



# V-BOX HTTP API Manual

Website: <http://www.we-con.com.cn/en>

Technical Support: [support@we-con.com.cn](mailto:support@we-con.com.cn)

Skype: fcwkkj

Phone: 86-591-87868869

QQ: 1043098682

Technical forum: <http://wecon.freeforums.net/>



## Contents

1	General.....	3
1.1	Interface parameter description .....	3
1.2	Example key and value .....	4
2	Basic API.....	5
2.1	Login operation.....	5
2.1.1	Parameters .....	5
2.1.2	Operating procedures .....	5
2.1.3	Result.....	6
3	Service data APIs.....	8
3.1	V-Box list.....	8
3.1.1	Parameters .....	8
3.1.2	Operating procedures .....	8
3.1.3	Result.....	9
3.2	Real-time group list .....	11
3.2.1	Parameters .....	11
3.2.2	Operating procedures .....	11
3.2.3	Result.....	12
3.3	Real-time tags configuration list.....	13
3.3.1	Parameters .....	13
3.3.2	Operating procedures .....	14
3.3.3	Result.....	15
3.4	Tags data list .....	17
3.4.1	Parameters .....	17
3.4.2	Operating procedures .....	18
3.4.3	Result.....	19
3.5	Modify tag data .....	20
3.5.1	Parameters .....	20
3.5.2	Operating procedures .....	21
3.5.3	Result.....	22
3.6	Historical tags name list.....	22
3.6.1	Parameters .....	22
3.6.2	Operating procedures .....	23
3.6.3	Result.....	24
3.7	Historical tag data list .....	25
3.7.1	Parameters .....	25
3.7.2	Operating procedures .....	25

---

3.7.3	Result.....	27
3.8	Alarm tags data list .....	28
3.8.1	Parameters .....	28
3.8.2	Operating procedures .....	29
3.8.3	Result.....	31
4	Appendix .....	33
4.1	Data type .....	33

# 1 General

This documents introduces WECON V-BOX HTTP API. And this document also shows some examples. All example is tested from postman application.

**Server address:** <http://api.v-box.net/box-data/api/{acturl}>

**Transport protocol:** HTTP protocol

## 1.1 Interface parameter description

### Global parameters

The following acturls need to have global parameters (The global parameter client is put into the JSON format and placed in the common parameters of the Headers)

Parameters	Description
sid	sessionId session ID (Obtained after login, and is used for all acturls after login)
comid	Company ID (Obtained from WECON, and is used for all acturls)
compvtkey	Company private key (Obtained from WECON, and is used for all acturls)
ts	Timestamp (UTC time: 1970-1-1 00:00:00 to the current client time in seconds)
sign	<p>How to get sign</p> <p><b>Step 1:</b> Format the request parameter as <i>key=value</i> (Including parameters of acturl and parameters parsed by commons of Headers). Such as <i>k1=v1, k2=v2, k3=v3</i>;</p> <p><b>Step 2:</b> The "key=value" formatted in the first step is sorted in ascending order of the first letter of the key name, and then joined together. Such as <i>k1=v1&amp;k2=v2&amp;k3=v3</i> (Null value, no need to splicing);</p> <p><b>Step 3:</b> Add <i>screctkey</i>, at the end of step 2. Such as <i>&amp;key=f1cd9351930d4e589922edbcf3b09a7c</i></p> <p>The MD5 value of step 3 string is sign</p> <p><b>Note:</b> The value of each key is calculated without the actual value of urlencode</p>

### The returned result represented by Json and case sensitive:

1) Abnormal

```
{"code" : 403, "msg" : "SessionID (user session ID) invalid", "reqId": "1502074141465"}
```

2) Normal

```
{"code" : 200 , "result": {}, "msg" : "ok", "reqId":"1502074141465"}
```

### State code description

Codes	Description
200	Success
403	SessionID (User session ID) invalid
400	Illegal parameter value
503	Unknown server error

## 1.2 Example key and value

- 1) **comid**=2
- 2) **comkey**=589625dce895454dbff9782c299db156
- 3) **screctkey**=f1cd9351930d4e589922edbcf3b09a7c
- 4) **ts**=1573897380

## 2 Basic API

### 2.1 Login operation

#### 2.1.1 Parameters

<b>Acturl</b>	we-data/login	
<b>Function</b>	Login with username, email, phone number	
<b>Parameters</b>	<b>Items</b>	<b>Description</b>
	alias	Username, email, phone number
	password	Password (Encrypted with md5)
<b>Return value</b>	<b>Items</b>	<b>Description</b>
	utype	User Type: 1-Manage Account, 2-Viewer Account
	sid	User session ID

#### 2.1.2 Operating procedures

**Step 1:** Set http: <http://api.v-box.net/box-data/api/we-data/login>

POST	▼	http://api.v-box.net/box-data/api/we-data/login
------	---	---

**Step 2:** Set parameters on Params

alias: weconuser

password: 599a3c736c04e196c58a29f43778f7ea(Wecon159)

POST <span>▼</span> http://api.v-box.net/box-data/api/we-data/login?alias=weconuser&password=599a3c736c04e196c58a29f...			
Params ● Authorization Headers Body Pre-request Script Tests Settings			
Query Params			
	KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/>	alias	weconuser	
<input checked="" type="checkbox"/>	password	599a3c736c04e196c58a29f43778f7ea	
	Key	Value	Description

### Step 3: Get sign

alias=weconuser&comid=2&compvtkey=589625dce895454dbff9782c299db156&password=599a3c736c04e196c58a29f43778f7ea&ts=1573897380&key=f1cd9351930d4e589922edbcf3b09a7c

MD5 value: [997513ff1320862f0cbb9ce19d0bd253](#)

### Step 4: Set common of header

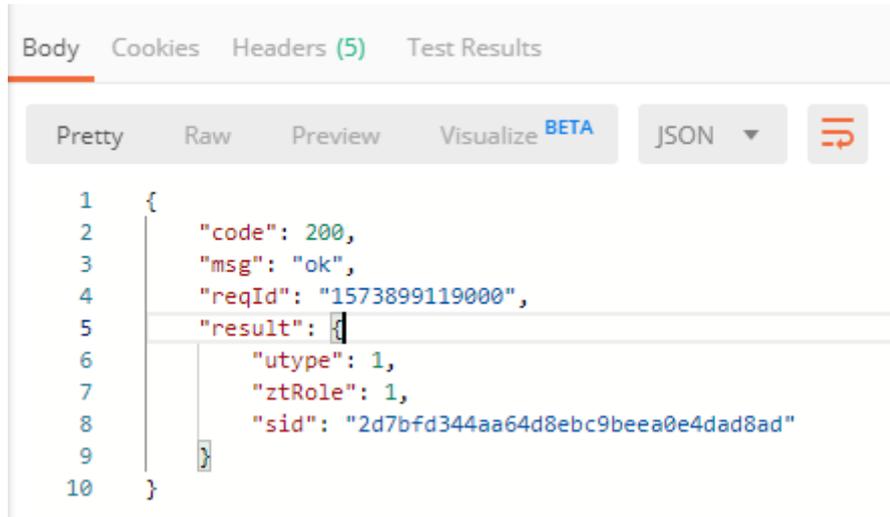
```
{ "comid": "2", "compvtkey": "589625dce895454dbff9782c299db156", "ts": "1573897380", "sign": "997513ff1320862f0cbb9ce19d0bd253" }
```

POST <span>▼</span> http://api.v-box.net/box-data/api/we-data/login?alias=weconuser&password=599a3c736c04e196c58a29f...			
Params ● Authorization Headers (9) Body Pre-request Script Tests Settings			
▼ Headers (1)			
	KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/>	common	{ "comid": "2", "compvtkey": "589625dce895454dbff9782c299db156", "ts": "1573897380", "sign": "997513ff1320862f0cbb9ce19d0bd253" }	
	Key	Value	Description

## 2.1.3 Result

```
{
  "code": 200,
  "msg": "ok",
  "reqId": "1573899119000",
  "result": {
    "utype": 1,
    "ztRole": 1,
  }
}
```

```
"sid": "2d7bfd344aa64d8ebc9beea0e4dad8ad"
}
}
```



## 3 Service data APIs

### 3.1 V-Box list

#### 3.1.1 Parameters

<b>acturl</b>	we-data/boxs				
<b>Functions</b>	Get a list of VBox (VBox list only show in management account)				
<b>Parameters</b>	None				
<b>Return value</b>	<b>Field name</b>	<b>Description</b>			
	list	Data list			
		groupName	Group name		
		boxList	VBox list		
			boxId	VBox ID	
			boxName	VBox name	
			map	Latitude and longitude	
			state	status	
			isAlarm	Alarm or not	
			machineCode	Machine code	
devModel			Machine model		
remark	Note				

#### 3.1.2 Operating procedures

**Step 1:** Set http: <http://api.v-box.net/box-data/api/we-data/boxs>

POST	<a href="http://api.v-box.net/box-data/api/we-data/boxs">http://api.v-box.net/box-data/api/we-data/boxs</a>
------	---

**Step 2:** Set parameters on Params

No parameters for this acturl, so no need to set.

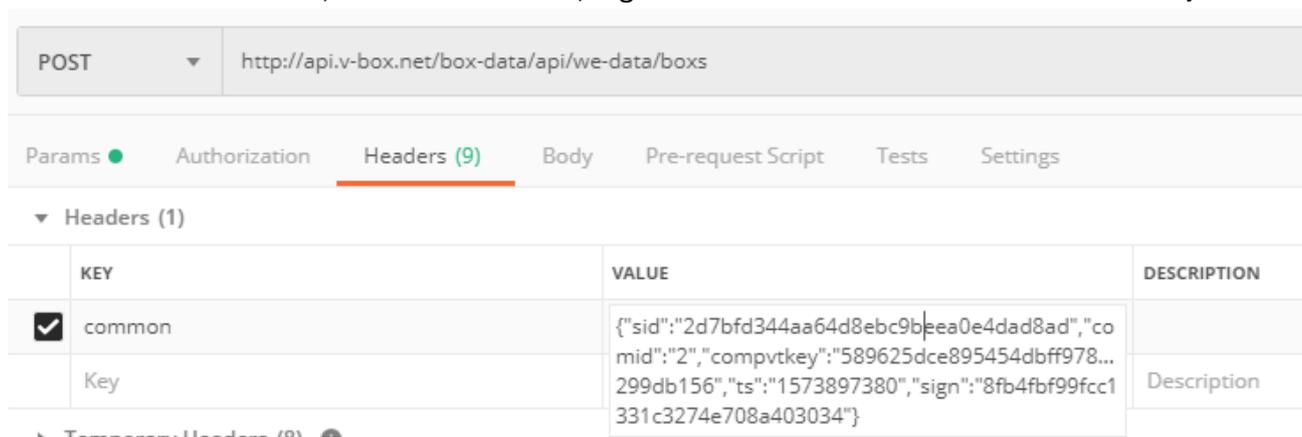
**Step 3:** Get sign

```
comid=2&compvtkey=589625dce895454dbff9782c299db156&sid=2d7bfd344aa64d8ebc9beea0e4dad8ad&ts=1573897380&key=f1cd9351930d4e589922edbcf3b09a7c
```

MD5 value: [8fb4fbf99fcc1331c3274e708a403034](#)

#### Step 4: Set common of header

```
{"sid":"2d7bfd344aa64d8ebc9beea0e4dad8ad","comid":"2","compvtkey":"589625dce895454dbff9782c299db156","ts":"1573897380","sign":"8fb4fbf99fcc1331c3274e708a403034"}
```



The screenshot shows a REST client interface with the following details:

- Method: POST
- URL: http://api.v-box.net/box-data/api/we-data/boxes
- Active tab: Headers (9)
- Header list:
 

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> common	{"sid":"2d7bfd344aa64d8ebc9beea0e4dad8ad","comid":"2","compvtkey":"589625dce895454dbff9782c299db156","ts":"1573897380","sign":"8fb4fbf99fcc1331c3274e708a403034"}	Description

### 3.1.3 Result

```
{
  "code": 200,
  "msg": "ok",
  "reqId": "1573900361203",
  "result": {
    "list": [
      {
        "groupName": "默认组",
        "boxList": [
          {
            "machineCode": "V01001171116005027a279eb001",
            "devModel": "V-BOX S-00",
            "isAlarm": 0,
            "boxName": "Treatment Systems",
            "remark": "",
            "state": "1",
            "map": "78.178613,9.177124",
            "boxId": "913"
          },
          .....
        ]
      }
    ]
  }
}
```



```

9      "boxList": [
10     {
11       "machineCode": "V01001171116005027a279eb001",
12       "devModel": "V-BOX 5-00",
13       "isAlarm": 0,
14       "boxName": "Treatment Systems",
15       "remark": "",
16       "state": "1",
17       "map": "78.178613,9.177124",
18       "boxId": "913"
19     },
20     {
21       "machineCode": "V01001171116005027a279eb000",
22       "devModel": "V-BOX 5-00",
23       "isAlarm": 0,
24       "boxName": "水处理系统",
25       "remark": "",
26       "state": "1",

```

## 3.2 Real-time group list

### 3.2.1 Parameters

<b>acturl</b>	we-data/realgroups		
<b>Functions</b>	Get V-BOX's tags group list		
<b>Parameters</b>	Parameter	Description	
	boxId	VBoxID ("None" means custom grouping)	
<b>Return value</b>	Field name	Description	
	list	Group list	
		groupId	Group ID
		groupName	Group name

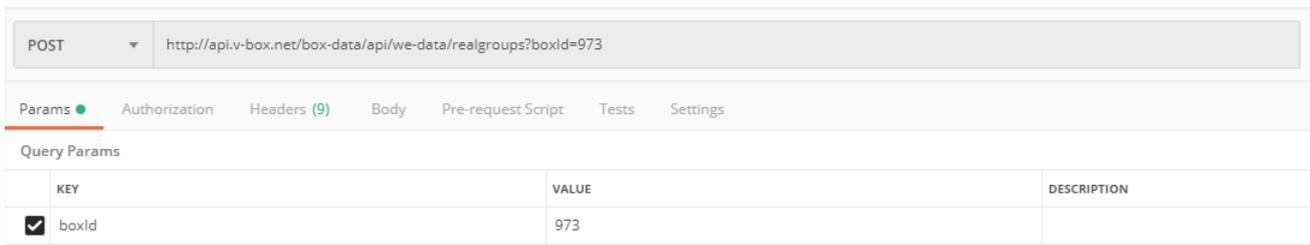
### 3.2.2 Operating procedures

**Step 1:** Set http: <http://api.v-box.net/box-data/api/we-data/realgroups>

POST
▼
http://api.v-box.net/box-data/api/we-data/realgroups

**Step 2:** Set parameters on Params

```
"boxId": "973"
```



KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> boxId	973	

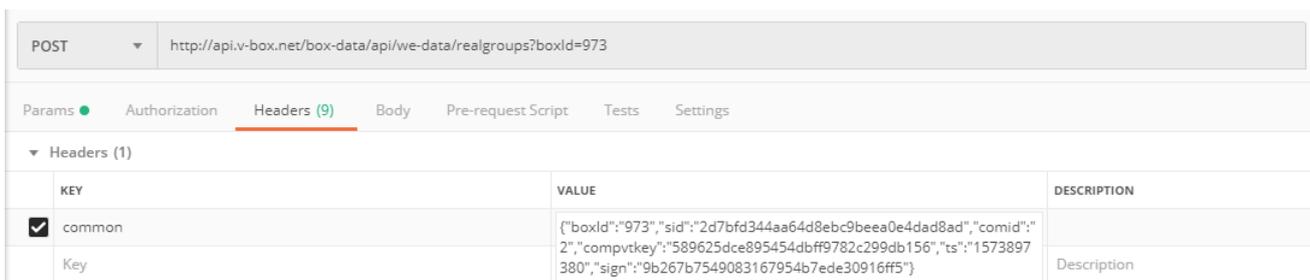
### Step 3: Get sign

```
boxId=973&comid=2&compvtkey=589625dce895454dbff9782c299db156&sid=2d7bfd344aa64d8ebc9beea0e4dad8ad&ts=1573897380&key=f1cd9351930d4e589922edbcf3b09a7c
```

MD5 value: [9b267b7549083167954b7ede30916ff5](#)

### Step 4: Set common of header

```
{"boxId":"973","sid":"2d7bfd344aa64d8ebc9beea0e4dad8ad","comid":"2","compvtkey":"589625dce895454dbff9782c299db156","ts":"1573897380","sign":"9b267b7549083167954b7ede30916ff5"}
```



KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> common	{"boxId":"973","sid":"2d7bfd344aa64d8ebc9beea0e4dad8ad","comid":"2","compvtkey":"589625dce895454dbff9782c299db156","ts":"1573897380","sign":"9b267b7549083167954b7ede30916ff5"}	Description

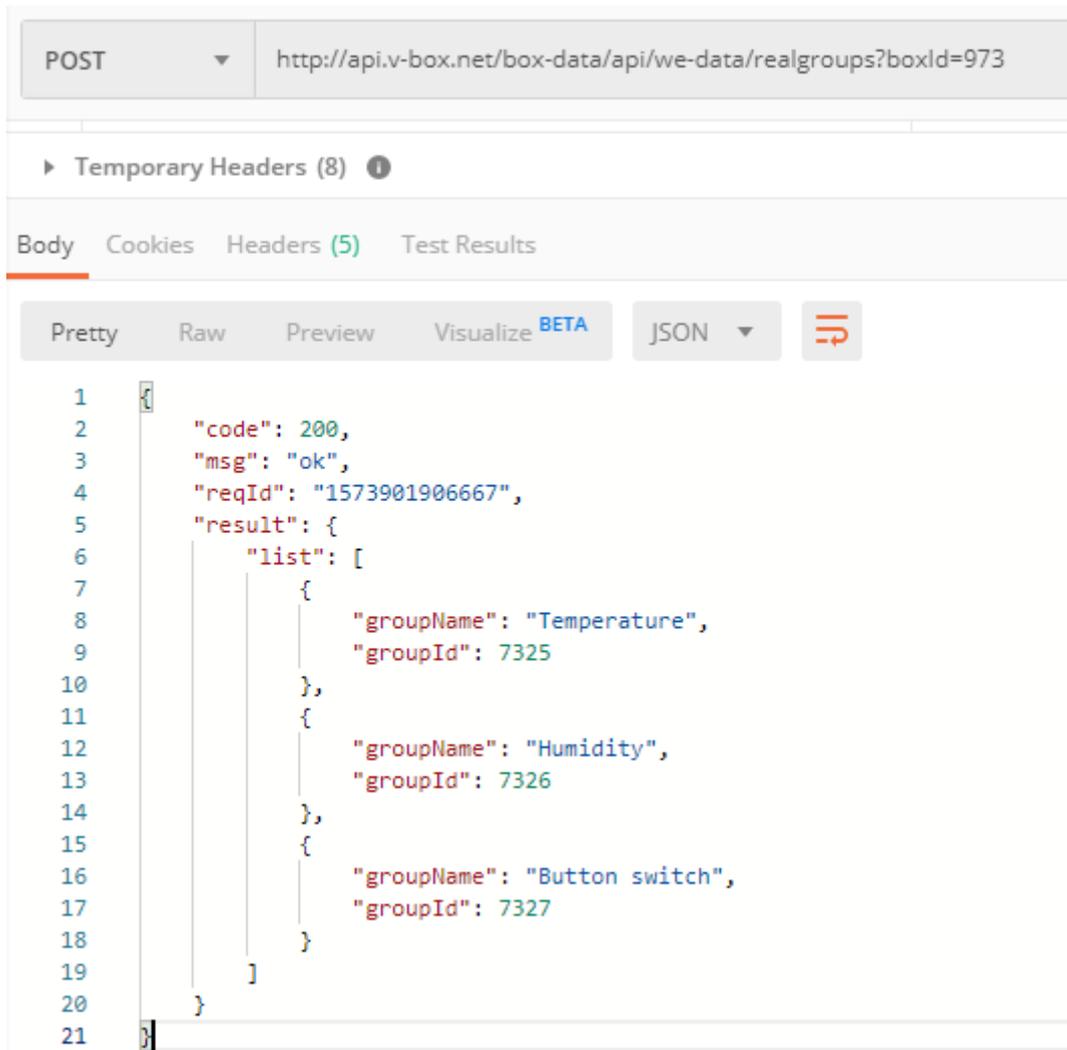
## 3.2.3 Result

```
{
  "code": 200,
  "msg": "ok",
  "reqId": "1573901906667",
  "result": {
    "list": [
      {
        "groupName": "Temperature",
        "groupId": 7325
      },
      {
        "groupName": "Humidity",
        "groupId": 7326
      }
    ]
  }
}
```

```

    },
    {
      "groupName": "Button switch",
      "groupId": 7327
    }
  ]
}
}

```



The screenshot shows a web browser's developer tools interface. At the top, a POST request is shown to the URL `http://api.v-box.net/box-data/api/we-data/realgroups?boxId=973`. Below this, the 'Temporary Headers (8)' section is expanded. The 'Body' tab is selected, showing the JSON response in a 'Pretty' view. The response includes a status code of 200, a message of 'ok', a request ID, and a list of three real-time tags.

```

1  {
2    "code": 200,
3    "msg": "ok",
4    "reqId": "1573901906667",
5    "result": {
6      "list": [
7        {
8          "groupName": "Temperature",
9          "groupId": 7325
10       },
11       {
12         "groupName": "Humidity",
13         "groupId": 7326
14       },
15       {
16         "groupName": "Button switch",
17         "groupId": 7327
18       }
19     ]
20   }
21 }

```

### 3.3 Real-time tags configuration list

#### 3.3.1 Parameters

acturl	we-data/realcfigs
--------	-------------------

<b>Functions</b>	Get the tags configuration information in the specified group in V-BOX.		
	Parameter	Description	
<b>Parameters</b>	boxId	VBoxID("None" means custom tags grouping)	
	groupId	Group ID (Required)	
	pageSize	Number of each page, 10 by default	
	pageIndex	Number of current page, start from 1	
<b>Return value</b>	Field name	Description	
	cfgList	monitorId	Tags ID
		monitorName	Tags name
		updTime	Last update time
		dataId	type of data 100: 16-bit binary 101: 16-digit octal Refer to Appendix 1
		addr	Address
		addrType	0: bit address 1: byte address 2: word address 3: double word
		digitCount	Integer digits, decimal places
		digitBinary	Data type and integer digits, decimal places
		dataLimit	Data range
		rid	Address
	roleType	Permission: 1-read only, 2-write only, 3-read-write	
	totalPage	Total pages	
	totalRecord	Total record number	
currentPage	Current page number		

### 3.3.2 Operating procedures

**Step 1:** Set http: <http://api.v-box.net/box-data/api/we-data/realcfgs>

POST ▼ http://api.v-box.net/box-data/api/we-data/realcfgs

**Step 2:** Set parameters on Params

"boxId":"973"

```
"groupId":"7325"
```

```
"pageSize":"5"
```

```
"pageIndex":"2"
```

POST ▼ http://api.v-box.net/box-data/api/we-data/realcfgs?boxId=973&groupId=7325&pageSize=5&pageIndex=2

Params ● Authorization Headers Body Pre-request Script Tests Settings

Query Params

	KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/>	boxId	973	
<input checked="" type="checkbox"/>	groupId	7325	
<input checked="" type="checkbox"/>	pageSize	5	
<input checked="" type="checkbox"/>	pageIndex	2	

### Step 3: Get sign

```
boxId=973&comid=2&compvtkey=589625dce895454dbff9782c299db156&groupId=7325&pageIndex=2&pageSize=5&sid=2d7bfd344aa64d8ebc9beea0e4dad8ad&ts=1573897380&key=f1cd9351930d4e589922edbcf3b09a7c
```

MD5 sign: [0769228e66c945eed5431c41a96949f2](#)

### Step 4: Set common of header

```
{"boxId":"973","groupId":"7325","pageSize":"5","pageIndex":"2","sid":"2d7bfd344aa64d8ebc9beea0e4dad8ad","comid":"2","compvtkey":"589625dce895454dbff9782c299db156","ts":"1573897380","sign":"0769228e66c945eed5431c41a96949f2"}
```

POST ▼ http://api.v-box.net/box-data/api/we-data/realcfgs?boxId=973&groupId=7325&pageSize=5&pageIndex=2

Params ● Authorization Headers (9) Body Pre-request Script Tests Settings

▼ Headers (1)

	KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/>	common	{ "boxId": "973", "groupId": "7325", "pageSize": "5", "pageIndex": "2", "sid": "2d7bfd344aa64d8ebc9beea0e4dad8ad", "comid": "2", "compvtkey": "589625dce895454dbff9782c299db156", "ts": "1573897380", "sign": "0769228e66c945eed5431c41a96949f2" }	
	Key		Description
▶ Temporary Headers (8) ⓘ			

### 3.3.3 Result

```
{
  "code": 200,
  "msg": "ok",
  "reqId": "1573903822419",
  "result": {
    "cfgList": [
      {
        "monitorId": 91545,
        "dataId": 105,
        "monitorName": "Temp_9",
        "updTime": 1571965761000,
        "dataLimit": "0 7999",
        "digitBinary": "十进制",
        "addr": "9",
        "rid": "D",
        "roleType": 3,
        "digitCount": "5,0",
        "addrType": 2
      },
      .....
      {
        "monitorId": 91541,
        "dataId": 105,
        "monitorName": "Temp_5",
        "updTime": 1571965761000,
        "dataLimit": "0 7999",
        "digitBinary": "十进制",
        "addr": "5",
        "rid": "D",
        "roleType": 3,
        "digitCount": "5,0",
        "addrType": 2
      }
    ],
    "totalPage": 3,
    "totalRecord": 15,
    "currentPage": 2
  }
}
```

```

POST http://api.v-box.net/box-data/api/we-data/realcfgs?boxId=973&groupId=7325&pageSize=5&pageIndex=2

Pretty Raw Preview Visualize BETA JSON
48     "dataId": 105,
49     "monitorName": "Temp_6",
50     "updTime": 1571965761000,
51     "dataLimit": "0 7999",
52     "digitBinary": "十进制",
53     "addr": "6",
54     "rid": "D",
55     "roleType": 3,
56     "digitCount": "5,0",
57     "addrType": 2
58   },
59   {
60     "monitorId": 91541,
61     "dataId": 105,
62     "monitorName": "Temp_5",
63     "updTime": 1571965761000,
64     "dataLimit": "0 7999",
65     "digitBinary": "十进制",
66     "addr": "5",
67     "rid": "D",
68     "roleType": 3,
69     "digitCount": "5,0",
70     "addrType": 2
71   }
72 ],
73 "totalPage": 3,
74 "totalRecord": 15,
75 "currentPage": 2
76 }
77 }

```

### 3.4 Tags data list

#### 3.4.1 Parameters

<b>acturl</b>	we-data/realdata	
<b>Functions</b>	Get the tags data in the specified group in V-BOX.	
<b>Parameters</b>	<b>Parameter</b>	<b>Description</b>
	boxId	VBoxID("None" means custom tag grouping)
	groupId	Group ID (Required)
	pageSize	Number of each page, 10 by default
	pageIndex	Number of current page, start from 1
<b>Return value</b>	<b>Field name</b>	<b>Description</b>

	List	Real-time data list	
		com	Communication port ID
		monitorId	Tag ID
		monitorName	Tag name
		state	status
		value	Value
		groupId	Group ID
	totalPage	Total pages	
	totalRecord	Total record	
	currentPage	current page	

### 3.4.2 Operating procedures

**Step 1:** Set http: <http://api.v-box.net/box-data/api/we-data/realdata>

POST ▼ http://api.v-box.net/box-data/api/we-data/realdata

**Step 2:** Set parameters on Params

"boxId":"973"

"groupId":"7325"

"pageSize":"5"

"pageIndex":"2"

POST ▼ http://api.v-box.net/box-data/api/we-data/realdata?boxId=973&groupId=7325&pageSize=5&pageIndex=2

Params ● Authorization Headers Body Pre-request Script Tests Settings			
Query Params			
	KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/>	boxId	973	
<input checked="" type="checkbox"/>	groupId	7325	
<input checked="" type="checkbox"/>	pageSize	5	
<input checked="" type="checkbox"/>	pageIndex	<input type="text" value="2"/>	

**Step 3:** Get sign

boxId=973&comid=2&compvtkey=589625dce895454dbff9782c299db156&groupId=7325&pageIndex=2&pageSize=5&sid=2d7bfd344aa64d8ebc9beea0e4dad8ad&ts=1573897380&key=f1cd9

351930d4e589922edbcf3b09a7c

MD5 sign: [0769228e66c945eed5431c41a96949f2](#)

#### Step 4: Set common of header

```
{"boxId":"973","groupId":"7325","pageSize":"5","pageIndex":"2","sid":"2d7bfd344aa64d8ebc9beea0e4dad8ad","comid":"2","comptvkey":"589625dce895454dbff9782c299db156","ts":"1573897380","sign":"0769228e66c945eed5431c41a96949f2"}
```

### 3.4.3 Result

```
{
  "code": 200,
  "msg": "ok",
  "reqId": "1573905679365",
  "result": {
    "totalPage": 3,
    "list": [
      {
        "com": 2939,
        "monitorId": 91545,
        "monitorName": "Temp_9",
        "groupId": 0,
        "state": "1",
        "value": "90"
      },
      .....
      {
        "com": 2939,
        "monitorId": 91541,
        "monitorName": "Temp_5",
        "groupId": 0,
        "state": "1",
        "value": "87"
      }
    ],
    "totalRecord": 15,
    "currentPage": 2
  }
}
```

```

POST http://api.v-box.net/box-data/api/we-data/realdata?boxId=973&groupId=7325&pageSize=5&pageIndex=2

Pretty Raw Preview Visualize BETA JSON
23     },
24     {
25         "com": 2939,
26         "monitorId": 91543,
27         "monitorName": "Temp_7",
28         "groupId": 0,
29         "state": "1",
30         "value": "35"
31     },
32     {
33         "com": 2939,
34         "monitorId": 91542,
35         "monitorName": "Temp_6",
36         "groupId": 0,
37         "state": "1",
38         "value": "3"
39     },
40     {
41         "com": 2939,
42         "monitorId": 91541,
43         "monitorName": "Temp_5",
44         "groupId": 0,
45         "state": "1",
46         "value": "87"
47     }
48 ],
49 "totalRecord": 15,
50 "currentPage": 2
51 }
52 }

```

### 3.5 Modify tag data

#### 3.5.1 Parameters

<b>acturl</b>	we-data/updrealdata	
<b>Functions</b>	Modify tag data	
<b>Parameters</b>	<b>Parameter</b>	<b>Description</b>
	monitorId	Tag ID
	value	value
<b>Return value</b>	None	

### 3.5.2 Operating procedures

**Step 1:** Set http: <http://api.v-box.net/box-data/api/we-data/updrealdata>

POST	http://api.v-box.net/box-data/api/we-data/updrealdata
------	---

**Step 2:** Set parameters on Params

"monitorId":"91541"

"value":"60"

POST	http://api.v-box.net/box-data/api/we-data/updrealdata?monitorId=91541&value=60					
Params	Authorization	Headers	Body	Pre-request Script	Tests	Settings
Query Params						
	KEY	VALUE	DESCRIPTION			
<input checked="" type="checkbox"/>	monitorId	91541				
<input checked="" type="checkbox"/>	value	60				

**Step 3:** Get sign

comid=2&compvtkey=589625dce895454dbff9782c299db156&monitorId=91541&sid=2d7bfd344aa64d8ebc9beea0e4dad8ad&ts=1573897380&value=60&key=f1cd9351930d4e589922edbcf3b09a7c

MD5 sign: [4119b1abc9176a187f781bece04a5296](#)

**Step 4:** Set common of header

{"monitorId":"91541","value":"60","sid":"2d7bfd344aa64d8ebc9beea0e4dad8ad","comid":"2","compvtkey":"589625dce895454dbff9782c299db156","ts":"1573897380","sign":"[4119b1abc9176a187f781bece04a5296](#)"}

POST	http://api.v-box.net/box-data/api/we-data/updrealdata?monitorId=91541&value=60					
Params	Authorization	Headers (9)	Body	Pre-request Script	Tests	Settings
▼ Headers (1)						
	KEY	VALUE	DESCRIPTION			
<input checked="" type="checkbox"/>	common	{"monitorId":"91541","value":"60","sid":"2d7bfd344aa64d8ebc9beea0e4dad8ad","comid":"2","compvtkey":"589625dce895454dbff9782c299db156","ts":"1573897380","sign":"4119b1abc9176a187f781bece04a5296"}				
	Key		Description			
▶ Temporary Headers (8) ⓘ						

### 3.5.3 Result

```
{
  "code": 200,
  "msg": "ok",
  "reqId": "1573907138803",
  "result": {}
}
```

POST http://api.v-box.net/box-data/api/we-data/updrealdata?monitorId=91541&value=60

Params Authorization Headers (9) Body Pre-request Script Tests Settings

▼ Headers (1)

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> common	{"monitorId": "91541", "value": "60", "sid": "2d7bfd3..."}	
Key	Value	Description

▶ Temporary Headers (8) ⓘ

Body Cookies Headers (5) Test Results Status: 200 OK Time: 97ms

Pretty Raw Preview Visualize BETA JSON

```
1 {
2   "code": 200,
3   "msg": "ok",
4   "reqId": "1573907138803",
5   "result": {}
6 }
```

## 3.6 Historical tags name list

### 3.6.1 Parameters

acturl	we-data/monitors	
Functions	Get a list of historical tags	
Parameters	Parameter	Description
	boxId	VBoxID (Not required)
Return value	Field name	Description

list	Tag list	
	monitorId	tag ID
	monitorName	tag name

### 3.6.2 Operating procedures

**Step 1:** Set http: <http://api.v-box.net/box-data/api/we-data/monitors>

POST ▼ http://api.v-box.net/box-data/api/we-data/updrealdata

**Step 2:** Set parameters on Params

"boxId": "973"

POST ▼ http://api.v-box.net/box-data/api/we-data/monitors?boxId=973

Params ●
Authorization
Headers
Body
Pre-request Script
Tests
Settings

Query Params

	KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/>	boxId	973	

**Step 3:** Get sign

boxId=973&comid=2&compvtkey=589625dce895454dbff9782c299db156&sid=2d7bfd344aa64d8ebc9beea0e4dad8ad&ts=1573897380&key=f1cd9351930d4e589922edbcf3b09a7c  
 MD5 sign: [9b267b7549083167954b7ede30916ff5](#)

**Step 4:** Set common of header

{"boxId": "973", "sid": "2d7bfd344aa64d8ebc9beea0e4dad8ad", "comid": "2", "compvtkey": "589625dce895454dbff9782c299db156", "ts": "1573897380", "sign": "[9b267b7549083167954b7ede30916ff5](#)"}

POST ▼ http://api.v-box.net/box-data/api/we-data/monitors?boxId=973

Params ●
Authorization
Headers (9)
Body
Pre-request Script
Tests
Settings

▼ Headers (1)

	KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/>	common	{ "boxId": "973", "sid": "2d7bfd344aa64d8ebc9beea0e4dad8ad", "comid": "2", "compvtkey": "589625dce895454dbff9782c299db156", "ts": "1573897380", "sign": " <a href="#">9b267b7549083167954b7ede30916ff5</a> " }	
	Key		Description

▶ Temporary Headers (8) ⓘ

### 3.6.3 Result

```
{
  "code": 200,
  "msg": "ok",
  "reqId": "1573907813693",
  "result": {
    "list": [
      {
        "monitorId": 91576,
        "monitorName": "Hum",
        "groupId": 7328
      },
      {
        "monitorId": 91577,
        "monitorName": "Temp",
        "groupId": 7328
      }
    ]
  }
}
```

POST http://api.v-box.net/box-data/api/we-data/monitors?boxId=973

Pretty Raw Preview Visualize BETA JSON 

```
1  {
2    "code": 200,
3    "msg": "ok",
4    "reqId": "1573907813693",
5    "result": {
6      "list": [
7        {
8          "monitorId": 91576,
9          "monitorName": "Hum",
10         "groupId": 7328
11        },
12        {
13         "monitorId": 91577,
14         "monitorName": "Temp",
15         "groupId": 7328
16        }
17      ]
18    }
19  }
```

## 3.7 Historical tag data list

### 3.7.1 Parameters

<b>acturl</b>	we-data/historydata		
<b>Functions</b>	Get historical data		
<b>Parameters</b>	<b>Parameter</b>	<b>Description</b>	
	monitorId	tag ID, (Required)	
	monitorBeginTime	Monitoring start time, (Not required)	
	monitorEndTime	Monitoring end time, (Not required)	
	pageSize	Number of each page, 10 by default	
	pageIndex	Number of current page, start from 1	
<b>Return value</b>	<b>Field name</b>	<b>Description</b>	
	list	Historical data list	
		monitorName	tag name
		monitorTime	Monitoring time
		value	Value
	totalPage	Total pages	
	totalRecord	Total records	
	currentPage	Current page	

### 3.7.2 Operating procedures

**Step 1:** Set http: <http://api.v-box.net/box-data/api/we-data/historydata>

POST	▼	http://api.v-box.net/box-data/api/we-data/historydata
------	---	---

**Step 2:** Set parameters on Params

```
"monitorId": 91577
"monitorBeginTime": "2019-11-16 10:45:44.000"
"monitorEndTime": "2019-11-16 20:45:44.000"
"pageSize": "10"
"pageIndex": "2"
```

POST ▼ http://api.v-box.net/box-data/api/we-data/historydata?monitorId=91577&monitorBeginTime=2019-11-1...

Params ● Authorization Headers Body Pre-request Script Tests Settings

Query Params

	KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/>	monitorId	91577	
<input checked="" type="checkbox"/>	monitorBeginTime	2019-11-16 10:45:44.000	
<input checked="" type="checkbox"/>	monitorEndTime	2019-11-16 20:45:44.000	
<input checked="" type="checkbox"/>	pageSize	10	
<input checked="" type="checkbox"/>	pageIndex	2	

### Step 3: Get sign

comid=2&compvtkey=589625dce895454dbff9782c299db156&monitorBeginTime=2019-11-16 10:45:44.000&monitorEndTime=2019-11-16 20:45:44.000&monitorId=91577&pageIndex=2&pageSize=10&sid=2d7bfd344aa64d8ebc9beea0e4dad8ad&ts=1573897380&key=f1cd9351930d4e589922edbcf3b09a7c  
 MD5 sign: [feae8ddb4014951cfc2c02de4744bc4](#)

### Step 4: Set common of header

```
{
  "monitorId": "91577",
  "monitorBeginTime": "2019-11-16 10:45:44.000",
  "monitorEndTime": "2019-11-16 20:45:44.000",
  "pageSize": "10",
  "pageIndex": "2",
  "sid": "2d7bfd344aa64d8ebc9beea0e4dad8ad",
  "comid": "2",
  "compvtkey": "589625dce895454dbff9782c299db156",
  "ts": "1573897380",
  "sign": "feae8ddb4014951cfc2c02de4744bc4"
}
```

POST ▼ http://api.v-box.net/box-data/api/we-data/historydata?monitorId=91577&monitorBeginTime=2019-11-1...

Params ● Authorization Headers (9) Body Pre-request Script Tests Settings

▼ Headers (1)

	KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/>	common	{                     "monitorId": "91577",                     "monitorBeginTime": "2019-11-16 10:45:44.000",                     "monitorEndTime": "2019-11-16 20:45:44.000",                     "pageSize": "10",                     "pageIndex": "2",                     "sid": "2d7bfd344aa64d8ebc9beea0e4dad8ad",                     "comid": "2",                     "compvtkey": "589625dce895454dbff9782c299db156",                     "ts": "1573897380",                     "sign": "feae8ddb4014951cfc2c02de4744bc4"                 }	
	Key		Description

▶ Temporary Headers (8) ⓘ

Body Cookies Headers (5) Test Results

Time: 217ms Si

### 3.7.3 Result

```
{
  "code": 200,
  "msg": "ok",
  "reqId": "1573909705772",
  "result": {
    "totalPage": 12,
    "list": [
      {
        "monitorTime": 1573905337000,
        "groupName": "His",
        "monitorTime_show": "2019-11-16 19:55:37.000",
        "monitorName": "Temp",
        "groupId": 7328,
        "value": "914"
      },
      .....
      {
        "monitorTime": 1573902637000,
        "groupName": "His",
        "monitorTime_show": "2019-11-16 19:10:37.000",
        "monitorName": "Temp",
        "groupId": 7328,
        "value": "422"
      }
    ],
    "totalRecord": 120,
    "currentPage": 2
  }
}
```

```

POST http://api.v-box.net/box-data/api/we-data/historydata?monitorId=91577&monitorBeginTime=2019-11-1...

Pretty Raw Preview Visualize BETA JSON
69     "groupId": 7328,
70     "value": "959"
71   },
72   {
73     "monitorTime": 1573902937000,
74     "groupName": "His",
75     "monitorTime_show": "2019-11-16 19:15:37.000",
76     "monitorName": "Temp",
77     "groupId": 7328,
78     "value": "663"
79   },
80   {
81     "monitorTime": 1573902637000,
82     "groupName": "His",
83     "monitorTime_show": "2019-11-16 19:10:37.000",
84     "monitorName": "Temp",
85     "groupId": 7328,
86     "value": "422"
87   }
88 ],
89 "totalRecord": 120,
90 "currentPage": 2
91 }
92 }

```

### 3.8 Alarm tags data list

#### 3.8.1 Parameters

<b>acturl</b>	we-data/alarndata	
	Function	
<b>Parameters</b>	Get alarm data	
	Parameter	Description
	boxId	VBoxID, (Required)
	monitorBeginTime	Monitoring start time, (Not required)
	monitorEndTime	Monitoring end time, (Not required)
	pageSize	Number of each page, 10 by default
	pageIndex	Number of current page, start from 1
	state	Status 1-unconfirmed, 2-confirm
	alarmType	Alarm events: 1-trigger alarm, 0-disarm (Not necessary)
alarmLevel	Alarm level: 1 general alarm,	

Return value		2 serious alarm, 3 particularly serious alarm (Not necessary)		
	Field name	Description		
	List	Alarm data list		
		monitorId	tag ID	
		monitorName	tag name	
		state	status	
		value	Value	
		monitorTime	Monitoring time	
		alarmType	Alarm event	
		alarmLevel	Alarm level	
totalPage	Total pages			
totalRecord	Total records			
currentPage	Current page			

### 3.8.2 Operating procedures

**Step 1:** Set http: <http://api.v-box.net/box-data/api/we-data/alarmdata>

POST	▼	<a href="http://api.v-box.net/box-data/api/we-data/alarmdata">http://api.v-box.net/box-data/api/we-data/alarmdata</a>
------	---	---

**Step 2:** Set parameters on Params

```
"monitorId":"91931"
"monitorBeginTime":"2019-11-16 20:30:44.000"
"monitorEndTime":"2019-11-16 21:30:44.000"
"pageSize":"10"
"pageIndex":"1"
"state":"2"
```

POST ▼ http://api.v-box.net/box-data/api/we-data/alarmdata?monitorId=91931&monitorBeginTime=2019-11-16...

Params ● Authorization Headers Body Pre-request Script Tests Settings

Query Params

	KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/>	monitorId	91931	
<input checked="" type="checkbox"/>	monitorBeginTime	2019-11-16 20:30:44.000	
<input checked="" type="checkbox"/>	monitorEndTime	2019-11-16 21:30:44.000	
<input checked="" type="checkbox"/>	pageSize	10	
<input checked="" type="checkbox"/>	pageIndex	1	
<input checked="" type="checkbox"/>	state	2	

### Step 3: Get sign

comid=2&compvtkey=589625dce895454dbff9782c299db156&monitorBeginTime=2019-11-16 20:30:44.000&monitorEndTime=2019-11-16 21:30:44.000&monitorId=91931&pageIndex=1&pageSize=10&sid=2d7bfd344aa64d8ebc9beea0e4dad8ad&state=2&ts=1573897380&key=f1cd9351930d4e589922edbcf3b09a7c  
 MD5 sign: [4056006bbc71bd80a3c632987626e15b](#)

### Step 4: Set common of header

```
{
  "monitorId": "91931",
  "monitorBeginTime": "2019-11-16 20:30:44.000",
  "monitorEndTime": "2019-11-16 21:30:44.000",
  "pageSize": "10",
  "pageIndex": "1",
  "state": "2",
  "sid": "2d7bfd344aa64d8ebc9beea0e4dad8ad",
  "comid": "2",
  "compvtkey": "589625dce895454dbff9782c299db156",
  "ts": "1573897380",
  "sign": "4056006bbc71bd80a3c632987626e15b"
}
```

POST ▼ http://api.v-box.net/box-data/api/we-data/alarmdata?monitorId=91931&monitorBeginTime=2019-11-16 ...

▼ Headers (1)

	KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/>	common	{                     "monitorId": "91931",                     "monitorBeginTime": "2019-11-16 20:30:44.000",                     "monitorEndTime": "2019-11-16 21:30:44.000",                     "pageSize": "10",                     "pageIndex": "1",                     "state": "2",                     "sid": "2d7bfd344aa64d8ebc9beea0e4dad8ad",                     "comid": "2",                     "compvtkey": "589625dce895454dbff9782c299db156",                     "ts": "1573897380",                     "sign": "4056006bbc71bd80a3c632987626e15b"                 }	Description

► Temporary Headers (8) ⓘ

Body Cookies Headers (5) Test Results

OK Time: 60ms

### 3.8.3 Result

```
{
  "code": 200,
  "msg": "ok",
  "reqId": "1573911745258",
  "result": {
    "totalPage": 1,
    "list": [
      {
        "monitorTime": 1573910934000,
        "alarmType": 0,
        "monitorId": 4437,
        "monitorTime_show": "2019-11-16 21:28:54",
        "monitorName": "Temperature alarm",
        "alarmLevel": 2,
        "state": 2,
        "text": "The temperature is too high",
        "value": "1",
        "alarm_role": 0
      },
      .....
      {
        "monitorTime": 1573910855000,
        "alarmType": 1,
        "monitorId": 4437,
        "monitorTime_show": "2019-11-16 21:27:35",
        "monitorName": "Temperature alarm",
        "alarmLevel": 2,
        "state": 2,
        "text": "The temperature is too high",
        "value": "18",
        "alarm_role": 0
      }
    ],
    "totalRecord": 6,
    "currentPage": 1
  }
}
```

POST

<http://api.v-box.net/box-data/api/we-data/alarmdata?monitorId=91931&monitorBeginTime=2019-11-16 ...>

Pretty

Raw

Preview

 Visualize BETA

JSON



```

61     "monitorName": "Temperature alarm",
62     "alarmLevel": 2,
63     "state": 2,
64     "text": "The temperature is too high",
65     "value": "9",
66     "alarm_role": 0
67   },
68   {
69     "monitorTime": 1573910855000,
70     "alarmType": 1,
71     "monitorId": 4437,
72     "monitorTime_show": "2019-11-16 21:27:35",
73     "monitorName": "Temperature alarm",
74     "alarmLevel": 2,
75     "state": 2,
76     "text": "The temperature is too high",
77     "value": "18",
78     "alarm_role": 0
79   }
80 ],
81 "totalRecord": 6,
82 "currentPage": 1
83 }
84 }
    
```

## 4 Appendix

---

### 4.1 Data type

100: 16-bit binary  
101: 16-bit octal  
102: 16-bit hexadecimal  
103: 16-bit BCD code  
104: 16-bit signed decimal  
105: 16-bit unsigned decimal  
200: 32-bit binary  
201: 32-bit octal  
202: 32-bit hexadecimal  
203: 32-bit BCD  
204: 32-bit signed decimal  
205: 32-bit unsigned decimal  
206: 32-bit floating  
400: 64-bit binary  
401: 64-bit octal  
402: 64-bit hexadecimal  
403: 64-bit BCD  
404: 64-bit signed decimal  
405: 64-bit unsigned decimal  
406: 64-bit floating  
1000: string