Dashboard keep getting robot info

```
subscribe topic :
  arobot/pose
content:
         "result": {
                   "x": "",
                  "y": "",
                  "theta": "",
                  "ts":"" //timestamp
         "error": ""
subscribe topic:
  arobot/state
content:
         "result": {
                  "battery":
"state": "Idle"
                                                    //Idle/ Paused / Charging /Working/E-Stopped
                  "ts": "" //timestamp
         "error": ""
```

Dashboard query info

```
arobot/report/performance/req
arobot/report/performance
#request: arobot/report/performance/req
   "cmd_id": "", //unique required, timestamp or uuid
   "start_time": "2021-07-19T07:00:00+0000", //query start time, iso format 8601, ignored if empty
   "end_time": "", //query end time, iso format 8601, ignored if empty
#response: arobot/report/performance
  "cmd_id": "",
  "result":
         "start_time": "2021-07-19T07:58:30+0000", //iso format 8601
         "end_time": "2021-07-19T09:58:30+0000",
         "coverage": 0.80 //80%
          "start_time": "2021-07-20T07:58:30+0000",
         "end_time": "2021-07-20T09:58:30+0000",
         "coverage": 0.95
    ],
  "error": ""
```

Dashboard set cmd

```
<mark>arobot/cmd/req</mark>
arobot/cmd
```

```
#request: arobot/cmd/req
{
    "cmd_id": "", //unique required
    "act": "do", //do/pause/resume/cancel
    "work_type": "station", //station/room/task, if "act" is "do", "work_type" must have value
    "target": "", //id or name
}

#response: arobot/cmd
{
    "cmd_id": "", //request.cmd_id
    "result": "ok", // empty string if error
    "error": "", //empty string if ok
}
```

Examples:

Subscribe to "arobot/pose" and "arobot/state" and get robot location and status per second.

Undocking and Clean Specific Area

```
Step 1. Publish to: arobot/cmd/req

{
    "cmd_id": "a unique id, you can generate one by python unid module", //unique required
    "act": "do", //do/pause/resume/cancel
    "work_type": "room"
    "target": "a cleaning id, which we will provide", //id or name
}

Step 2. wait for response
#response: arobot/cmd

{
    "cmd_id": "unique id", //request.cmd_id, its value is copied from corresponding request
    "result": "ok", // empty string if error
    "error": "", //empty string if ok
}
```

if result is 'ok', robot will undock automatically and its state will be changed from 'charging' to 'working'.

Pause and Continue

```
Step 1. Publish to : arobot/cmd/req
{
    "cmd_id": "uuid-aaaaaaa", //unique required
    "act": "pause", //do/pause/resume/cancel
    "work_type":""
    "target": "", //leave it empty
}
```

Step 2. wait for response

```
#response: arobot/cmd
   "cmd_id": "uuid-aaaaaa", //request.cmd_id, its value is copied from corresponding request
   "result": "ok", // empty string if error
   "error": "",
                //empty string if ok
if result is ok, robot's state will changed from 'working' to 'paused'
Step 3. Publish to: arobot/cmd/req
   "cmd_id": "uuid-bbbbbb", //unique required
                       //do/pause/resume/cancel
   "act": "resume",
   "work_type":""
   "target": "",
                      //leave it empty
Step 4. wait for response
#response: arobot/cmd
   "cmd_id": "uuid-bbbbbb", //request.cmd_id, its value is copied from corresponding request
   "result": "ok", // empty string if error
   "error": "",
                 //empty string if ok
if result is ok, robot's state will changed from 'paused' to 'working'
Pause and Docking
1. Publish to: arobot/cmd/req
   "cmd_id": "uuid-ccccc", //unique required
   "act": "cancel",
                       //do/pause/resume/cancel
   "work_type":""
   "target": "",
                     //leave it empty
2. wait for response
#response: arobot/cmd
   "cmd_id": "uuid-ccccc", //request.cmd_id, its value is copied from corresponding request
   "result": "ok", // empty string if error
   "error": "",
                //empty string if ok
if result is ok, robot's state will changed from 'working' to 'Idle'
3. Publish to: arobot/cmd/req
   "cmd_id": "uuid-dddd", //unique required
   "act": "do",
                  //do/pause/resume/cancel
   "work_type": "station",
   "target": "docking_station_id, we will provide this",
4. wait for response
#response: arobot/cmd
```

```
"cmd_id": "uuid-dddd", //request.cmd_id, its value is copied from corresponding request "result": "ok", // empty string if error "error": "", //empty string if ok
```

if result is ok, robot's state will changed from 'Idle' to 'working'. After robot docking to charge station, the state will change to 'charging'