



MCAL APIs

- DIO

```
E_status DIO_init(ST_DIO_config_t* configurations);  
E_status DIO_write(uint8_t port, EN_pins pin, uint8_t data);  
E_status DIO_read(uint8_t port, EN_pins pin, uint8_t *data);  
E_status DIO_toggle(uint8_t port, EN_pins pin);
```

- TIMER

```
E_status TIMER_init(ST_TIMER_config_t* configurations);  
E_status TIMER_start(uint64_t ticks);  
E_status TIMER_read(uint8_t *value);  
E_status TIMER_set(uint8_t value);  
E_status TIMER_checkStatus(uint8_t *status);
```

- PWM

```
E_status PWM_init(ST_PWM_config_t* configurations);  
E_status PWM_start(EN_frequency_t frequency, EN_duty_t  
E_status dutyCycle); PWM_stop(void);
```

ECUAL APIs

- BUTTON

```
E_status Button_init(EN_BTN_config_t configurations);  
E_status Button_GetState(uint8_t* status);  
E_status Button_Update(void);
```

- MOTOR

```
E_status MOTOR_init(void);  
E_status MOTOR_SetDirection(EN_DIR_t Direction);  
E_status MOTOR_SetSpeed(EN_Speed_t DutyCycle);  
E_status MOTOR_Stop(void);
```

- APP

```
E_status CAR_init(void);  
E_status CAR_update(void);
```