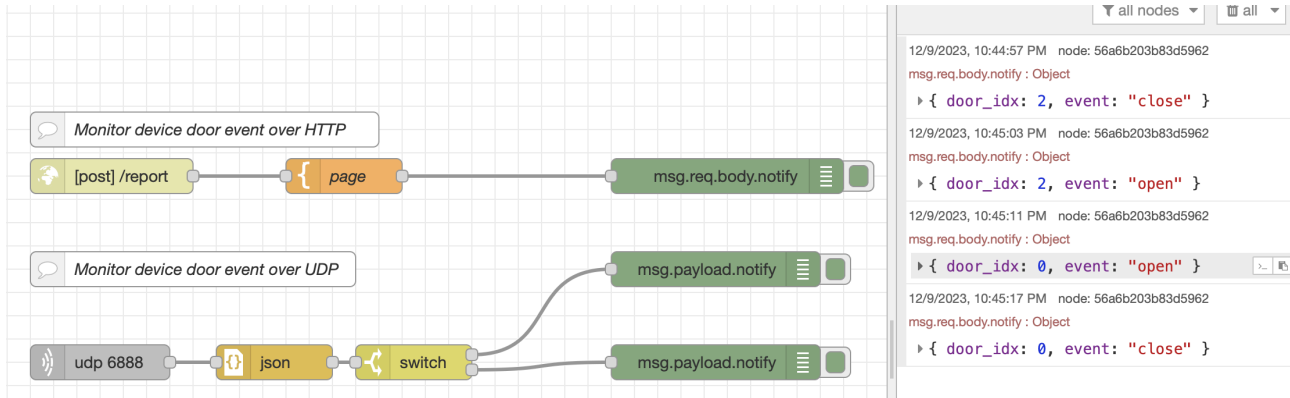


How to communicate with Tailwind iQ3 devices in Node-RED

There will be an example attached with this documentation. You can simply import that example then you will see such examples as below.

1. Example of device event notification:



In order to run notification feature, we need to set the local notification URL first.(Refer to 22.3.2 in local control protocol doc)

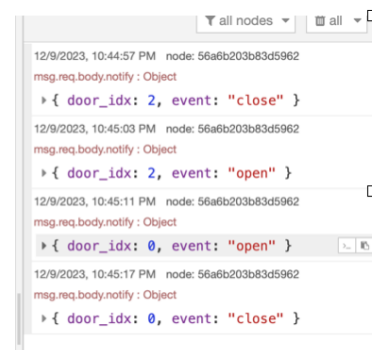
Curl Example	<pre>curl http://tailwind-30aea4801880.local/json -d '{"product": "iQ3", "version": "0.1", "data": {"type": "set", "name": "notify_url", "value": {"enable": 1, "proto": "http", "url": "http://192.168.3.61:8888/test"}}}' -H "TOKEN:869769"</pre> <pre>curl http://tailwind-30aea4801880.local/json -d '{"product": "iQ3", "version": "0.1", "data": {"type": "set", "name": "notify_url", "value": {"enable": 1, "proto": "udp", "url": "192.168.3.61:8888"}}}' -H "TOKEN:869769"</pre>
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We can choose HTTP or UDP for the protocol type. The notification message would be like this,

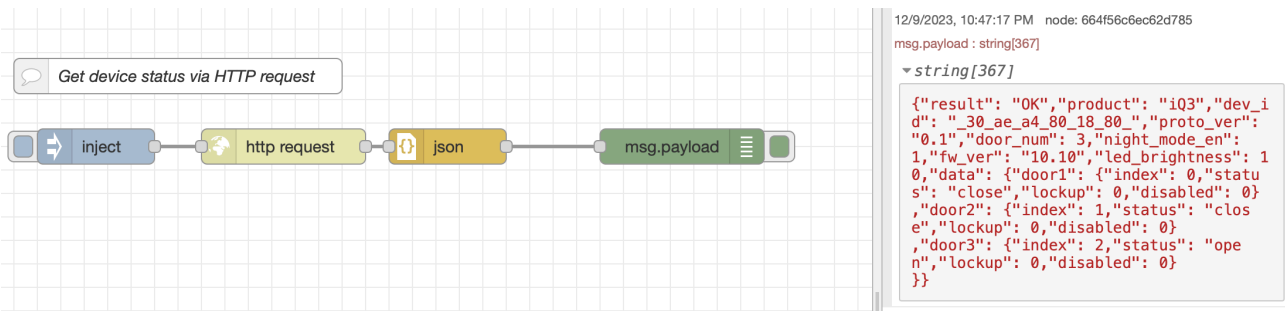
```
{ "result": "OK", "product": "iQ3", "dev_id": "_30_ae_a4_80_18_80_", "proto_ver": "0.1", "door_num": 3, "night_mode_en": 1, "fw_ver": "10.10", "led_brightness": 10, "data": { "door1": { "index": 0, "status": "close", "lockup": 0, "disabled": 0 }, "door2": { "index": 1, "status": "open", "lockup": 0, "disabled": 0 }, "door3": { "index": 2, "status": "close", "lockup": 0, "disabled": 0 }, "notify": { "door_idx": 2, "event": "open" } }
```

The key of "notify" is the object we want to use to handle the event. Others are all the current status of the device.

Each time door state changes, we can get an event with door index and event type.



2. Example of read device status:



This is a simple example, we just need to set the JSON in HTTP body and set the URL and TOKEN correctly as per the local control documentation.

22.3 JSON Command Format(supported since v9.96 firmware)

22.3.1 Read Device Status (For all kinds of devices)

CMD	Get device status, this is a general command for different types of devices.
HTTP URL	http://tailwind-30aea4801880.local/json
HTTP Method	POST
JSON Data	<pre>{ "version": "0.2", "data": { "type": "get", "name": "dev_st" } }</pre>
Response	<pre>iQ3 device response: {"result": "OK", "product": "iQ3", "dev_id": "_30_ae_a4_80_18_80", "proto_ver": "0.1", "door_num": 3, "night_mode_en": 0, "fw_ver": "9.94", "data": {"door1": {"status": "open", "lockup": 0, "enabled": 0}, "door2": {"status": "close", "lockup": 0, "enabled": 0}, "door3": {"status": "close", "lockup": 0, "enabled": 0}}} {"result": "OK", "product": "iQ3", "dev_id": "_30_ae_a4_80_18_80", "proto_ver": "0.2", "door_num": 3, "night_mode_en": 0, "fw_ver": "10.10", "led_brightness": 10, "data": {"door1": {"index": 0, "status": "open", "lockup": 0, "disabled": 0}, "door2": {"index": 1, "status": "close", "lockup": 0, "disabled": 0}, "door3": {"index": 2, "status": "close", "lockup": 0, "disabled": 0}}}</pre>

Delete

Cancel

Done

Properties

Method

POST

URL

http://tailwind-30aea4801880.local/json

Enable secure (SSL/TLS) connection

☐

Use authentication

☐

Enable connection keep-alive

☐

Use proxy

☐

Only send non-2xx responses to Catch node

☐

Disable strict HTTP parsing

☐

Return

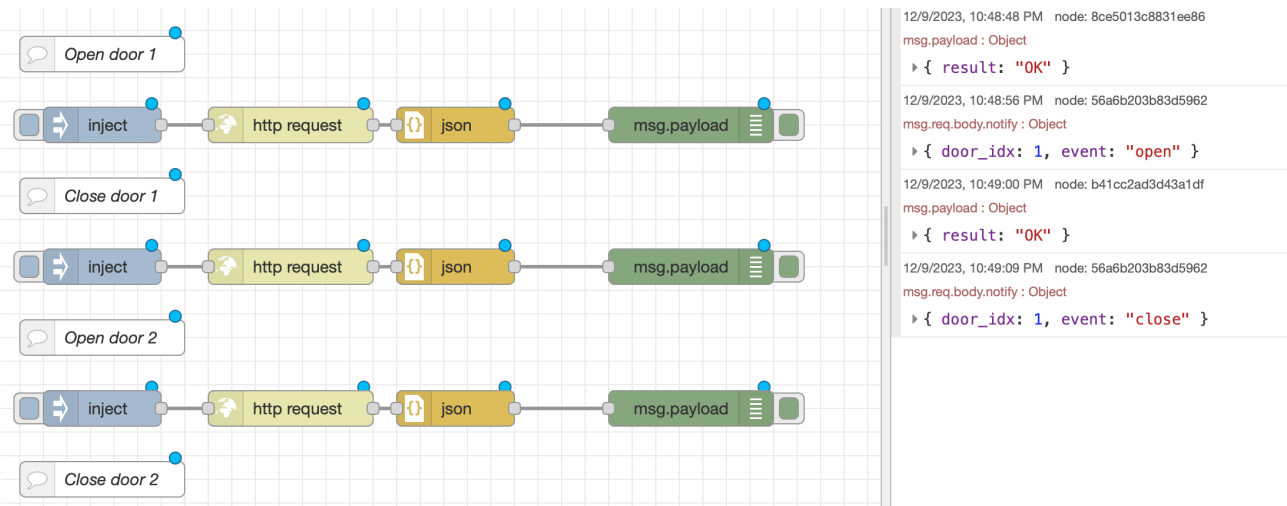
a UTF-8 string

Headers

TOKEN

869769

2. Example of open / close door:



Door control command is also very simple, set the JSON in HTTP body and set the URL and TOKEN correctly as per the local control documentation.

22.3.3 Open or Close Door Command (For iQ3 devices, supported since v9.96)

CMD	Open / Close Door Command
HTTP URL	http://tailwind-30aea4801880.local/json
HTTP Method	POST
JSON Data	<pre>{ "product": "iQ3", "version": "0.1", "data": { "type": "set", "name": "door_op", "value": { "door_idx": 1, "cmd": "open", } } }</pre>
Response	<pre>{ "result": "OK" }</pre> <pre>{ "result": "Fail", "message": "xxxxxx" }</pre>
Device Action	If door is not open, trigger IO pulse to open the door.
Curl Example	curl http://tailwind-30aea4801880.local/json -d '{"product": "iQ3", "version": "0.1", "data": {"type": "set", "name": "door_op", "value": {"door_idx": 1, "cmd": "open"}}}' -H "TOKEN:869769"

Edit http request node

Delete Cancel Done

Properties

Method POST

URL http://tailwind-30aea4801880.local/json

☐ Enable secure (SSL/TLS) connection

☐ Use authentication

☐ Enable connection keep-alive

☐ Use proxy

☐ Only send non-2xx responses to Catch node

☐ Disable strict HTTP parsing

Return a UTF-8 string

Headers

TOKEN 869769