WLAN Integration Guide

Version Record

Date	Version	Description
2019-12-30	v0.93	First release
2020-03-05	v0.95	**Accesstoken** encryption description added
2020-03-21	v0.97	Updated **messageID** description
2020-03-31	v0.99	Updated interface description
2020-07-08	v1.00	Redefine Client/Server, fixed other wrong descriptions
2020-10-08	v1.01	Correct a writing error in the **ReadDevice** reference
2020-11-04	v1.02	TDBU blinds feature added, fixed other wrong descriptions
2022-03-17	V1.03	Vertical blinds feature added, new attribute **chargingState** added

Scope and Purpose

This guide introduces how to integrate motorized window covering products (For instance, Wi-Fi bridge & 433MHz Radio motors) into a 3rd party automation system via WLAN access.

Note: The 'Connector' APP must configure all of the setups include Bridge pairing and blinds adding. The 3rd party is unable to add/edit/delete the Wi-Fi bridge and the child devices/blinds. It only has child devices control permission via WLAN.

Definition

Client/Server

Client: The 3rd party automation system

Server: Wi-Fi bridge

Server UDP multicast address

Server receive: [238.0.0.18:32100]

Server sending: [238.0.0.18:32101]

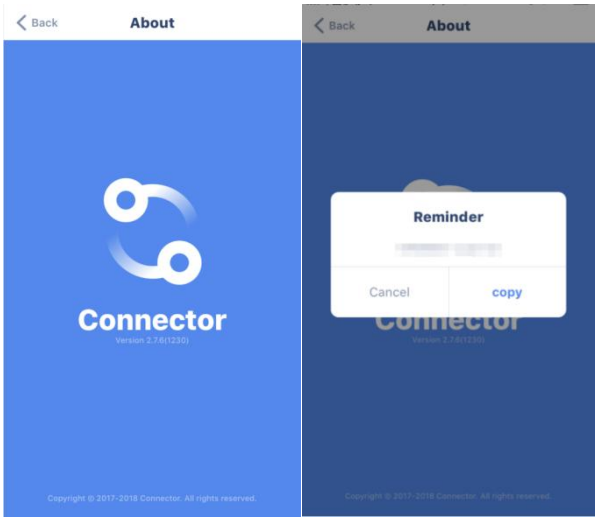
messageID/msgID

After each interface operation, messageID/msgID should be increased, otherwise **Server** will not respond.

KEY/**token**/**AccessToken**:

KEY is a 16-byte length string. It assigns by Connector APP. **KEY** and **token** use to create a 16-byte length **AccessToken**, **Server** responses only when it receives the correct **AccessToken**, the **AccessToken** algorithm reference is at the end of the document.

Please quickly tap the 'Connector APP About' page 5 times to get **KEY**.



token is a 16-byte length string. The **Client** can capture **token** in the interface '**Device discovering**' or '**Heartbeat**.'

Accesstoken calculation logic & reference

Please use the URL below to verify your encryption.

https://www.devglan.com/online-tools/aes-encryption-decryption

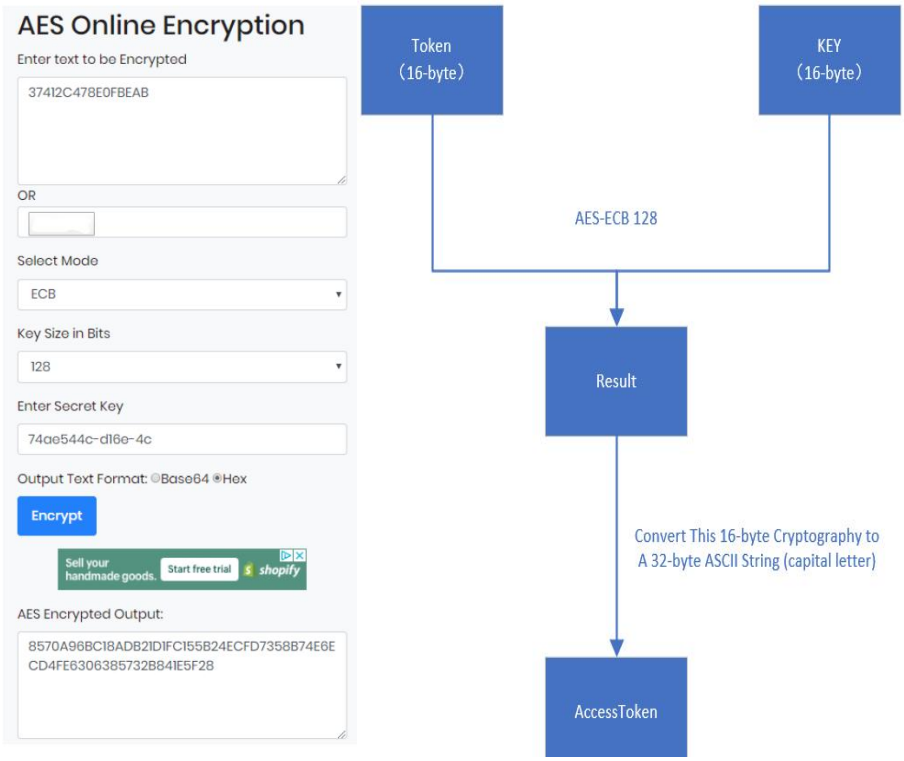
Fill **token** in 'Enter text to be Encrypted,' fill **KEY** in 'Enter Secret Key.' ('Select Mode' == 'ECB' ; 'Key Size in Bits' == '128'; 'Output Text Format' == 'Hex')

For example

token : 37412C478E0FBEAB

KEY : 74ae544c-d16e-4c

AccessToken : 8570A96BC18ADB21D1FC155B24ECFD73


AES Online Encryption
Enter text to be Encrypted
37412C478E0FBEAB
OR
Select Mode
ECB
Key Size in Bits
128
Enter Secret Key
74ae544c-d16e-4c
Output Text Format: Base64 Hex
Encrypt
Sell your handmade goods.
Start free trial
shopify
AES Encrypted Output:
8570A96BC18ADB21D1FC155B24ECFD7358B74E6E
CD4FE6306385732B841E5F28
Token
(16-byte)
KEY
(16-byte)
AES-ECB 128
Result
Convert This 16-byte Cryptography to
A 32-byte ASCII String (capital letter)
AccessToken

The integration process

1. Device discovering using ‘Get device list’.
2. Calculate ‘**Accesstoken**’ using **KEY** and **token**.
3. Control child devices using ‘Child device control’, ‘Child device status query’, and ‘Child device status report’.

Interface

Get device list

Get device list from Wi-Fi Bridge, includes Wi-Fi Bridge and child devices.

1. **Client** discovers Wi-Fi bridge & child devices using UDP unicast [Client_IP:32100] or UPD multicast [238.0.0.18:32100].
2. **Server** uploads lists by UDP unicast [Client_IP:32101].

Interface parameters:

Name	Type	Value	Description
msgType	String	**GetDeviceList**	Get device list
msgID	String		Message-ID (Timestamp)

Interface response

Name	Type	Value	Description
msgType	String	**GetDeviceListAck**	Upload device list
mac	String		Wi-Fi Bridge MAC address
deviceType	String		10000000: 433Mhz radio motor 22000000: Wi-Fi Curtain 02000001: Wi-Fi Bridge 22000002: Wi-Fi tubular motor 22000005:Wi-Fi receiver
ProtocolVersion	String		WLAN access protocol version
token	String		Token
data	JsonArray		Child device list

JsonArray

Name	Type	Value	Description
mac	String		Child device mac
deviceType	String		10000000: 433Mhz radio motor

Reference

Request data

```
//From Client_IP:PORT to 238.0.0.18:32100 or Form Client_IP:PORT to Server_IP:32100
{
    "msgType":"GetDeviceList",
    "msgID":"20200321134209916"
}
```

Response data

```
// From Server_IP:32100 to Client_IP:PORT
{
    "msgType":"GetDeviceListAck",
    "mac":"500291b691fd",
    "deviceType":"02000001",
    "ProtocolVersion":"0.9",
    "token":"37412C478E0FBEAB",
    "data":[
        {
            "mac":"500291b691fd",
            "deviceType":"02000001"
        },
        {
            "mac":"500291b691fd005f",
            "deviceType":"10000000"
        },
        {
            "mac":"500291b691fd0060",
            "deviceType":"10000000"
        }
    ]
}
```

Heartbeat

Keep alive, **Server** heartbeats per 30~60 seconds using UPD multicast [238.0.0.18:32101].

Interface parameters:

Name	Type	Value	Description
msgType	String	**Heartbeat**	
mac	String		Wi-Fi Bridge MAC address
deviceType	String		Device application type 02000001: Wi-Fi Bridge 10000000: 433Mhz radio motor 22000000: Wi-Fi Curtain 22000002: Wi-Fi tubular motor 22000005:Wi-Fi receiver
token	String		Token
data	JsonArray		Info

JsonArray

Name	Type	Value	Description
currentState	enum	1|2|3	1 : Working 2 : Pairing 3 : Updating
numberOfDevices	Int		Number of Child devices
RSSI	Int		Wi-Fi connection strength

Reference

Response data

```
// From Server_IP:32100 to 238.0.0.18:32101
{
    "msgType": "Heartbeat",
    "mac": "b4e62db27481",
    "deviceType": "02000001",
    "token": "37412C478E0FBEAB",
    "data": {
        "currentState": 1,
        "numberOfDevices": 3,
        "RSSI": -21
    }
}
```

Child-device control

Client controls child-devices using '**WriteDevice**' message. (UDP unicast [Client_IP:32100] or UPD multicast [238.0.0.18:32100])

Server response using '**WriteDeviceAck**', and returns the child-device current status. (UDP unicast [Client_IP])

Interface parameters:

Name	Type	Value	Description
msgType	String	**WriteDevice**	Child-device control
mac	String		Message-ID (Timestamp)
deviceType	String		02000001: Wi-Fi Bridge 10000000: 433Mhz radio motor 22000000: Wi-Fi Curtain 22000002: Wi-Fi tubular motor 22000005:Wi-Fi receiver
AccessToken	String		
msgID	String		Timestamp
data	JsonArray		Control command

JsonArray

Name	Type	Value	Description
operation	enum	0|1|2|3|5	0: Close/Down 1: Open/Up 2: Stop 5: Status query
targetPosition	Int		0-100
targetAngle	Int		0-180

targetAngle is used for the rotation control of Venetian Blinds and Vertical Blinds.

JsonArray (for TDBU Blinds only)

Name	Type	Value	Description
operation_T operation_B	enum	0|1|2|3|5	0: Close/Down 1: Open/Up 2: Stop 5: Status query
targetPosition_T targetPosition_B	Int		0-100

Interface response

Name	Type	Value	Description
msgType	String	**WriteDeviceAck**	
mac	String		Wi-Fi Bridge MAC address
deviceType	String		10000000: 433Mhz radio motor
msgID	String		Timestamp
data	JsonArray		

JsonArray

Name	Type	Value	Description
type	Int		1:Roller Blinds 2:Venetian Blinds 3:Roman Blinds 4:Honeycomb Blinds 5:Shangri-La Blinds 6:Roller Shutter 7:Roller Gate 8:Awning 10:Day&night Blinds 11:Dimming Blinds 12:Curtain 13:Curtain(Open Left) 14:Curtain(Open Right)
operation	enum	0|1|2|5	0: Close/Down 1: Open/Up 2: Stop 5: Status query
currentPosition	Int		0-100
currentAngle	Int		0-180
currentState	enum	0|1|2|3|4	0: No limits 1: Top-limit detected 2: Bottom-limit detected 3: Limits detected 4: 3rd -limit detected
voltageMode	enum	0|1	0: AC Motor 1: DC Motor
batteryLevel	Int		Power voltage (DC motor only)
wirelessMode	enum	0|1|2|3|4|5	0: Uni-direction 1: Bi-direction 2: Bi-direction (mechanical limits) 3: Wi-Fi 4: Bi-direction(virtual percentage) 5: Others
RSSI	Int		Radio signal strength

JsonArray (for TDBU blinds only)

Name	Type	Value	Description
type	Int		9:TDBU
operation_T operation_B	enum	0|1|2|5	0: Close/Down 1: Open/Up 2: Stop 5: Status query
exist_subid			
currentPosition_T currentPosition_B	Int		0-100
currentState_T currentState_B	enum	0|1|2|3|4	0: No limits 1: Top-limit detected 2: Bottom-limit detected 3: Limits detected 4: 3rd -limit detected
voltageMode	enum	0|1	0: AC Motor 1: DC Motor
batteryLevel_T batteryLevel_B	Int		Power voltage (DC motor only)
wirelessMode	enum	0|1|2|3	0: Uni-direction 1: Bi-direction 2: Bi-direction (mechanical limits) 3: Wi-Fi 4: Bi-direction(virtual percentage) 5: Others
RSSI	Int		Radio signal strength

Reference

Percentage control

Only bi-directional devices supported (wireless Mode == 1 required).

Request data

```
// From Client_IP:PORT to 238.0.0.18:32100 or From Client_IP:PORT -> Server_IP:32100
{
	"msgType": "WriteDevice",
	"mac": "b4e62db27481001f",
	"deviceType": "10000000",
	"AccessToken": "0D5D443049491C20988B46AC54323BA2",
	"msgID": "20200331103919505",
	"data": {
		"targetPosition": 44
	}
}
```

Respond data

```
// Form Server_IP:32100 to Client_IP:PORT
{
	"msgType": "WriteDeviceAck",
	"mac": "b4e62db27481001f",
	"deviceType": "10000000",
	"msgID": "20200331103919505",
	"data": {
		"type": 13,
		"operation": 2,
		"currentPosition": 59,
		"currentAngle": 180,
		"currentState": 3,
		"voltageMode": 0,
		"batteryLevel": 811,
		"wirelessMode": 1,
		"RSSI": -73
	}
}
```

Percentage control (for TDBU blinds only)

Only bi-directional devices supported (wireless Mode == 1 required).

Request data

```
// Form Client_IP:PORT to 238.0.0.18:32100 or From Client_IP:PORT to Server_IP:32100
{
        "msgType" : "WriteDevice",
        "mac" : "b4e62db27481005d",
        "deviceType" : "10000001"
        "AccessToken" : "0D5D443049491C20988B46AC54323BA2",
        "msgID" : "20201103151055138",
        "data" : {
                "targetPosition_B" : 75,
                "targetPosition_T" : 35
        },
}
```

Respond data

```
// From Server_IP:32100 to Client_IP:PORT
{
        "msgType":"WriteDeviceAck",
        "mac":"b4e62db27481005d",
        "deviceType":"10000001",
        "msgID":"20201103151055138",
        "data":{
                "type":9,
                "exist_subid":1,
                "operation_T":2,
                "operation_B":2,
                "currentPosition_T":35,
                "currentPosition_B":95,
                "currentState_T":3,
                "currentState_B":3,
                "voltageMode":1,
                "batteryLevel_T":836,
                "batteryLevel_B":836,
                "wirelessMode":1,
                "RSSI":-40
        }
}
```

Rotation/Angle control

Only bi-directional devices supported (wireless Mode == 1 required).

Request data

```
// Form Client_IP:PORT to 238.0.0.18:32100 or From Client_IP:PORT to Server_IP:32100
{
	"msgType": "WriteDevice",
	"mac": "b4e62db27481001f",
	"deviceType": "10000000",
	"AccessToken": "0D5D443049491C20988B46AC54323BA2",
	"msgID": "20200331105628663",
	"data": {
		"targetAngle": 78
	}
}
```

Respond data

```
// From Server_IP:32100 to Client_IP:PORT
{
	"msgType": "WriteDeviceAck",
	"mac": "b4e62db27481001f",
	"deviceType": "10000000",
	"msgID": "20200331105628663",
	"data": {
		"type": 13,
		"operation": 0,
		"currentPosition": 44,
		"currentAngle": 0,
		"currentState": 3,
		"voltageMode": 0,
		"batteryLevel": 811,
		"wirelessMode": 1,
		"RSSI": -68
	}
}
```

Open/Up

Request data

```
// Form Client_IP:PORT to 238.0.0.18:32100 or From Client_IP:PORT to Server_IP:32100
{
        "msgType": "WriteDevice",
        "mac": "b4e62db27481001f",
        "deviceType": "10000000",
        "AccessToken": "0D5D443049491C20988B46AC54323BA2",
        "msgID": "20200331105646317",
        "data": {
                "operation": 1
        }
}
```

Respond data

```
// From Server_IP:32100 to Client_IP:PORT
{
        "msgType": "WriteDeviceAck",
        "mac": "b4e62db27481001f",
        "deviceType": "10000000",
        "msgID": "20200331105646317",
        "data": {
                "type": 13,
                "operation": 2,
                "currentPosition": 47,
                "currentAngle": 77,
                "currentState": 3,
                "voltageMode": 0,
                "batteryLevel": 811,
                "wirelessMode": 1,
                "RSSI": -67
        }
}
```

Open/Up (for TDBU blinds only)

Request data

```
// Form Client_IP:PORT to 238.0.0.18:32100 or From Client_IP:PORT to Server_IP:32100
{
        "msgType" : "WriteDevice",
        "mac" : "b4e62db27481005d",
        "deviceType" : "10000001",
        "AccessToken" : "0D5D443049491C20988B46AC54323BA2",
        "msgID" : "20201104095555138",
        "data" : {
           "operation_B" : 1,
           "operation_T" : 1
        }
}
```

Respond data

```
// From Server_IP:32100 to Client_IP:PORT
{
        "msgType":"WriteDeviceAck",
        "mac":"b4e62db27481005d",
        "deviceType":"10000001",
        "msgID":"20201104095555138",
        "data":{
                "type":9,
                "exist_subid":1,
                "operation_T":2,
                "operation_B":2,
                "currentPosition_T":21,
                "currentPosition_B":53,
                "currentState_T":3,
                "currentState_B":3,
                "voltageMode":1,
                "batteryLevel_T":835,
                "batteryLevel_B":835,
                "wirelessMode":1,
                "RSSI":-42
            }
}
```

Close/Down

Request data

```
// Form Client_IP:PORT to 238.0.0.18:32100 or From Client_IP:PORT to Server_IP:32100
{
        "msgType": "WriteDevice",
        "mac": "b4e62db27481001f",
        "deviceType": "10000000",
        "AccessToken": "0D5D443049491C20988B46AC54323BA2",
        "msgID": "20200331105735705",
        "data": {
                "operation": 0
        }
}
```

Respond data

```
// From Server_IP:32100 to Client_IP:PORT
{
        "msgType": "WriteDeviceAck",
        "mac": "b4e62db27481001f",
        "deviceType": "10000000",
        "msgID": "20200331105735705",
        "data": {
                "type": 13,
                "operation": 2,
                "currentPosition": 0,
                "currentAngle": 0,
                "currentState": 3,
                "voltageMode": 0,
                "batteryLevel": 811,
                "wirelessMode": 1,
                "RSSI": -68
        }
}
```

Close/Down (for TDBU blinds only)

Request data

```
// Form Client_IP:PORT to 238.0.0.18:32100 or From Client_IP:PORT to Server_IP:32100
{
        "msgType" : "WriteDevice",
        "mac" : "b4e62db27481005d",
        "deviceType" : "10000001",
        "AccessToken" : "0D5D443049491C20988B46AC54323BA2",
        "msgID" : "20201104100955213",
        "data" : {
           "operation_B" : 0,
           "operation_T" : 0
        }
}
```

Respond data

```
// From Server_IP:32100 to Client_IP:PORT
{
        "msgType":"WriteDeviceAck",
        "mac":"b4e62db27481005d",
        "deviceType":"10000001",
        "msgID":"20201104100955213",
        "data":{
                "type":9,
                "exist_subid":1,
                "operation_T":2,
                 "operation_B":2,
                "currentPosition_T":0,
                "currentPosition_B":0,
                "currentState_T":3,
                "currentState_B":3,
                "voltageMode":1,
                "batteryLevel_T":835,
                "batteryLevel_B":835,
                "wirelessMode":1,
                "RSSI":-37
         }
}
```

Stop

Request data

```
// Form Client_IP:PORT to 238.0.0.18:32100 or From Client_IP:PORT to Server_IP:32100
{
        "msgType": "WriteDevice",
        "mac": "b4e62db27481001f",
        "deviceType": "10000000",
        "AccessToken": "0D5D443049491C20988B46AC54323BA2",
        "msgID": "20200331105833122",
        "data": {
                "operation": 2
        }
}
```

Respond data

```
// From Server_IP:32100 to Client_IP:PORT
{
        "msgType": "WriteDeviceAck",
        "mac": "b4e62db27481001f",
        "deviceType": "10000000",
        "msgID": "20200331105833122",
        "data": {
                "type": 13,
                "operation": 2,
                "currentPosition": 100,
                "currentAngle": 180,
                "currentState": 3,
                "voltageMode": 0,
                "batteryLevel": 811,
                "wirelessMode": 1,
                "RSSI": -70
        }
}
```

Stop (for TDBU blinds only)

Request data

```
// Form Client_IP:PORT to 238.0.0.18:32100 or From Client_IP:PORT to Server_IP:32100
{
        "msgType" : "WriteDevice",
        "mac" : "b4e62db27481005d",
        "deviceType" : "10000001",
        "AccessToken" : "0D5D443049491C20988B46AC54323BA2",
        "msgID" : "20201104101726121",
        "data" : {
           "operation_B" : 2,
           "operation_T" : 2
        }
}
```

Respond data

```
// From Server_IP:32100 to Client_IP:PORT
{
        "msgType":"WriteDeviceAck",
        "mac":"b4e62db27481005d",
        "deviceType":"10000001",
        "msgID":"20201104101726121",
        "data":{
                "type":9,
                "exist_subid":1,
                "operation_T":2,
                "operation_B":2,
                "currentPosition_T":68,
                "currentPosition_B":100,
                "currentState_T":3,
                "currentState_B":3,
                "voltageMode":1,
                "batteryLevel_T":834,
                "batteryLevel_B":834,
                "wirelessMode":1,
                "RSSI":-43
        }
}
```

Child-device status report

The child-device reports status after it stops running(UPD multicast [238.0.0.18:32101]).

Only bi-directional motors supported(wireless Mode == 1 required).

Interface parameters:

Name	Type	Value	Description
msgType	String	**Report**	Status report
mac	String		Message-ID (Timestamp)
deviceType	String		
msgID	String		Timestamp
data	JsonArray		

JsonArray

Name	Type	Value	Description
type	Int		1:Roller Blinds 2:Venetian Blinds 3:Roman Blinds 4:Honeycomb Blinds 5:Shangri-La Blinds 6:Roller Shutter 7:Roller Gate 8:Awning 9:TDBU 10:Day&night Blinds 11:Dimming Blinds 12:Curtain 13:Curtain(Open Left) 14:Curtain(Open Right
operation	enum	0|1|2|5	0: Close/Down 1: Open/Up 2: Stop 5: Status query
currentPosition	Int		0-100
currentAngle	Int		0-180
currentState	enum	0|1|2|3|4	0: Not limit 1: Top-limit detected 2: Bottom-limit detected 3: Limits detected 4: 3rd -limit detected
voltageMode	enum	0|1	0: AC Motor

			1: DC Motor
batteryLevel	Int		Power voltage (DC motor only)
wirelessMode	enum	0|1|2|3	0: Uni-direction 1: Bi-direction 2: Bi-direction (mechanical limits) 3: Wi-Fi 4: Bi-direction(virtual percentage) 5: Others
RSSI	Int		Radio signal strength
chargingState	Int	0|1	1:Charging

JsonArray (for TDBU blinds only)

Name	Type	Value	Description
type	Int		9:TDBU
operation	enum	0|1|2|5	0: Close/Down 1: Open/Up 2: Stop 5: Status query
exist_subid			
currentPosition_T currentPosition_B	Int		0-100
currentAngle_T currentAngle_B	Int		0-180
currentState_T currentState_B	enum	0|1|2|3|4	0: Not limit 1: Top-limit detected 2: Bottom-limit detected 3: Limits detected 4: 3rd -limit detected
voltageMode	enum	0|1	0: AC Motor 1: DC Motor
batteryLevel_T batteryLevel_B	Int		Power voltage (DC motor only)
wirelessMode	enum	0|1|2|3	0: Uni-direction 1: Bi-direction 2: Bi-direction (mechanical limits) 3: Wi-Fi 4: Bi-direction(virtual percentage) 5: Others
RSSI	Int		Radio signal strength

Reference

```
// From Server_IP:32100 to 238.0.0.18:32101
{
	"msgType":"Report",
	"mac":"b4e62db274810049",
	"deviceType":"10000000",
	"msgID":"20201104110407805",
	"data":{
		"type":2,
		"operation":2,
		"currentPosition":75,
		"currentAngle":180,
		"currentState":3,
		"voltageMode":1,
		"batteryLevel":782,
		"wirelessMode":1,
		"RSSI":-50
	}
}
```

Reference (for TDBU blinds only)

```
// From Server_IP:32100 to 238.0.0.18:32101
{
	"msgType":"Report",
	"mac":"b4e62db27481005d",
	"deviceType":"10000001",
	"msgID":"20201104103250515",
	"data":{
		"type":9,
		"exist_subid":1,
		"operation_T":2,
		"operation_B":2,
		"currentPosition_T":9,
		"currentPosition_B":47,
		"currentState_T":3,
		"currentState_B":3,
		"voltageMode":1,
		"batteryLevel_T":834,
		"batteryLevel_B":834,
		"wirelessMode":1,
		"RSSI":-39
	}
}
```

Child-device status query

Client query using `**ReadDevice**' message. (UDP unicast [Server_IP:32100] or UPD multicast [238.0.0.18:32100])

Server response using `**ReadDeviceAck**', and returns the child-device current status. (UDP unicast [Client_IP:32101])

Only bi-directional devices supported (wireless Mode == 1).

Interface parameters:

Name	Type	Value	Description
msgType	String	**ReadDevice**	Child-device control
mac	String		
deviceType	String		10000000: 433Mhz radio motor
msgID	String		Timestamp

Interface response

Name	Type	Value	Description
msgType	String	**ReadDeviceAck**	Status report
mac	String		
deviceType	String		10000000: 433Mhz radio motor
msgID	String		Timestamp
data	JsonArray		

JsonArray

Name	Type	Value	
type	Int		1:Roller Blinds 2:Venetian Blinds 3:Roman Blinds 4:Honeycomb Blinds 5:Shangri-La Blinds 6:Roller Shutter 7:Roller Gate 8:Awning 10:Day&night Blinds 11:Dimming Blinds 12:Curtain 13:Curtain(Open Left) 14:Curtain(Open Right
operation	enum	0|1|2|5	0: Close/Down 1: Open/Up 2: Stop 5: Status query
currentPosition	Int		0-100

currentAngle	Int		0-180
currentState	enum	0|1|2|3|4	0: Not limit 1: Top-limit detected 2: Bottom-limit detected 3: Limits detected 4: 3rd -limit detected
voltageMode	enum	0|1	0: AC Motor 1: DC Motor
batteryLevel	Int		Power voltage (DC motor only)
wirelessMode	enum	0|1|2|3	0: Uni-direction 1: Bi-direction 2: Bi-direction (mechanical limits) 3: Wi-Fi 4: Bi-direction(virtual percentage) 5: Others
RSSI	Int		Radio signal strength
chargingState	Int	0|1	1:Charging

JsonArray (for TDBU blinds only)

Name	Type	Value	Description
type	Int		9:TDBU
operation_T operation_B	enum	0|1|2|5	0: Close/Down 1: Open/Up 2: Stop 5: Status query
exist_subid			
currentPosition_T currentPosition_B	Int		0-100
currentState_T currentState_B	enum	0|1|2|3|4	0: No limits 1: Top-limit detected 2: Bottom-limit detected 3: Limits detected 4: 3rd -limit detected
voltageMode	enum	0|1	0: AC Motor 1: DC Motor
batteryLevel_T batteryLevel_B	Int		Power voltage (DC motor only)
wirelessMode	enum	0|1|2|3	0: Uni-direction 1: Bi-direction 2: Bi-direction (mechanical limits) 3: Wi-Fi 4: Bi-direction(virtual percentage) 5: Others
RSSI	Int		Radio signal strength

Reference

Request data

```
// Form Client_IP:PORT to 238.0.0.18:32100 or From Client_IP:PORT to Server_IP:32100
{
        "msgType": "ReadDevice",
        "mac": "b4e62db274810049",
        "deviceType": "10000000",
        "msgID": "20201104105826121"
}
```

Respond data

```
// From Server_IP:32100 to Client_IP:PORT
{
        "msgType":"ReadDeviceAck",
        "mac":"b4e62db274810049",
        "deviceType":"10000000",
        "msgID":"20201104105826121",
        "data":{
                "type":2,
                "operation":2,
                "currentPosition":75,
                "currentAngle":180,
                "currentState":3,
                "voltageMode":1,
                "batteryLevel":782,
                "wirelessMode":1,
                "RSSI":-48
        }
}
```