

# HTTP Server functionality

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## Overview

The controller runs HTTPS server on 16000 port. The server uses certificates from cloud.access\_keys\_controller\_sync request.

## Requests

### /v1/request

**Description:** provide way for making any WebSocket call via HTTPS request

**Type:** POST

**Headers:**

Key	Value	Description
Authorization	base64 id of user and access token	User id and access token in basic scheme according to standard( <a href="https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Authorization">https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Authorization</a> ). This header is more priority as user and token.
user	Id of user	UUID of user (the same as user in hub.offline.login.ui request)
token	Access token	Access token from cloud (the same as token in hub.offline.login.ui request)

**Content:** application/json

**Data:** Any WebSocket call as it requested via local WebSocket server

**Errors:**

Code	Case Description
400	If request doesn't have data or it's not valid JSON format

401	If user or token header missed or it has not correct values
408	If requests runs more than 1 minute
429	If controller has more then 100 "opened" requests now
500	Any WebSocket formatted error on request

/v1/method/<name of command with '/' separator instead of '.'>#<version>

**Description:** making a request but encode all requests in URL.

- version of WSS request should be taken from the link in the "anchor" part. "\_" should be replaced on ".". If the anchor tag is missed then 1.0 version should be used by default.
- id of request should be generated by HTTPS server for each request
- The name of the command should be part of the link after the 3rd component, all '.' chars should be replaced on '/'.
- parameters of request should be passed as HTTP parameter with specific conversions rules

**Parameters conversions rules:**

HTTP parameter format	WSS Request parameter format
<parameter>=<value>	<pre>{   "params": {     "&lt;parameter&gt;": "&lt;value&gt;"   } }</pre>
<parameter>_bool=<value>	<pre>{   "params": {     "&lt;parameter&gt;": &lt;value&gt;   } }</pre>

<parameter>_int=<value>	<pre> {   "params": {     "&lt;parameter&gt;": &lt;value&gt;   } } </pre>
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**Type:** GET

**Headers:**

Key	Value	Description
Authorization	base64 id of user and access token	User id and access token in basic scheme according to standard( <a href="https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Authorization">https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Authorization</a> ). This header is more priority as user and token.
user	Id of user	UUID of user( the same as user in hub.offline.login.ui request )
token	Access token	Access token from cloud( the same as token in hub.offline.login.ui request )

**Data:** No

**Examples:**

<ip>/v1/method/hub/info/get

<ip>/v1/method/hub/item/value/set?\_id=09234njnj234&value=cooling#1\_2

**Errors:**

Code	Case Description
400	If request doesn't have data or it's not valid JSON format
401	If user or token header missed or it has not correct values
408	If requests runs more than 1 minute

429	If controller has more then 100 "opened" requests now
500	Any WebSocket formatted error on request

## /v1/broadcasts

**Description:** initialized "keep alive" connection for receiving WebSocket broadcasts to client. Supports only one-way requests.

**Type:** GET

**Headers:**

Key	Value	Description
Authorization	base64 id of user and access token	User id and access token in basic scheme according to standard( <a href="https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Authorization">https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Authorization</a> ). This header is more priority as user and token.
user	Id of user	UUID of user( the same as user in hub.offline.login.ui request )
token	Access token	Access token from cloud( the same as token in hub.offline.login.ui request )

**Data:** No

**Errors:**

Code	Case Description
401	If user or token header missed or it has not correct values
429	If controller has more then 100 "opened" requests now