**ALL MESSAGE INFORMATION WHICH WILL USE FOR COMMUNICATION IN SONOFF DEVICE**

**MESSAGE FROM MOBILE SIDE:**

**FOR COMMUNICATION OVER CLOUD AND ALSO LOCALLY:**

1. **For getting the information about devise is connected with the server or not.**

**Message**: {"dev\_id":"dev-1","tsk":"give\_stat","msg":"rualive"}

1. **For changing the status of connected device from mobile App.**

**Message**: {"dev\_id":"dev-1","tsk":"chnge\_stat","msg":"1/0"}

1. **For making device conditionally on/off:** if user want to control device like if temperature is in between 5oc to 15oc than connected device will get turned on otherwise it will be turned off.

**Message**: {"dev\_id":"dev-1","tsk":"cond\_giv","fr":"5","to":"15","stat":"1"}

1. **Remove the conditional on/off of the device.**

**Message**: {"dev\_id":"dev-1","tsk":"cond\_rmv"}

1. **To change the MODE of operation (Auto/Manual)**

**Message:**{“dev\_id”:”dev-1”,”tsk”:”mode”,”mode”:”1/0”} ….. 1:Auto, 0: Manual

**TO FORM A GROUP OF DEVICES**

1. **To including device in to the group.**

**Message**: {"dev\_id": "dev-1","tsk":"grp\_mak", "id":"g1",”grp\_type”:”themostat/cooler/lighting”}

1. **Set value of permanent hold device.**

**Message**:

**For Hvac system:**

{“dev\_id”:”grp\_id”:”tsk”:”hold”,”grp\_type”:”thermostat”,“cid”:[3,id1,id2],“hid”:[3,id1,id2],”fid”:[3,id1,id2],”heating”:”62”,”cooling”:”82”}

**For cooler system:**

{“dev\_id”:”grp\_id”:”tsk”:”hold”,”grp\_type”:”cooler”,“comid”:[3,id1,id2,id3],“cirid”:[3,id1,id2,id3],“fanid”:[3,id1,id2,id3],”temp”:”62”}

1. **Remove the device from the group or remove the group.**

**Message**: {"dev\_id":"g1/dev-1","tsk":"rmv"}

**NOTE: Here in dev\_id message is “g1” if user want to remove the group, and message is “dev-1” for removing only one device from the group.**

1. **Set the dead zone value.**

**Message**:{"dev\_id":"g1”,"tsk":"deadzone",”grptype”:”hvac”,“id”:[3,id-1,id-2,id-3],”HDZ”:”3”,”CDZ”:”2”,”HCDZ”:”5”}

{"dev\_id":"g1”,"tsk":"deadzone",”grptype”:”cooler”,“id”:[3,id-1,id-2,id-3],”CDZ”:”2”}

1. **Set the scheduler value.**

**Message**:{"dev\_id":"g1”,"tsk":"scheduler",”grptype”:”hvac”,“cid”:[3,id1,id2],“hid”:[3,id1,id2],”fid”:[3,id1,id2],”zone\_h”:[“4”,”5”,”6”,”9”],”zone\_m”:[“4”,”5”,”6”,”9”],”ht”:[“24”,”25”,”27”,”24”], ”ct”:[“24”,”25”,”27”,”24”]}

{"dev\_id":"g1”,"tsk":"scheduler",grptype”:”cooler”,“comid”:[3,id1,id2,id3],“cirid”:[3,id1,id2,id3],“fanid”:[3,id1,id2,id3],”zone\_h”:[“4”,”5”,”6”,”9”],”zone\_m”:[“4”,”5”,”6”,”9”],”temp”:[“24”, ”25”,”27”,”24”]}

{"dev\_id":"g1”,"tsk":"scheduler",”grptype”:”lighting”,“id”:[3,id1,id2,id3],”zone\_h”:[“4”,”5”,”6”,”9”],”zone\_m”:[“4”,”5”,”6”,”9”],”stat”:[“1”,”0”,”1”,”1”]}

1. **Set sensor for zone grp.**

**Message**:{“dev\_id”:”g1”,”tsk”:”senset”,”set”:”ABI1J201”}

1. **Give OTA update message.**

**Message**:{“dev\_id”:”ABI1j201”,”tsk”:”OTA-update”}

1. **Subgroup messages.**

**Message**:{“dev\_id”:”G1”,”tsk”:”subgrp”,”type”:”hid/cid/fid/comid/cirid/idfan”,”id”: “length,”ABI1k101”]}

**RESPONSE FROM THE DEVICE**

1. **Response for device information.**

**Message**: {“dev\_mgr”:{“dev\_profile”:”STANDARD”,”dev\_id”:”dev-1”,”swt\_connected”:”1”,”rly\_connected”:”1-(MAX.10A load)”,”sensor”:”TEMPERATURE AND HUMIDITY SENSOR”,”temp\_range”:”-40 to 125 celcious”,”humidity\_range”:”0-100%”}}

1. **Response for pubsubupdate message.**

**Message**: {“dev\_mgr”:{“dev\_id”:”dev-1”,”dev\_tsk”:”pubsubupdate”,”pub”:”sub\_0001”,”sub”:”pub\_0001”}}

1. **Data of sensor and relay status**

**Message**: {"dev\_mgr":{"dev\_id":dev-1,"dev\_tsk":sens\_dt,"temp":26.80,"hum":34.10,"rly\_status":0}}

1. **Response of rualive message.**

**Message**: {"dev\_mgr":{"dev\_id":dev-1,"stat":yes}}