Hardware = 4 Relay Card, Portal = User Interface

Relay ID From {“id”: 1}, {“id”: 2}, {“id”: 3}, {“id”: 4}

**For relay schedule settings.**

Topic 2 from Portal to Hardware: goldbox-v2/b1/GBD20240700/2/settings

Topic 1 from Hardware to Portal: goldbox-v2/b1/GBD20240700/1/settings

{"dataDate":20240518073300,"data":{"relaySetting":[{"id":1,"count":3,"schedule":[{"start":"00:30","end":"02:00"},{"start":"11:30","end":"15:00"},{"start":"18:00","end":"21:00"}]}]}}

After publish settings from portal to hardware, if all the settings are applied to hardware, then hardware send same json to this topic 1. This means now portal update following settings to its database for the corresponding hardware ID.

**For Relay status settings.**

Topic 4 from Portal to Hardware: goldbox-v2/b1/GBD20240700/2/status

Control commands issued:

3 – Portal forces relay to be high level

4 – Portal forces relay to be low level

5 – Portal will set the relay to work on a given schedule

Topic 3 from Hardware to Portal: goldbox-v2/b1/GBD20240700/1/status

Control commands confirm:

3 – Portal forces relay to be high level

4 – Portal forces relay to be low level

5 – Portal will set the relay to work on a given schedule

Topic from Hardware to Portal by schedule: goldbox-v2/b1/GBD20240700/1/status

Relay reports schedule execution status:

1 – The relay will be set to a high level by Schedule

2 – The relay will be set to a low level by Schedule

Topic from Hardware to Portal by schedule: goldbox-v2/b1/GBD20240700/1/status

Relay reports status after reconnected:

1 – The relay is automatically scheduled to ON (high level)

2 – The relay is automatically scheduled to OFF (low level)

3 – The relay is forced to ON (high level)

4 – The relay is forced to OFF (low level)

{"dataDate":20211201160105,"data":{"status":[{"id":1,"status":3}]}}

After publish status from portal to hardware, if all the status are applied to hardware, then hardware send same json to this topic 3. This means now portal update following status to its database for the corresponding hardware ID.

**To Ensure Successful command:**

* As soon as any command is sent to hardware from portal, hardware needs to publish latest status of each relay on every change either sent by Portal or manually on hardware.

