OpenGarage Firmware 1.0.4 API Document

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1. Overview

This document describes OpenGarage (OG) Firmware 1.0.4 API.

- In the following, when device key is required, it is referred to as **dkey=xxx**. The default device key at factory reset settings is opendoor.
- The device IP address is referred to as **devip**
- For most commands, parameters are optional and the order of parameters does not matter.
- Return values are all formatted in JSON, for example: {"result":1}
- Return error code:
 - 1 Success
 - Unauthorized (e.g. missing device key or device key is incorrect)
 - 3 Mismatch (e.g. new device key and confirmation key do not match)
 - 16 Data Missing (e.g. missing required parameters)
 - 17 Out of Range (e.g. value exceeds the acceptable range)
 - 18 Data Format Error (e.g. provided data does not match required format)
 - 32 Page Not Found (e.g. page not found or requested file missing)
 - 48 Not Permitted (e.g. cannot operate on the requested station)
 - 64 Upload failed (e.g. OTA firmware update failed)

2. Get Controller Variables: http://devip/jc

Returned JSON variables:

- dist: distance sensor value (unit: cm)
- door: door status (binary, 1 means open, 0 means closed)
- rcnt: read count (increments every time distance sensor is read)
- fwv: firmware version
- name: device namemac: MAC addresscid: WiFi chip ID

3. Change Controller Variables:

http://devip/cc?dkey=xxx&click=1&reboot=1

Parameters:

- dkey: device key (factory default device key is opendoor)
- click: trigger relay click (the timing is set by the **cdt** option)
- reboot: reboot device

Examples:

- http://devip/cc?dkey=xxx&click=1 trigger relay click
- http://devip/cc?dkey=xxx&reboot=1 reboot device

4. Get Options: http://devip/jo

Returned JSON variables: (factory default values indicated in bold font)

- fwv: firmware version (read-only)
- acc: access mode (<u>0: direct IP only</u>; 1: direct + cloud; 2: cloud only)
- mnt: mounting type (<u>0: ceiling mount</u>; 1: side mount)
- dth: distance threshold (unit: cm, default <u>50</u>)
- riv: read interval (unit: second, default 3)
- alm: alarm (0: no alarm; 1: 5-second alarm; 2: 10-second alarm)
- htp: http port (default <u>80</u>)
- cdt: click delay time (unit: ms, default 1000)
- auth: cloud authorization token
- name: device name (default "My OpenGarage")

5. Change Options:

http://devip/co?dkey=xxx&nkey=xxx&ckey=xxx&opname=opvalue...

Options:

- For the list of option names (opnames), refer to Section 4 above.
- Some option are cannot be modified through the /co command: including fwv, dkey. These are either read-only options, or should be set in a different way.
- To change device key, use the nkey and ckey pairs (new key, and confirm key).

Examples:

| • | <pre>devip/cc?dkey=xxx&nkey=abc&ckey=abc</pre> | set device key to 'abc' |
|---|--|---|
| • | <pre>devip/cc?dkey=xxx&dth=75</pre> | set distance threshold to 75cm |
| • | <pre>devip/cc?dkey=xxx&cdt=500</pre> | set click delay time to 500ms |
| • | <pre>devip/cc?dkey=xxx&auth=0123456789abcdef</pre> | set cloud authorization token |
| • | <pre>devip/cc?dkey=xxx&htp=8080&riv=5</pre> | set http port to 8080 and read interval |
| | | to 5 seconds |

6. Get Log Data: http://devip/jl

Returned JSON variables:

- name: device name
- time: device time (UTC epoch time)
- logs: log data an array of log entries, each entry in the form of

[time_stamp, door_status, distance_value]