105 - EMS Panel Controller API

Brief

API for connecting EMS Panel with web services.

API

1. Register Panel Controller
   a. Request:
      i. **192.168.128.69/emma/register18fe349936be**
      ii. Notes:
         1. *192.168.128.69* is IP address of web server to use
         2. *18fe349936be* is WiFi MAC address of Panel Controller
   b. Response:
      i. **[{"getCmdURL":"(/emma/getCommand?apiKey=)","getCmdKey":"(ACM8XW24UDVY1GTV)","cmdExecURL":"(/emma/cmdExecution?apiKey=)","cmdExecKey":"(ACM8XW24UDVY1GTL)","sendDataURL":"(/emma/sendData?apiKey=)","sendDataKey":"(99N5T6AH3NY4UKNA)"}]**
      ii. Notes:
         1. Format in JSON
         2. There is no specific rules in generating the URLs and/or Keys

2. Verify Registration
   a. Request:
      i. **192.168.128.69/emma/verifyACM8XW24UDVY1GTV**
      ii. Notes:
         1. *ACM8XW24UDVY1GTV is getCmdKey*
   b. Response:
      i. Success: **[{"status":"registered"}]**
      ii. Failed: **[{"status":"failed"}]**
      iii. Notes:
         1. Format in JSON

3. Get Command
   a. Request:
      i. **192.168.128.69/emma/getCommand?apiKey=ACM8XW24UDVY1GTV**
   b. Response:
      i. **[{"id":"234","type":0,"address":"00262903424E","cmd":1},{"id":"345","type":0,"address":"00262903424F","cmd":20},{"id":"234","type":1,"address":"1","cmd":1}]**
      ii. Notes:
         1. *id* is command ID
         2. *type*
            a. *type* = 0 is for device which has MAC address (e.g. IR Remote, RF Switch)
            b. *type* = 1 is for switch on Panel Controller
         3. *address*
            a. The address is MAC if *type* = 0
            b. The address is switch channel (0-15) if *type* = 1
         4. *cmd*
            a. 0 is turn OFF
            b. 1 is turn ON
            c. 18 - 30 are specific for Air Conditioner (it represents temperature in Celcius)

4. Send Execution Status
   a. Request:
      i. Success: **192.168.128.69/emma/cmdExecution?apiKey=ACM8XW24UDVY1GTL&id="234"&status="success"**
      ii. Failed: **192.168.128.69/emma/cmdExecution?apiKey=ACM8XW24UDVY1GTL&id="234"&status="failed"**
      iii. Notes:
         1. *id* is command ID
   b. Response:
      i. Check if server return 200 OK

5. Send Data
   a. Request:
      i. **192.168.128.69/emma/sendData?apiKey=99N5T6AH3NY4UKNA&energy=123.45**
   b. Response:
      i. Check if server return 200 OK

6. Send Device (IR Remote, RF Switch) List - ***Not yet***
    a. Request:
    b. Response: