V-BOX HTTP API Manual

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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	How to get sign **Step 1:** Format the request parameter as *key=value* (Including parameters of acturl and parameters parsed by commons of Headers). Such as *k1=v1*, *k2=v2*, *k3=v3*; **Step 2:** 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 *k1=v1&k2=v2&k3=v3* (Null value, no need to splicing); **Step 3:** Add *screctkey*, at the end of step 2. Such as *&key=f1cd9351930d4e589922edbcf3b09a7c* The MD5 value of step 3 string is sign **Note:** The value of each key is calculated without the actual value of urlencode

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

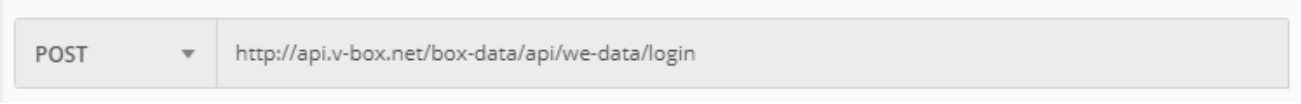
2.1 Login operation

2.1.1 Parameters

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

2.1.2 Operating procedures

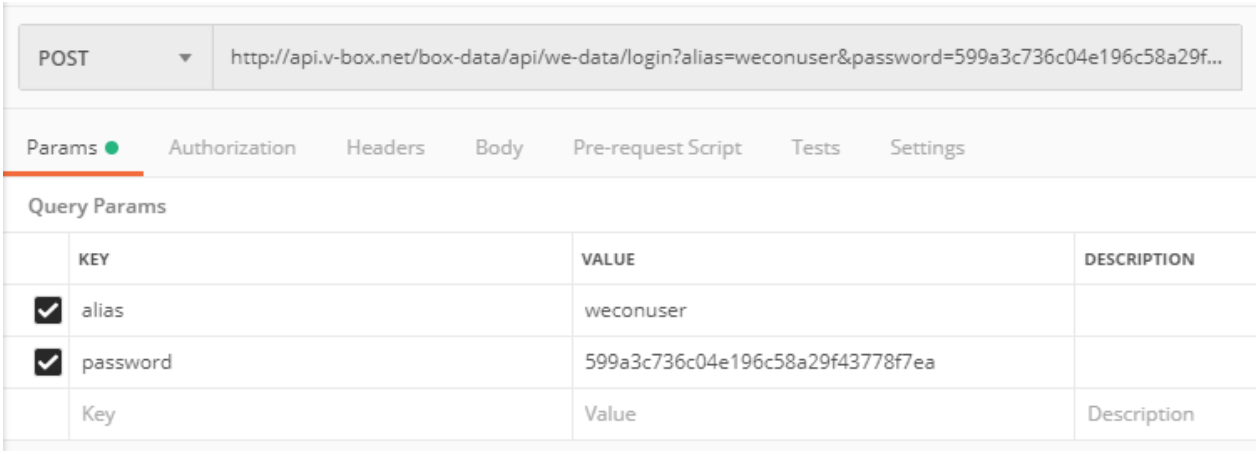
Step 1: Set http: http://api.v-box.net/box-data/api/we-data/login



Step 2: Set parameters on Params

alias: weconuser

password: 599a3c736c04e196c58a29f43778f7ea(Wecon159)



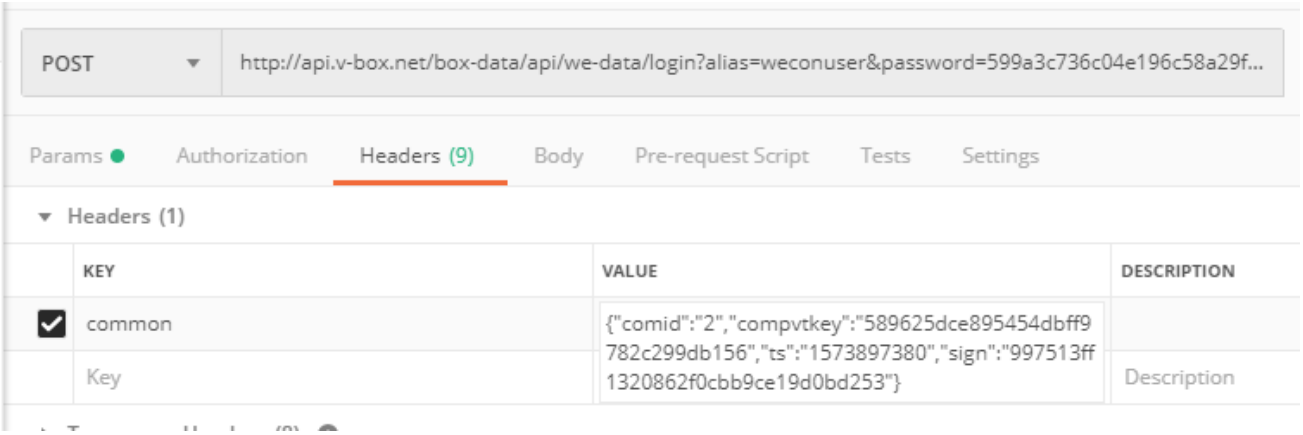
Step 3: Get sign

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

MD5 value: 997513ff1320862f0cbb9ce19d0bd253

Step 4: Set common of header

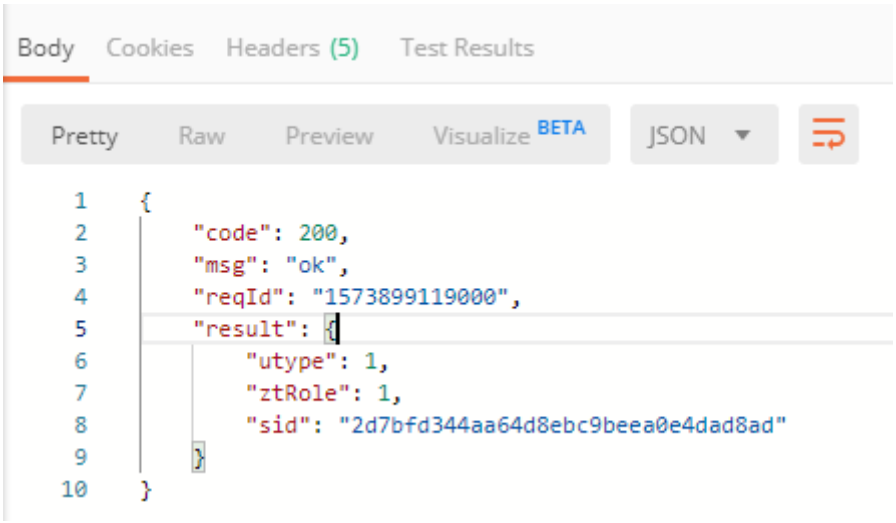
{"comid":"2","compvtkey":"589625dce895454dbff9782c299db156","ts":"1573897380","sign":"997513ff1320862f0cbb9ce19d0bd253"}



2.1.3 Result


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

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



3 Service data APIs

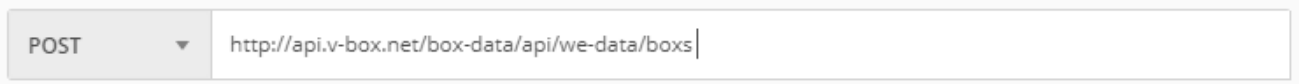
3.1 V-Box list

3.1.1 Parameters

acturl	we-data/boxs			
Functions	Get a list of Vbox (VBox list only show in management account)			
Parameters	None			
Return value	Field name	Description		
	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



Step 2: Set parameters on Params

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

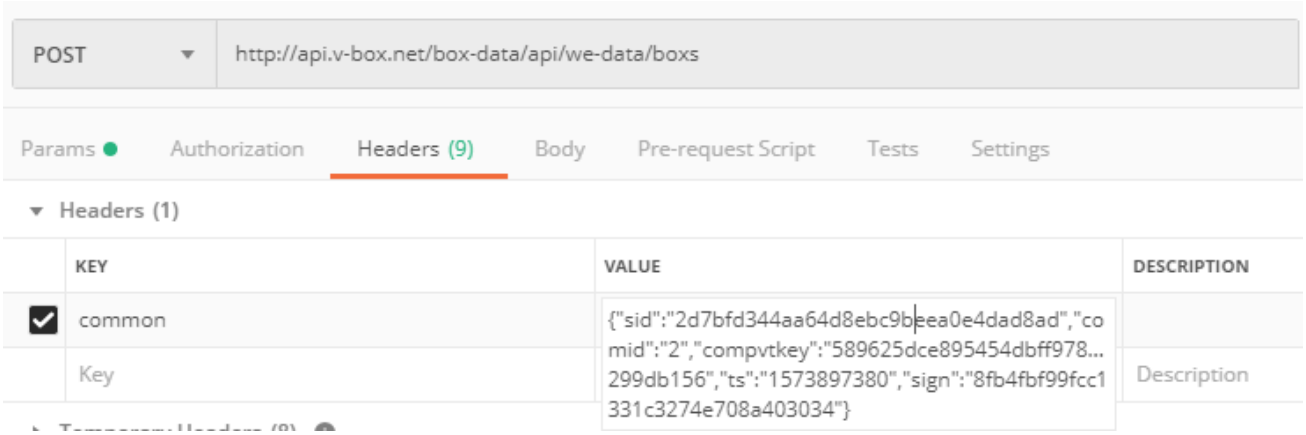
Step 3: Get sign

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

MD5 value: 8fb4fbf99fcc1331c3274e708a403034

Step 4: Set common of header

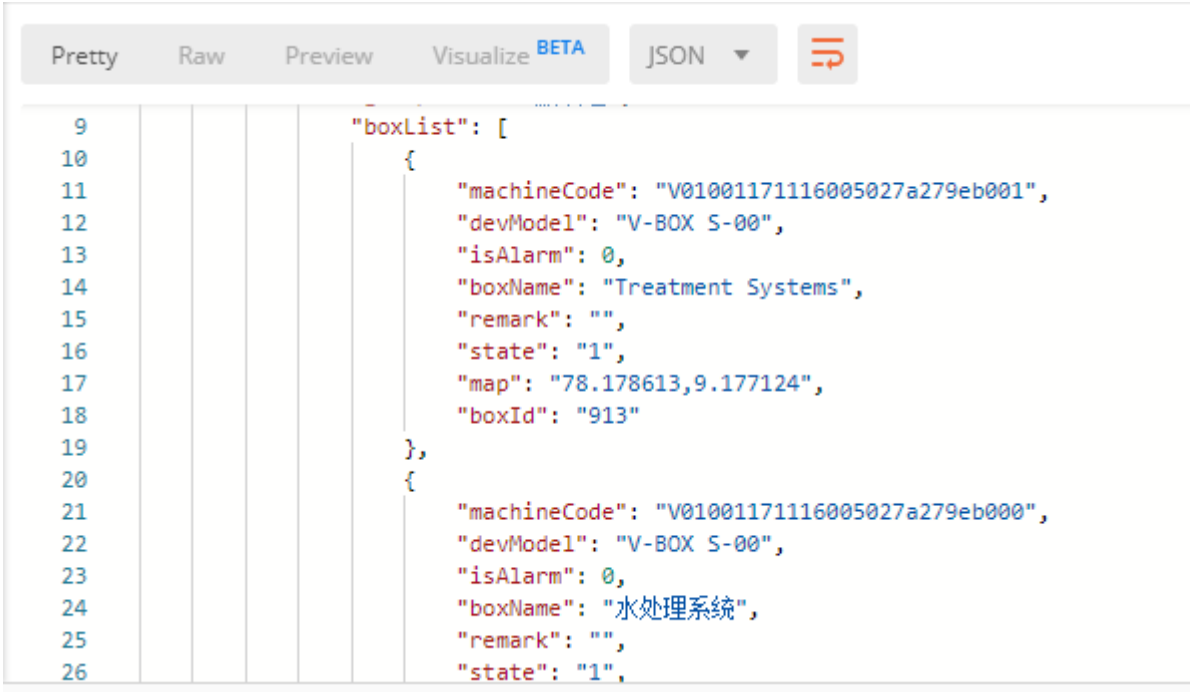
{"sid":"2d7bfd344aa64d8ebc9beea0e4dad8ad","comid":"2","compvtkey":"589625dce895454dbff9782c299db156","ts":"1573897380","sign":"8fb4fbf99fcc1331c3274e708a403034"}



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"
                    },
                      ..........
```

```
                    {
                        "machineCode": "Vir001171116005027a27201908",
                        "devModel": "V-BOX S-00",
                        "isAlarm": 0,
                        "boxName": "智能农场(Smart farm)",
                        "remark": "",
                        "state": "1",
                        "map": "88.637476,50.415074",
                        "boxId": "973"
                    }
                ]
            },
             ……
            {
                "groupName": "制造业(Manufacturing)",
                "boxList": [
                    {
                        "machineCode": "Vir001171116005027a27201904",
                        "devModel": "V-BOX S-00",
                        "isAlarm": 0,
                        "boxName": "调流调压(Adjustment)",
                        "remark": "",
                        "state": "1",
                        "map": "109.316038,33.749868",
                        "boxId": "957"
                    },
                      ……
                    {
                        "machineCode": "Vir001171116005027a27201915",
                        "devModel": "V-BOX S-00",
                        "isAlarm": 0,
                        "boxName": "纺织机房",
                        "remark": "",
                        "state": "1",
                        "map": "121.357068,24.312132",
                        "boxId": "975"
                    }
                ]
            }
        ]
    }
}
```



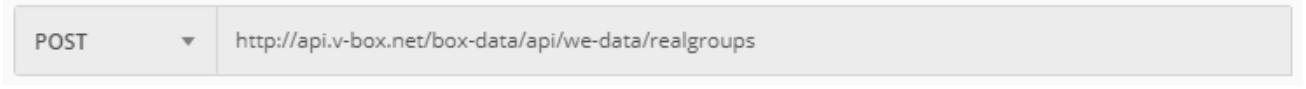
3.2 Real-time group list

3.2.1 Parameters

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

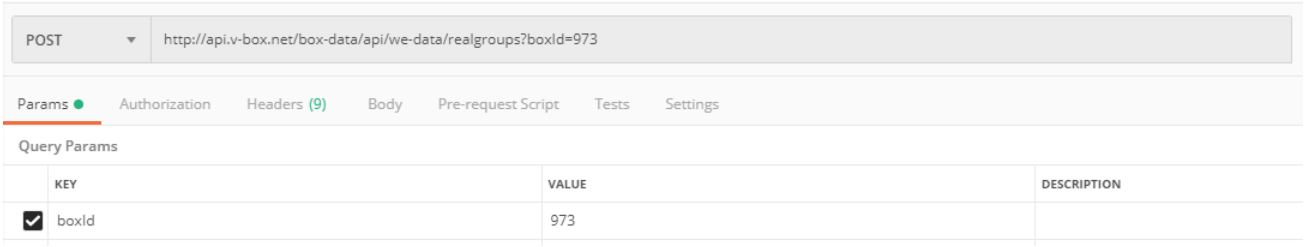
3.2.2 Operating procedures

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



Step 2: Set parameters on Params

"boxId": "973"



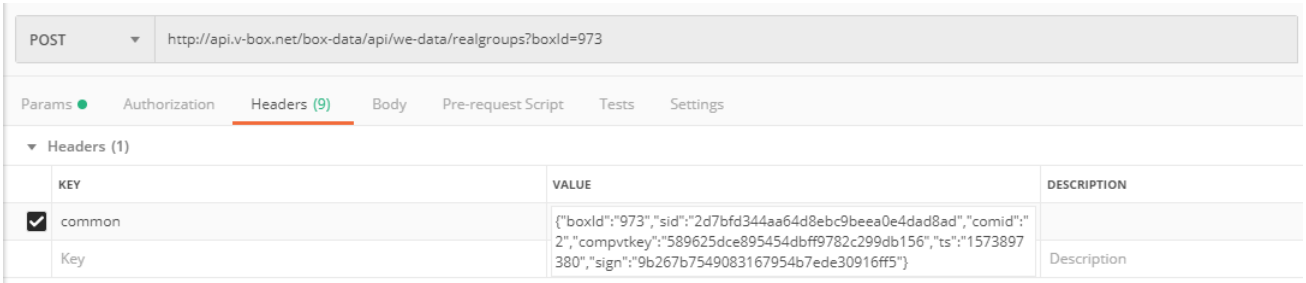
Step 3: Get sign

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

MD5 value: 9b267b7549083167954b7ede30916ff5

Step 4: Set common of header

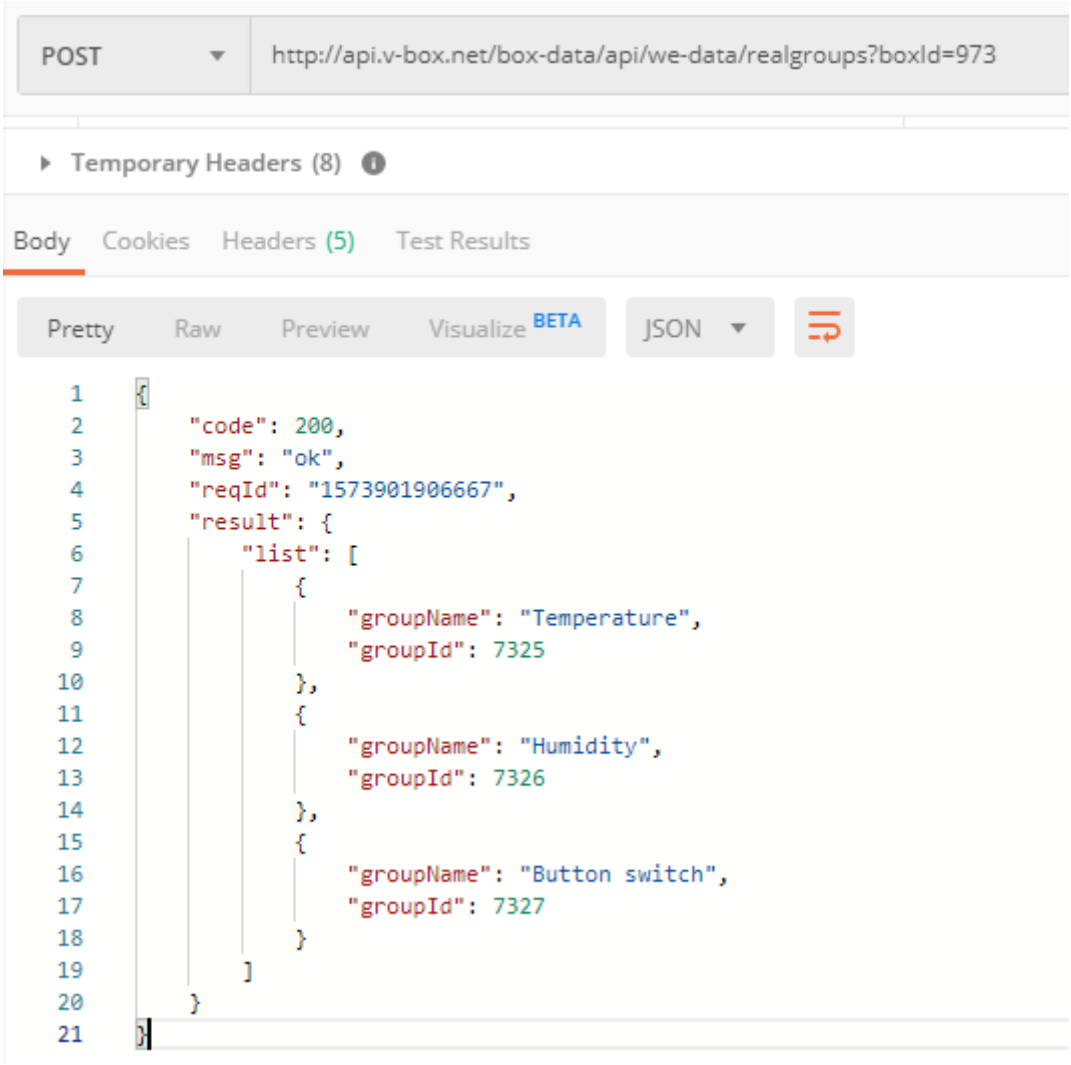
{"boxId":"973","sid":"2d7bfd344aa64d8ebc9beea0e4dad8ad","comid":"2","compvtkey":"589625dce895454dbff9782c299db156","ts":"1573897380","sign":"9b267b7549083167954b7ede30916ff5"}



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
            }
        ]
    }
}
```


```
{
    "code": 200,
    "msg": "ok",
    "reqId": "1573901906667",
    "result": {
        "list": [
            {
                "groupName": "Temperature",
                "groupId": 7325
            },
            {
                "groupName": "Humidity",
                "groupId": 7326
            },
            {
                "groupName": "Button switch",
                "groupId": 7327
            }
        ]
    }
}
```


3.3 Real-time tags configuration list

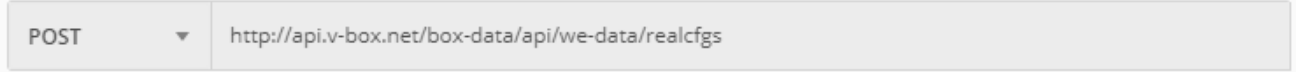
3.3.1 Parameters

acturl	we-data/realcfgs

<table>
<tr><td>Functions</td><td colspan="3">Get the tags configuration information in the specified group in V-BOX.</td></tr>
<tr><td rowspan="6">Parameters</td><td>Parameter</td><td colspan="2">Description</td></tr>
<tr><td>boxId</td><td colspan="2">VBoxID(“None” means custom tags grouping)</td></tr>
<tr><td>groupId</td><td colspan="2">Group ID (Required)</td></tr>
<tr><td>pageSize</td><td colspan="2">Number of each page, 10 by default</td></tr>
<tr><td>pageIndex</td><td colspan="2">Number of current page, start from 1</td></tr>
<tr><td>Field name</td><td colspan="2">Description</td></tr>
<tr><td rowspan="13">Return value</td><td rowspan="11">cfgList</td><td>monitorId</td><td>Tags ID</td></tr>
<tr><td>monitorName</td><td>Tags name</td></tr>
<tr><td>updTime</td><td>Last update time</td></tr>
<tr><td>dataId</td><td>type of data
100: 16-bit binary
101: 16-digit octal
Refer to Appendix 1</td></tr>
<tr><td>addr</td><td>Address</td></tr>
<tr><td>addrType</td><td>0: bit address
1: byte address
2: word address
3: double word</td></tr>
<tr><td>digitCount</td><td>Integer digits, decimal places</td></tr>
<tr><td>digitBinary</td><td>Data type and integer digits, decimal places</td></tr>
<tr><td>dataLimit</td><td>Data range</td></tr>
<tr><td>rid</td><td>Address</td></tr>
<tr><td>roleType</td><td>Permission: 1-read only, 2-write only, 3-read-write</td></tr>
<tr><td>totalPage</td><td colspan="2">Total pages</td></tr>
<tr><td>totalRecord</td><td colspan="2">Total record number</td></tr>
<tr><td>currentPage</td><td colspan="2">Current page number</td></tr>
</table>

3.3.2 Operating procedures

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



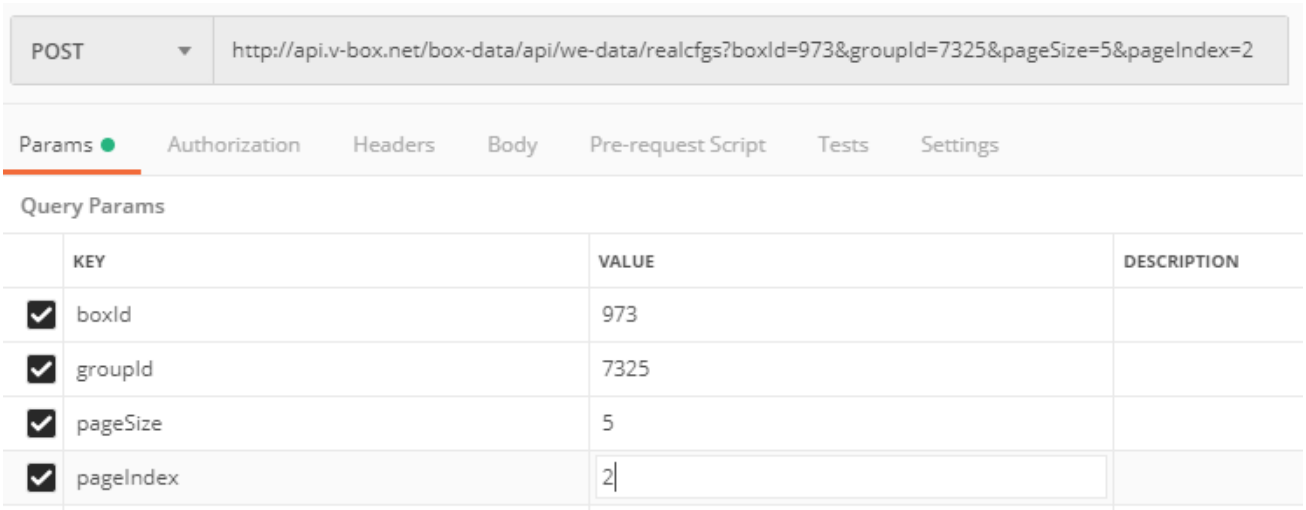
Step 2: Set parameters on Params

"boxId":"973"

"groupId":"7325"

"pageSize":"5"

"pageIndex":"2"



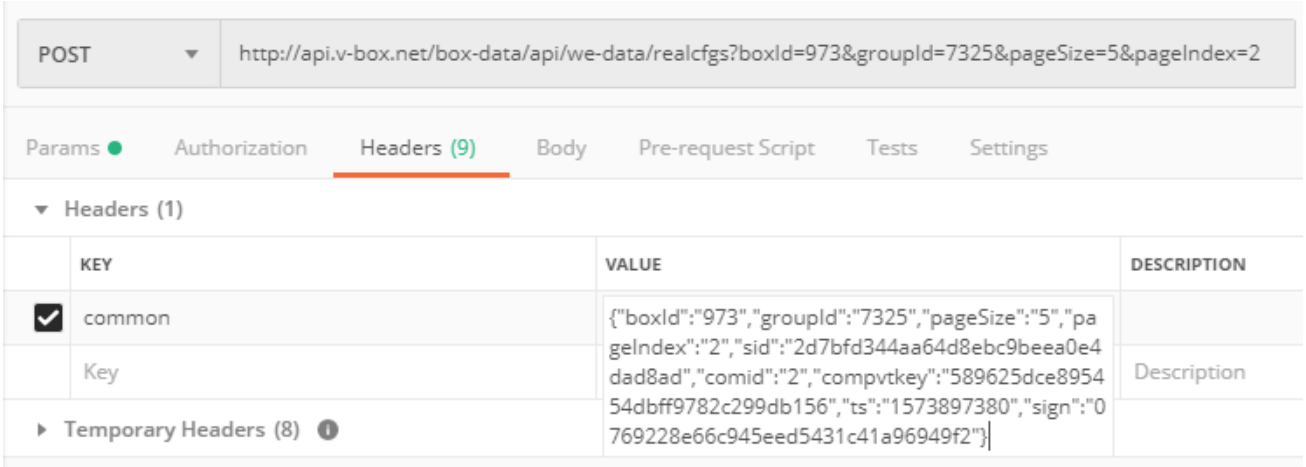
Step 3: Get sign

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"}



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


```
                "dataId": 105,
                "monitorName": "Temp_6",
                "updTime": 1571965761000,
                "dataLimit": "0 7999",
                "digitBinary": "十进制",
                "addr": "6",
                "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
    }
}
```


3.4 Tags data list

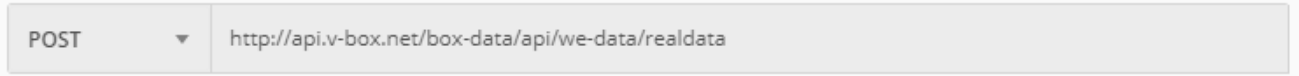
3.4.1 Parameters

acturl	we-data/realdata	
Functions	Get the tags data in the specified group in V-BOX.	
Parameters	Parameter	Description
	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
Return value	Field name	Description

	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



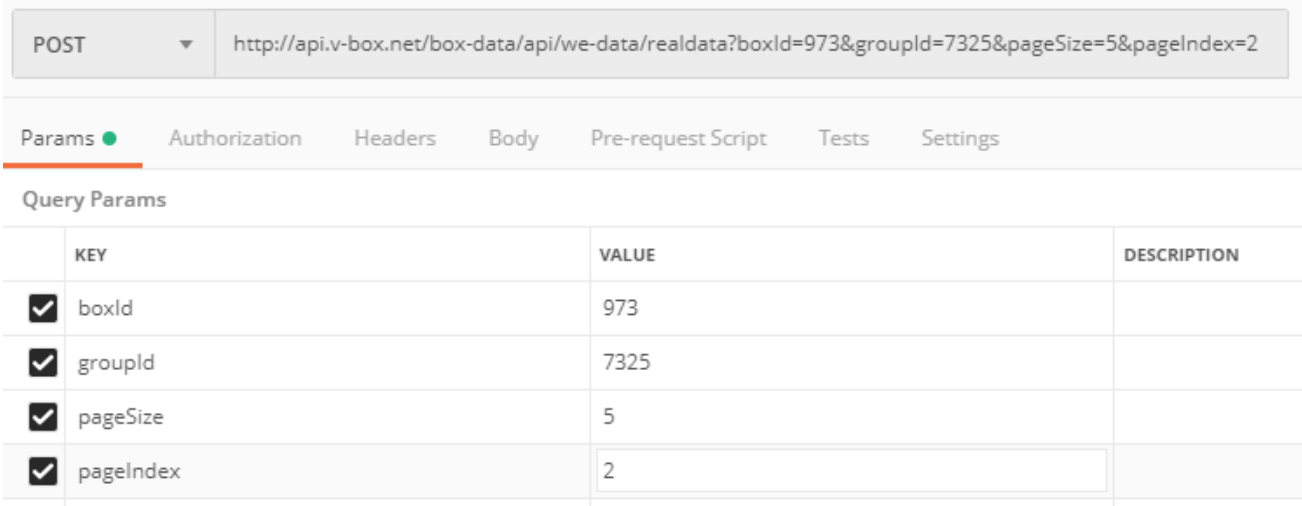
Step 2: Set parameters on Params

"boxId":"973"

"groupId":"7325"

"pageSize":"5"

"pageIndex":"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","compvtkey":"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


```
            },
            {
                "com": 2939,
                "monitorId": 91543,
                "monitorName": "Temp_7",
                "groupId": 0,
                "state": "1",
                "value": "35"
            },
            {
                "com": 2939,
                "monitorId": 91542,
                "monitorName": "Temp_6",
                "groupId": 0,
                "state": "1",
                "value": "3"
            },
            {
                "com": 2939,
                "monitorId": 91541,
                "monitorName": "Temp_5",
                "groupId": 0,
                "state": "1",
                "value": "87"
            }
        ],
        "totalRecord": 15,
        "currentPage": 2
    }
}
```

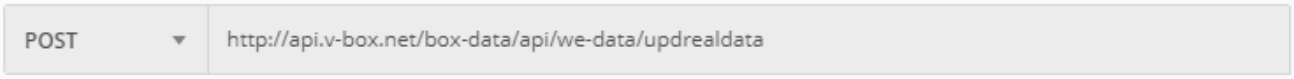

3.5 Modify tag data

3.5.1 Parameters

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

3.5.2 Operating procedures

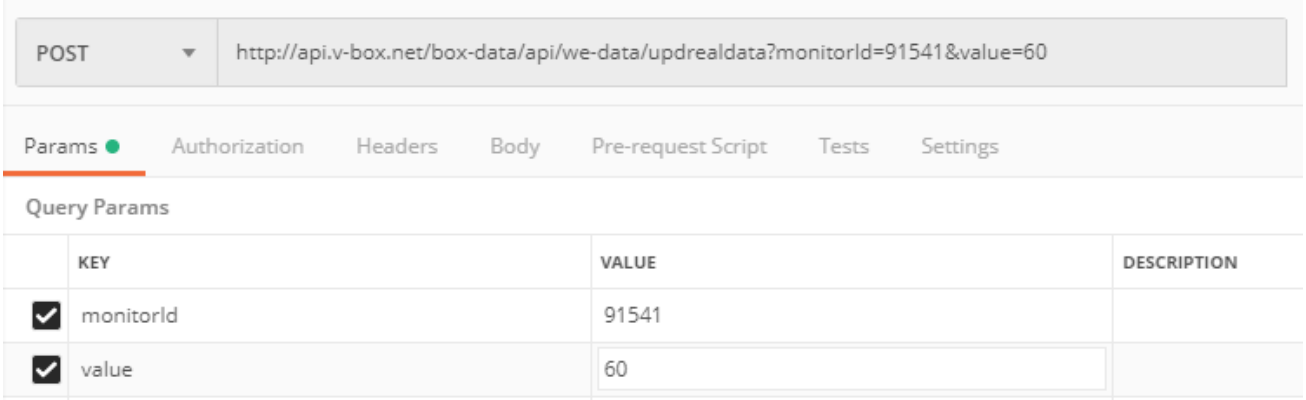
Step 1: Set http: http://api.v-box.net/box-data/api/we-data/updrealdata



Step 2: Set parameters on Params

"monitorId":"91541"

"value":"60"



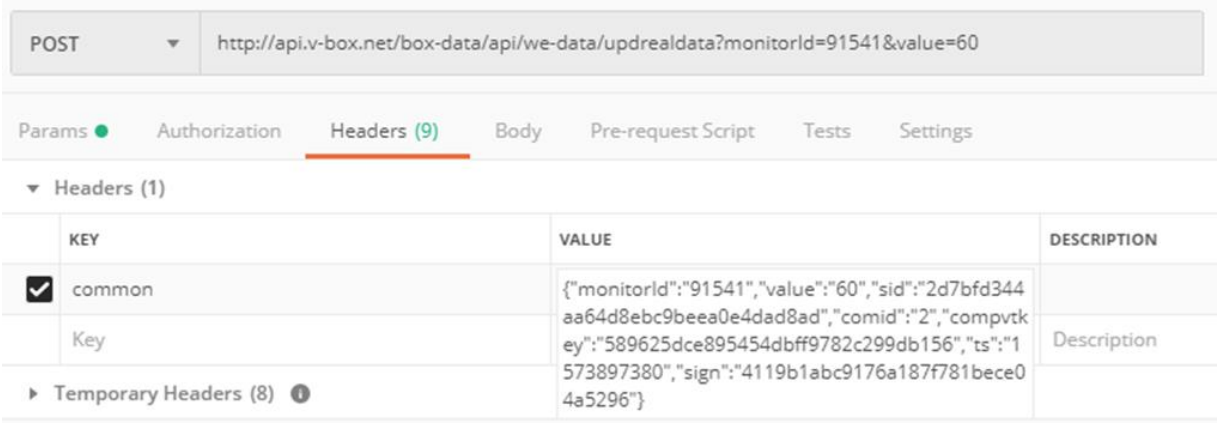
Step 3: Get sign

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

MD5 sign: 4119b1abc9176a187f781bece04a5296

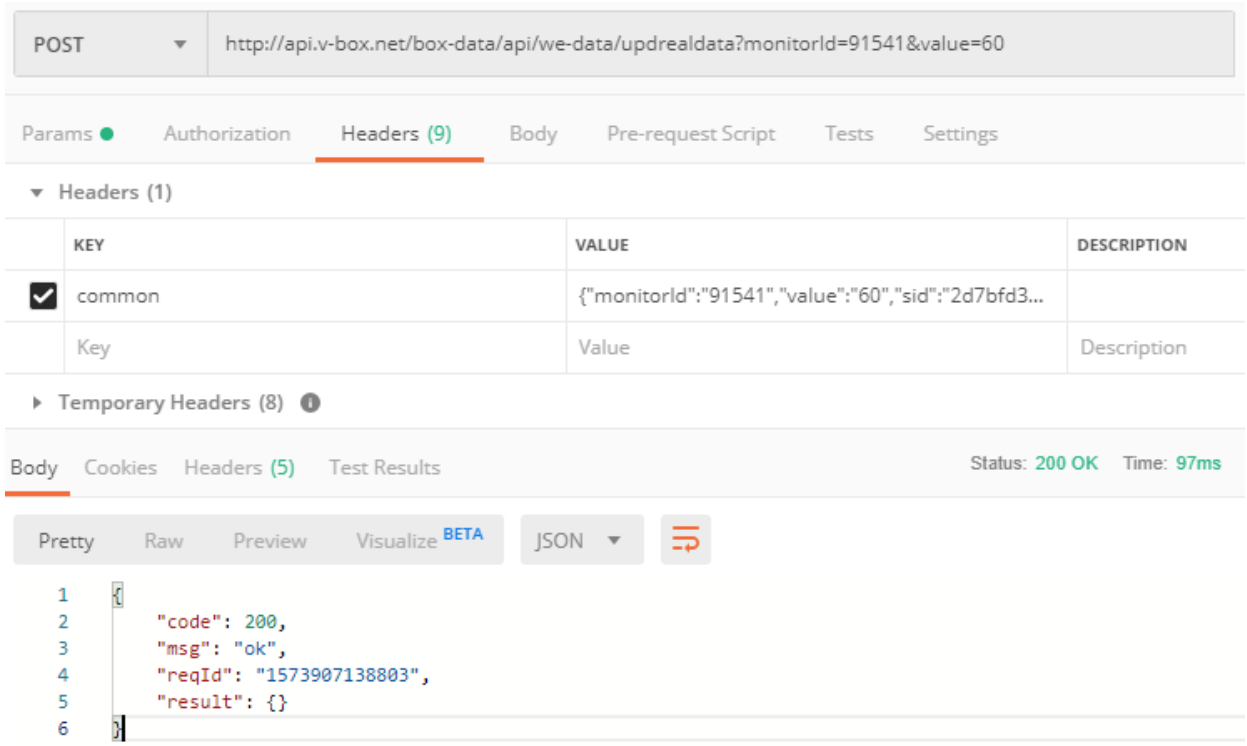
Step 4: Set common of header

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



3.5.3 Result


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

3.6 Historical tags name list

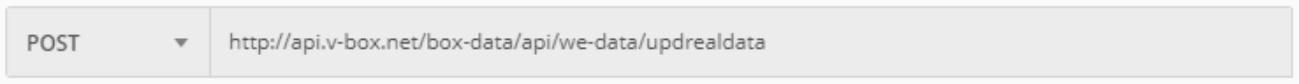
3.6.1 Parameters

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

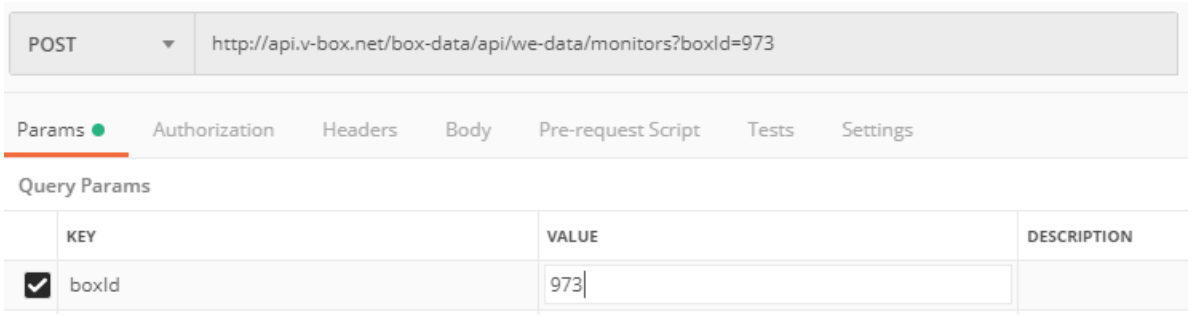
3.6.2 Operating procedures

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



Step 2: Set parameters on Params

"boxId":"973"



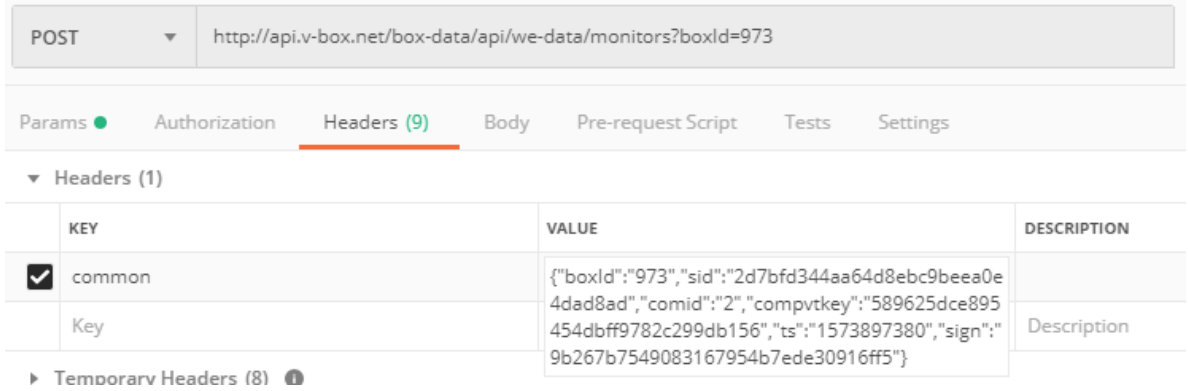
Step 3: Get sign

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

MD5 sign: 9b267b7549083167954b7ede30916ff5

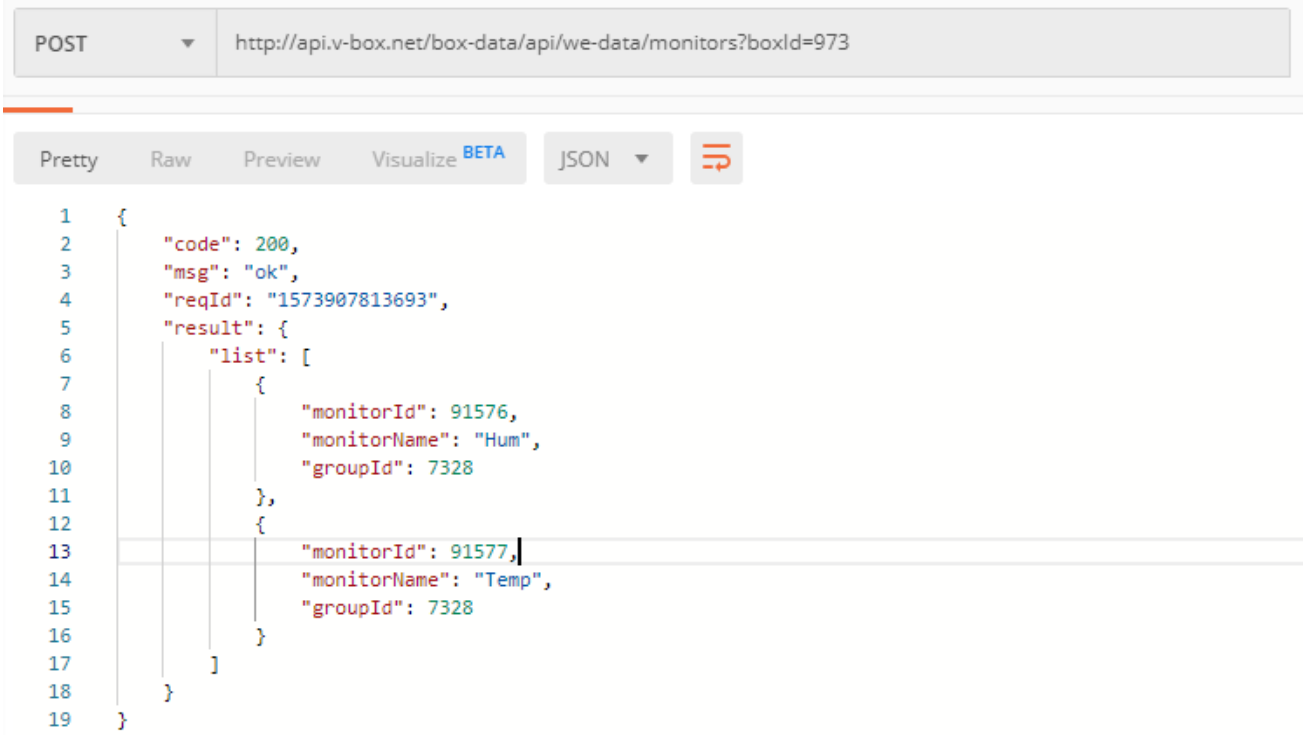
Step 4: Set common of header

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



3.6.3 Result


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

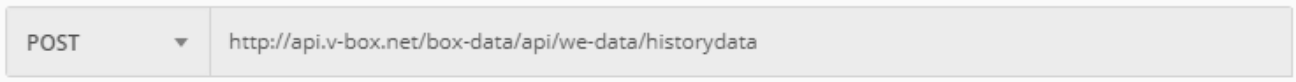
3.7 Historical tag data list

3.7.1 Parameters

acturl	we-data/historydata		
Functions	Get historical data		
Parameters	Parameter	Description	
	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	
Return value	Field name	Description	
	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



Step 2: Set parameters on Params

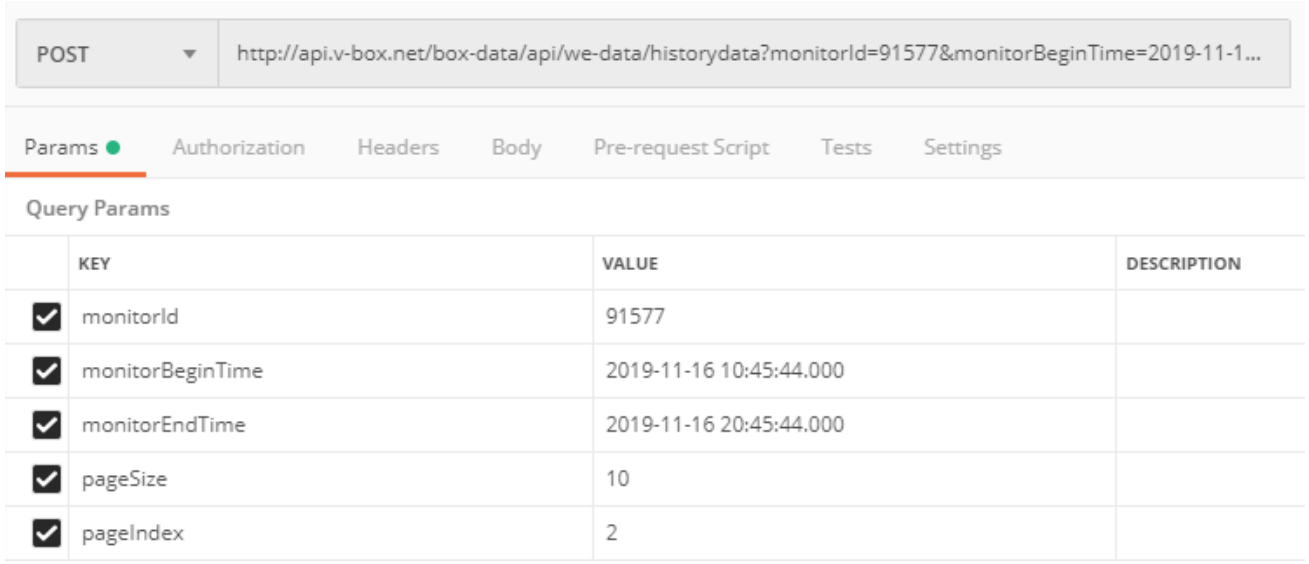
"monitorId": 91577

"monitorBeginTime":"2019-11-16 10:45:44.000"

"monitorEndTime":"2019-11-16 20:45:44.000"

"pageSize":"10"

"pageIndex":"2"



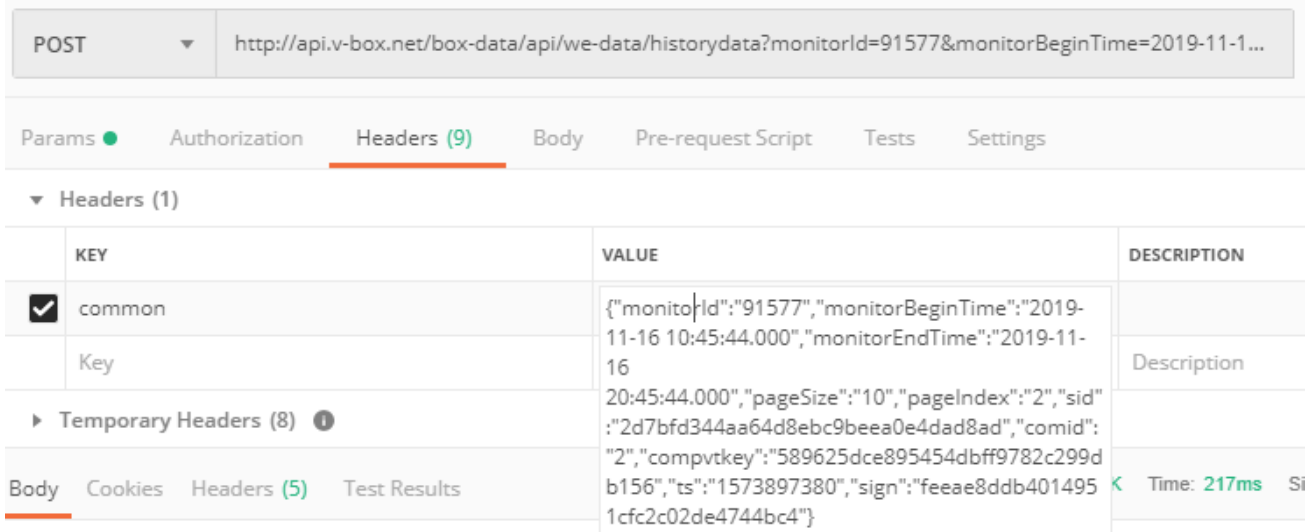
Step 3: Get sign

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: feeae8ddb4014951cfc2c02de4744bc4

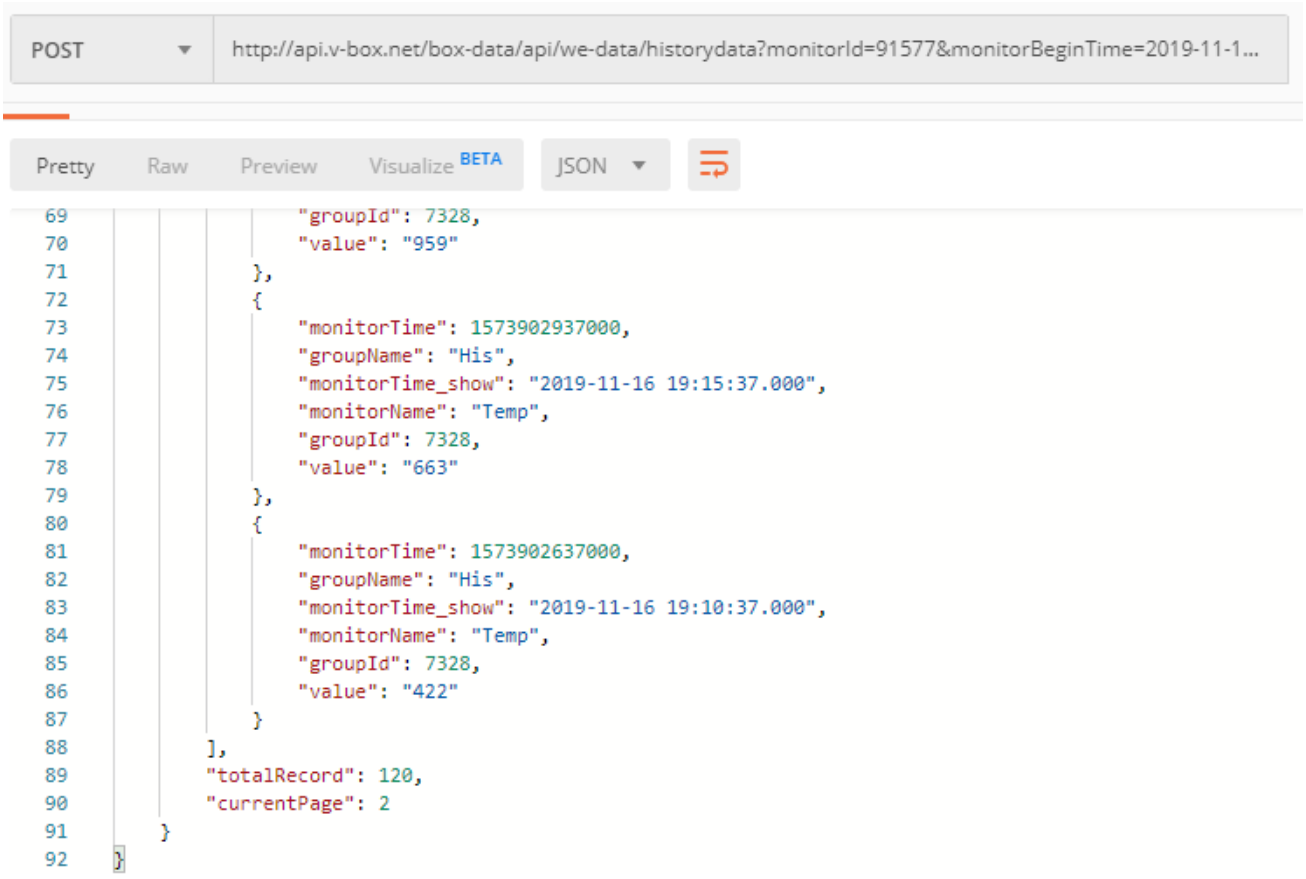
Step 4: Set common of header

{"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":"feeae8ddb4014951cfc2c02de4744bc4"}



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
    }
}
```



3.8 Alarm tags data list

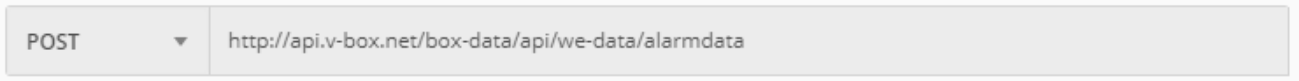
3.8.1 Parameters

acturl	we-data/alarmdata	
Function	Get alarm data	
Parameters	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



Step 2: Set parameters on Params

"monitorId":"91931"

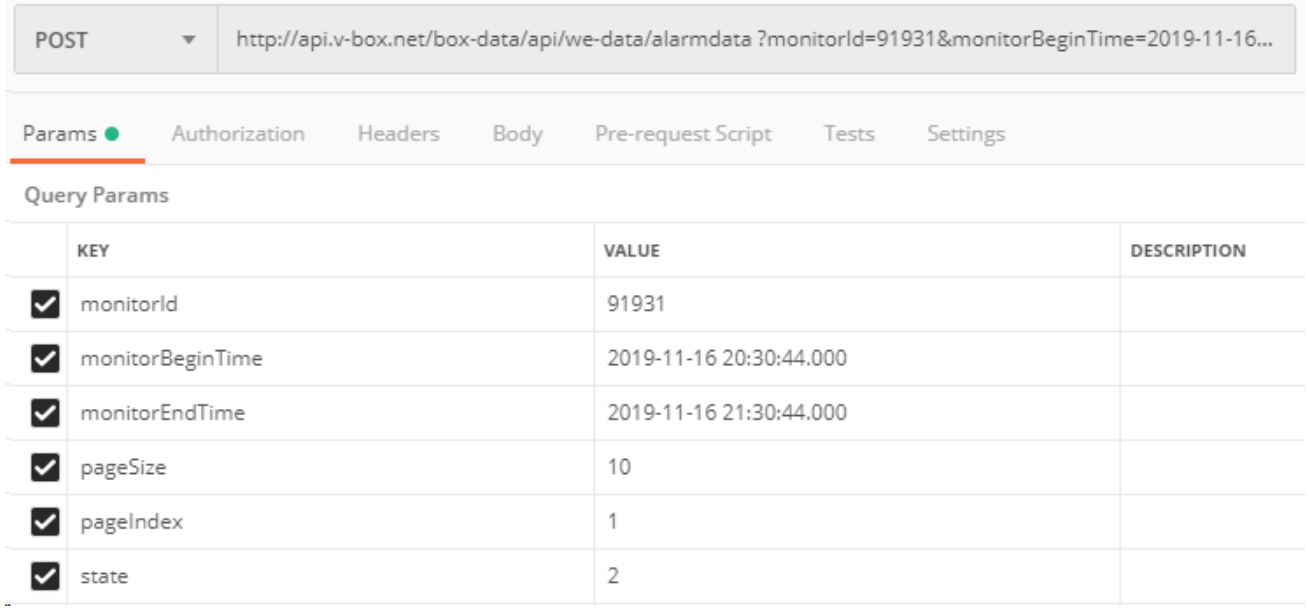
"monitorBeginTime":"2019-11-16 20:30:44.000"

"monitorEndTime":"2019-11-16 21:30:44.000"

"pageSize":"10"

"pageIndex":"1"

"state":"2"



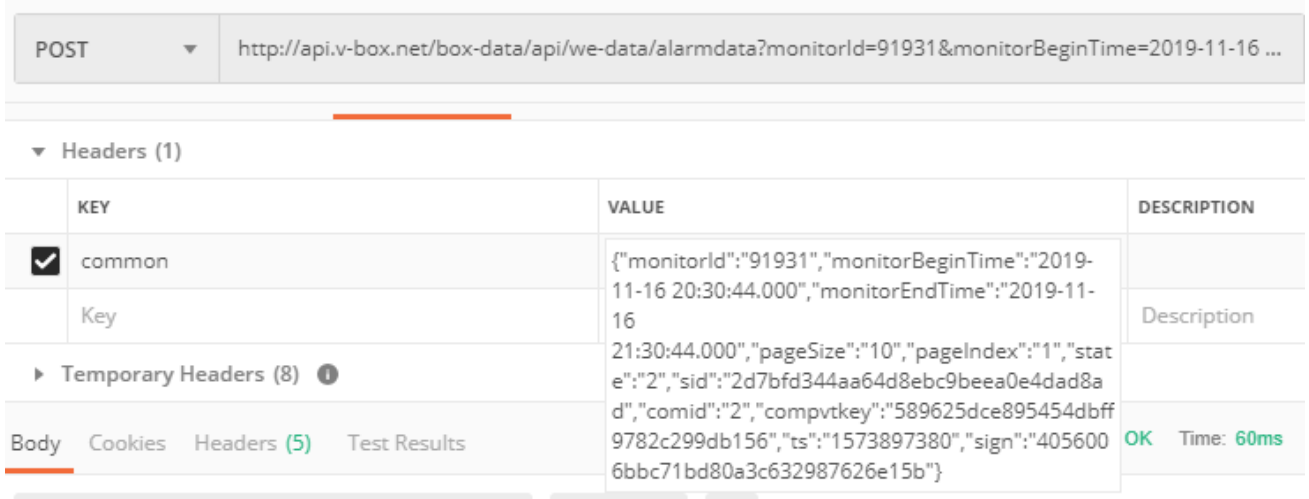
Step 3: Get sign

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"}



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


```
                "monitorName": "Temperature alarm",
                "alarmLevel": 2,
                "state": 2,
                "text": "The temperature is too high",
                "value": "9",
                "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
    }
}
```

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

Version: V1.1.0
Date: Nov 2019