



1. MCAL

1.1. DIO APIs

```

/* This Function determine the Pin direction Whether input or output */
E_status DIO_SetPinDirection(ST_DIO_config_t * Configurations);
typedef ST_DIO_config_t{
    EN_portname_t port_name;
    EN_portno_t pin_no;
    EN_pinstate_t state;           // input or output
}ST_DIO_config_t;
E_status DIO_SetPinValue(uint8_t au8_port_no, uint8_t au8_pin_no, uint8_t au8_value);
E_status DIO_GetPinValue(uint8_t au8_port_no, uint8_t au8_pin_no, uint8_t * data);
E_status DIO_TogglePin(uint8_t au8_port_no, uint8_t au8_pin_no);

```

1.2. Usart APIs

```

error_state usart_Init(ST_UART_config_t * USART_InitStruct);
error_state usart_SendData(uint8_t data_transmitted);
uint8_t usart_ReceiveData(void);
error_state usart_SendString(uint8_t *str);
uint8_t * usart_ReceiveString(uint8_t * au8data ,uint8_t terminating_character);

```

```

typedef struct ST_UART_config_t{
    uint16_t USART_BaudRate;
    uint8_t USART_WordLength;
    uint8_t USART_StopBits;
    uint8_t USART_Parity;
    uint8_t USART_Mode;
}ST_UART_config_t;

```