**CDD**

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| --- | --- | --- | --- |
| Version | Author | Changes | Status |
| 1.1 | Bishoy | Initial version | Reviewed |
| 1.2 | Basma | Modified | Released |

**Description:**

This is the component design document of the project. It depends on the GDD as it extracts the info from it.

**MCAL:**

- u8 DIO\_init(void);

- u8 DIO\_SetPortDir(u8 Copy\_u8PortId, u8 Copy\_u8PortDirection);

- u8 DIO\_SetPortValue(8uCopy\_ u8PortId ,u8 Copy\_u8PortValue);

- u8 DIO\_GetPortValue(u8 Copy\_u8PortId,u8 \*Copy\_u8PortValue);

- u8 DIO\_GetPinValue(u8 Copy\_u8PinId,u8 \*Copy\_u8PinValue);

**Req\_CDD\_ID\_1**

Covers: **GDD\_ID\_0, GDD\_ID\_1, GDD\_ID\_2, GDD\_ID\_3, GDD\_ID\_4**

**False**

Check for Port Number

Return Error state = 1

**True**

Return Error state = 1

**False**

Check for Port Direction

**True**

Check for port number

Assign a specified direction to a specified port