Req\_M002 (about 120° conduction mode) is no longer applicable.

The changes related to having sine **commutation** would affect a lot of modules in the eVCP:

-**Commutation** strategy has to be completely reworked (All 3 phases conducting, reference and carrier for PWM generation of RMS sinusoidal signals or a **lookup table** with **Duty cyle** as a function of the electrical rotor position)

-**Rotor position** becomes critical (hardware change using rotary encoders or algorithms to estimate electrical position, for example use the **velocity** and the knowledge of being at a given 60deg electrical interval)

-Issues might arise at high speed due to having smaller time intervals for the sine generation (the sine frequency increases with **speed** ) -> Further hardware changes/software optimizations required,

**Change tokens:**

1/ Commutation

2/-lookup table

3/ Motor duty cycle

4/ Rotor position

5/ Motor velocity (speed)