if (this.sig LeftMode == 2)
81
82
        PutValue(env LeftHeadlightMode, 140);
83
       PutValue(env_RightHeadlightMode, 200);
84
85
      else
86
87
       PutValue (env LeftHeadlightMode, 255);
88
       PutValue(env_RightHeadlightMode, 255);
89
```

Figure 1- The content of 'on message msg MyECU 2 Rear' function (CAPL code)

1) The signals sig_LeftMode and sig_RightMode are 2b length. In order to send physical values (range from 0 to 255) from MyECU to RearECU the length of the singals shall be extended. To modify it use the following dbc file:

```
\< ProjectName >\Config\ InputDataBases\CAN.dbc
```

Is the signal naming still valid?

- 2) Update BSW and SWCs
 - 2.1) Import the new dbc file (i.e. configure BSW)
 - 2.2) Modify SWC design according to the new requirement
 - 2.3) Implement the conversion logic and test ECU functionality

Hints:

- Modify algoritham of CtApAFSController SWC
- ECU functionality shall remain the same