

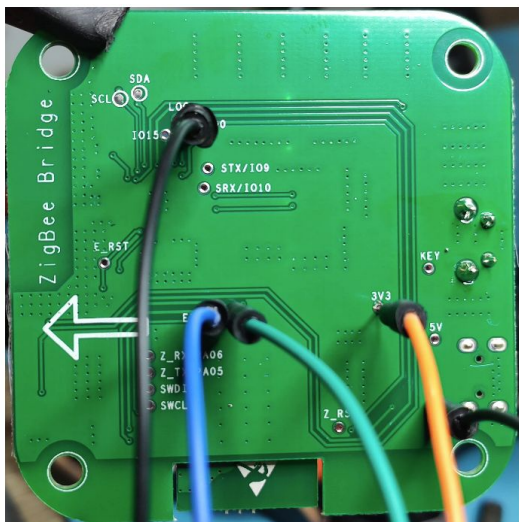
# Sonoff ZigbeeBridge

## 설정방법

2022.09.05.

# Sonoff ZigbeeBridge Tasmota F/W 작업방법

[https://zigbee.blakadder.com/Sonoff\\_ZBBridge.html](https://zigbee.blakadder.com/Sonoff_ZBBridge.html) 참고하여, sonoff zigbeebridge 핀배열 맞추는 후 tasmotizer로 release탭의 tasmota-zbbridge.bin 선택하여 f/w update



ZbBridge	Adapter
ETX	FX
EPX	TX
IO0	GND
GND	GND
3v3	3V3/VCC



# EZSP 추가 펌웨어 다운로드

아래 이미지에 표기된 `ncp-uart-sw_3.7.8_115200.ota` 클릭하여 다운로드

Download [tasmota-zbbridge](#), a unique binary built specifically for ZBBridge and flash it using your favorite flashing software.

When the ZbBridge is flashed with Tasmota, **disconnect all breadboard wires** and power the board using its USB port with a 5V 1A power supply. Configure Wi-Fi [over Tasmota AP](#) (you cannot configure the device over serial with this binary). After it is connected to your network access the webUI again.

## Flash Zigbee module

Download Zigbee module firmware `ncp-uart-sw_6.7.8_115200.ota` from Tasmota GitHub located in

[Tasmota/tools/fw\\_SonoffZigbeeBridge-esp8266](#).

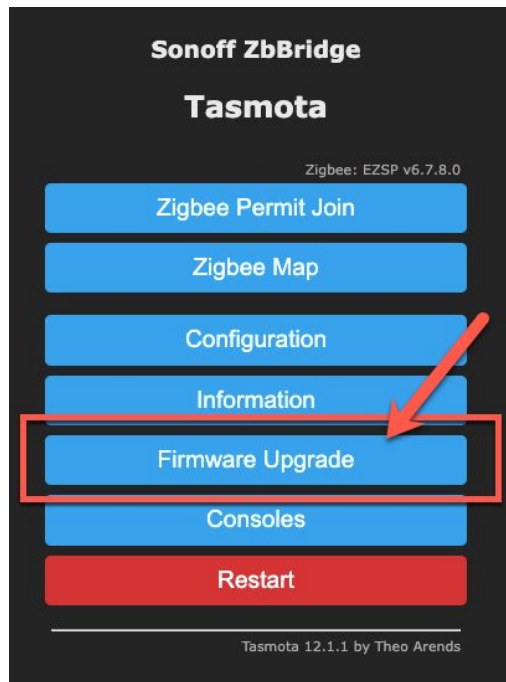
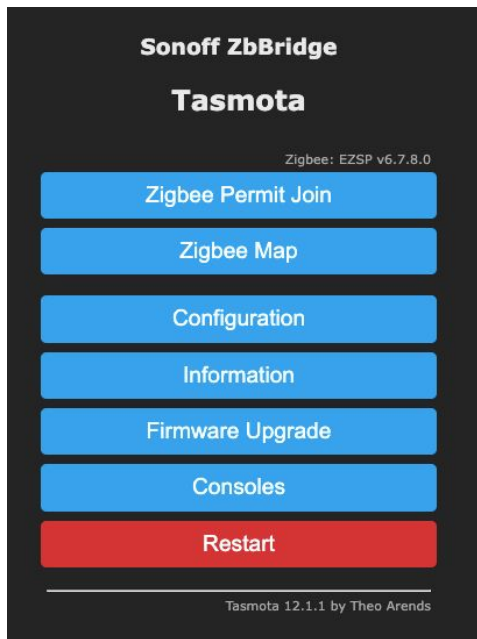
Go to **Firmware Upgrade** and next to "Upgrade by file upload" use the *Choose File* button and select Zigbee module firmware you downloaded ( `ncp-uart-sw_6.7.8_115200.ota` ).

**Sonoff ZbBridge Module**

**Tasmota**

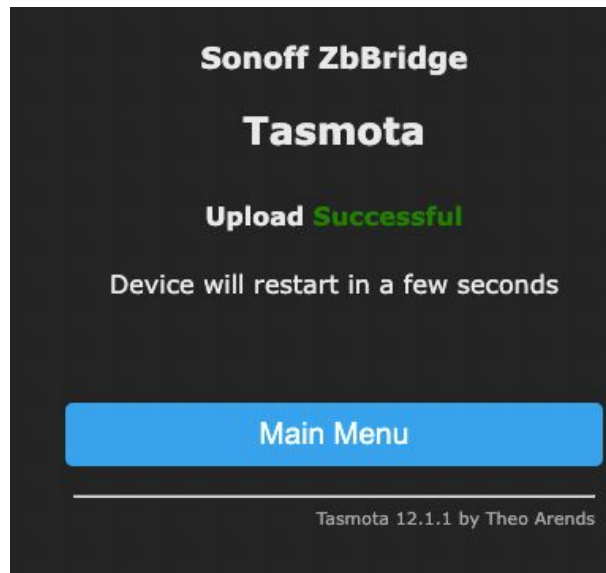
# EZSP 추가 펌웨어 업데이트 절차

tasmota 웹페이지에 접근하여, Firmware Upgrade 버튼 클릭



# EFR32 EZSP 펌웨어 추가 업로드

다운로드 받은 펌웨어를  
[파일 선택]하여 Start upgrade



# 정상적인 펌웨어 작업 완료시에 tasmota콘솔 로그 화면

EZSP 디바이스의 부팅메시지와 지그비 코디네이터 실행 콘솔로그가 찍힘

Sonoff ZbBridge

Tasmota

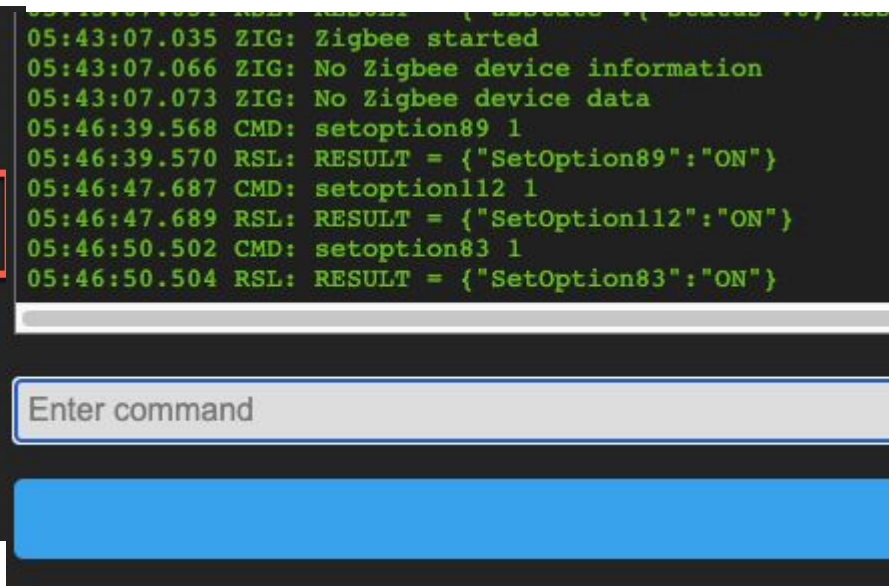
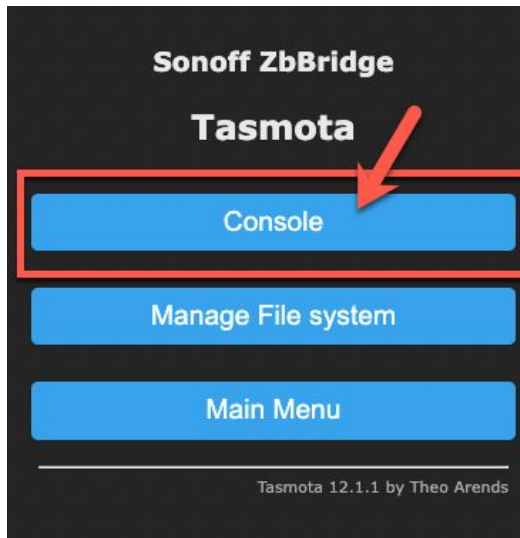
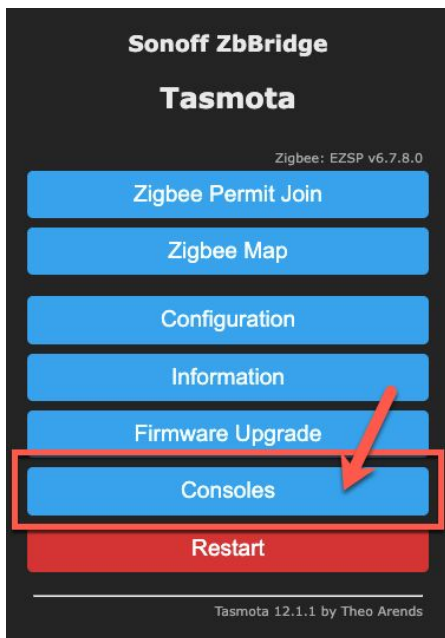
```
00:00:02.003 HTTP: web server active on tasmota-9DF5F5-5621 with IP address 192.168.1.144
05:42:34.011 RSL: INFO1 = {"Info1":{"Module":"Sonoff ZbBridge","Version":"12.1.1(zbbridge)","FallbackTopic":"cmnd/DVES_9DF5F5_fb/", "GroupTopic":"cmnd/tasmtas/"}}
05:42:34.012 RSL: INFO2 = {"Info2":{"WebServerMode":"Admin","Hostname":"tasmota-9DF5F5-5621","IPAddress":"192.168.1.144"}}
05:42:34.013 RSL: INFO3 = {"Info3":{"RestartReason":"Software/System restart","BootCount":3}}
05:42:37.455 QPC: Reset
05:42:39.415 RSL: STATE = {"Time":"2022-09-05T05:42:38","Uptime":"0T00:00:09","UptimeSec":9,"Vcc":3.504,"Heap":29,"SleepMode":"Dynamic","Sleep":50,"LoadAvg":19,"MqttCount":0,"Wifi":{"AP":1,"SSID":"BarunsonStay","BSSID":"EC:08:6B:DE:00:00:00"},"EZSP":{"Status":1,"Message":"EFR32 EZSP booted","RestartReason":"Power-on","Code":2}}
05:42:46.035 ZIG: Resetting EZSP device
05:42:47.306 RSL: RESULT = {"ZbState":{"Status":1,"Message":"EFR32 EZSP booted","RestartReason":"Power-on","Code":2}}
05:42:47.360 RSL: RESULT = {"ZbState":{"Status":55,"Version":"6.7.8.0","Protocol":8,"Stack":2}}
05:42:47.361 RSL: RESULT = {"ZbState":{"Status":3,"Message":"Configured, starting coordinator"}}
05:42:48.662 RSL: RESULT = {"ZbState":{"Status":2,"Message":"Resetting configuration"}}
05:43:04.187 ZIG: Resetting EZSP device
05:43:05.455 RSL: RESULT = {"ZbState":{"Status":1,"Message":"EFR32 EZSP booted","RestartReason":"Power-on","Code":2}}
05:43:05.509 RSL: RESULT = {"ZbState":{"Status":55,"Version":"6.7.8.0","Protocol":8,"Stack":2}}
05:43:05.510 RSL: RESULT = {"ZbState":{"Status":3,"Message":"Configured, starting coordinator"}}
05:43:06.750 ZIG: Factory reset EZSP device
05:43:06.978 ZIG: Subscribe to group 0 'ZbListen0 0'
05:43:07.034 RSL: RESULT = {"ZbState":{"Status":0,"Message":"Started"}}
05:43:07.035 ZIG: Zigbee started
05:43:07.066 ZIG: No Zigbee device information
05:43:07.073 ZIG: No Zigbee device data
```

Enter command

Consoles

# 지그비 디바이스 MQTT 개별 메시지 PUBLISH 설정 (콘솔)

SetOption89 1      Setoption112 1      SetOption83 1





# 지그비 디바이스 페어링 (콘솔)

메인화면에서 Zigbee Permit Join을 누르거나, 콘솔들어가서 `zbpermitjoin 1` 엔터

The image shows the Sonoff ZbBridge Tasmota interface and its console. The interface on the left has a dark background with the title "Sonoff ZbBridge Tasmota" and "Device 0xFAEE". Below the title are three blue buttons: "Zigbee Permit Join", "Zigbee Map", and "Configuration". A red arrow points to the "Zigbee Permit Join" button. The console on the right shows the command `zbpermitjoin 1` entered, followed by a series of log messages including `CMD: setoption83 1`, `RSL: RESULT = {"SetOption83":"ON"}`, and `RSL: STATE = {"Time":"2022-09-05T05:47:38.417"}`. The console also displays various Zigbee device status messages and sensor data.

**Sonoff ZbBridge Tasmota**

Device 0xFAEE

Zigbee Permit Join

Zigbee Map

Configuration

```
05:46:50.502 CMD: setoption83 1
05:46:50.504 RSL: RESULT = {"SetOption83":"ON"}
05:47:38.417 RSL: STATE = {"Time":"2022-09-05T05:47:38.417"}

zbpermitjoin 1

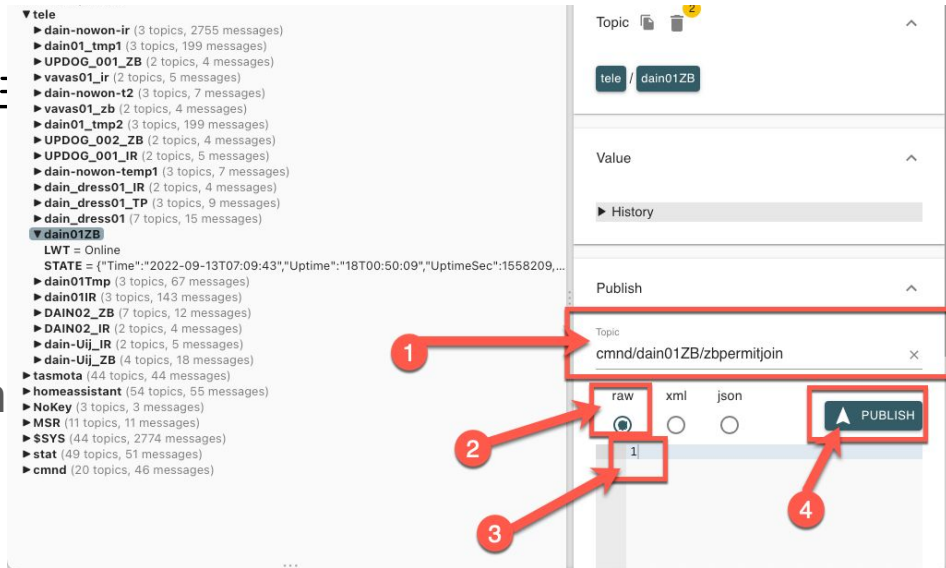
05:51:31.697 Zigbee: 5738 7.8.0
05:51:31.700 RSL: RESULT = {"ZbBind":{"Device":"0xFAEE","Status":0,"StatusMessage":"SUCCESS"}}
05:51:34.521 RSL: SENSOR = {"ZbReceived":{"Device":"0xFAEE","AppVersion":76,"BatteryPercentage":78,"Endpoint":1,"LinkQuality":97}}
05:51:35.721 RSL: SENSOR = {"ZbReceived":{"Device":"0xFAEE","AppVersion":76,"BatteryPercentage":78,"Endpoint":1,"LinkQuality":97}}
05:51:36.221 RSL: SENSOR = {"ZbReceived":{"Device":"0xFAEE","AppVersion":76,"BatteryPercentage":78,"Endpoint":1,"LinkQuality":97}}
05:51:36.441 RSL: SENSOR = {"ZbReceived":{"Device":"0xFAEE","AppVersion":76,"BatteryPercentage":78,"Endpoint":1,"LinkQuality":97}}
05:51:37.031 RSL: SENSOR = {"ZbReceived":{"Device":"0xFAEE","AppVersion":76,"BatteryPercentage":78,"Endpoint":1,"LinkQuality":97}}
05:51:37.451 RSL: SENSOR = {"ZbReceived":{"Device":"0xFAEE","AppVersion":76,"BatteryPercentage":78,"Endpoint":1,"LinkQuality":97}}
05:51:37.711 RSL: SENSOR = {"ZbReceived":{"Device":"0xFAEE","AppVersion":76,"BatteryPercentage":78,"Endpoint":1,"LinkQuality":97}}
05:51:39.491 RSL: SENSOR = {"ZbReceived":{"Device":"0xFAEE","AppVersion":76,"BatteryPercentage":78,"Endpoint":1,"LinkQuality":97}}
05:51:39.701 RSL: SENSOR = {"ZbReceived":{"Device":"0xFAEE","AppVersion":76,"BatteryPercentage":78,"Endpoint":1,"LinkQuality":97}}
05:51:39.751 RSL: SENSOR = {"ZbReceived":{"Device":"0xFAEE","AppVersion":76,"BatteryPercentage":78,"Endpoint":1,"LinkQuality":97}}
05:51:40.276 RSL: RESULT = {"ZbBind":{"Device":"0xFAEE","Status":0,"StatusMessage":"SUCCESS"}}
05:51:41.576 ZIG: Zigbee Devices Data saved in EEPROM (41 bytes)
05:51:41.739 ZIG: auto-bind `ZbBind {"Device":"0xFAEE","Endpoint":1,"Cluster":"0x0500"}
05:51:42.498 RSL: RESULT = {"ZbBind":{"Device":"0xFAEE","Status":0,"StatusMessage":"SUCCESS"}}
05:51:42.710 RSL: SENSOR = {"ZbReceived":{"Device":"0xFAEE","AppVersion":76,"BatteryPercentage":78,"Endpoint":1,"LinkQuality":97}}
05:51:43.082 RSL: SENSOR = {"ZbReceived":{"Device":"0xFAEE","AppVersion":76,"BatteryPercentage":78,"Endpoint":1,"LinkQuality":97}}
05:51:43.731 ZIG: auto-bind `ZbSend {"Device":"0xFAEE","Config":{"ZoneStatus":{"MinInterval":1,"MaxInterval":3600}}}
05:51:44.798 RSL: RESULT = {"ZbResponse":{"Device":"0xFAEE","Command":"0500106","Status":130,"StatusMessage":"UNSUP_GENERAL_COMMAND","Endpoint":1,"LinkQuality":100}}
```



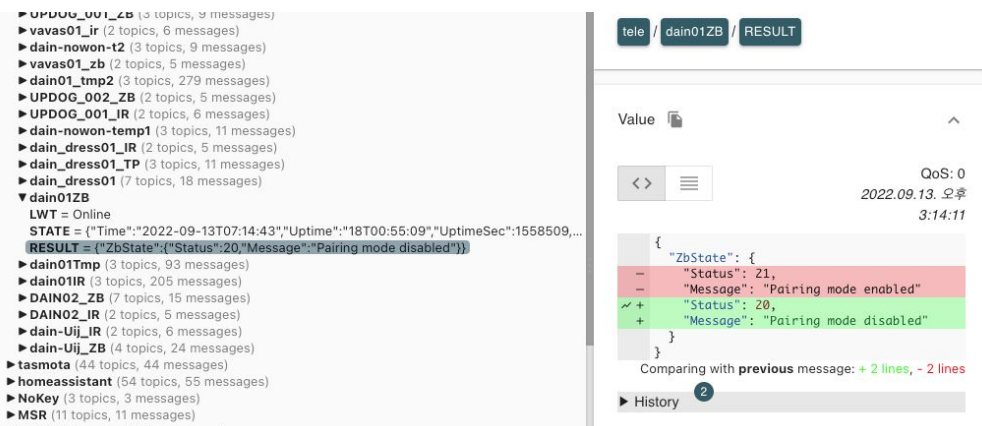
# 지그비 디바이스 페어링 (원격)

mqtt explorer들여간 후 아래와 같이 입력

- 우측 탭에서 **PUBLISH**
- Topic에  
cmnd/지그비디바이스이름/zbpermitjoin
- raw에 체크박스
- 하단 입력칸에 1 입력 (공백없이)
- **PUBLISH**버튼 클릭



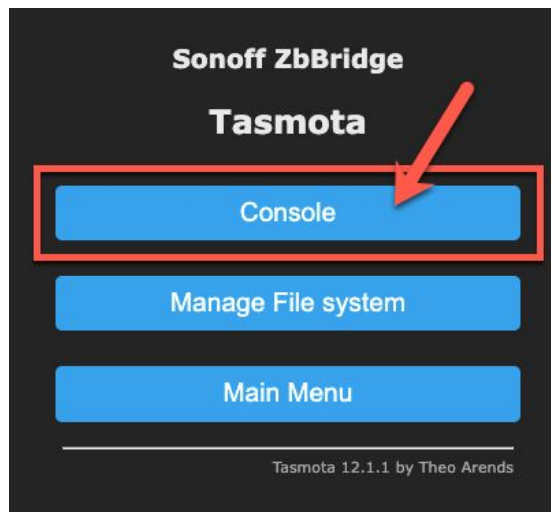
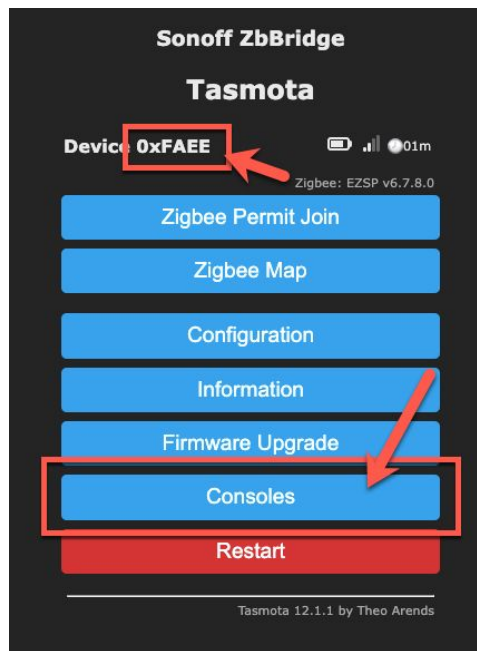
\* 페어링모드 진입시에  
tele/지그비디바이스이름/RESULT에  
Pairing mode enabled로 나오게됨  
특정 시간 이후 disabled로 변경됨



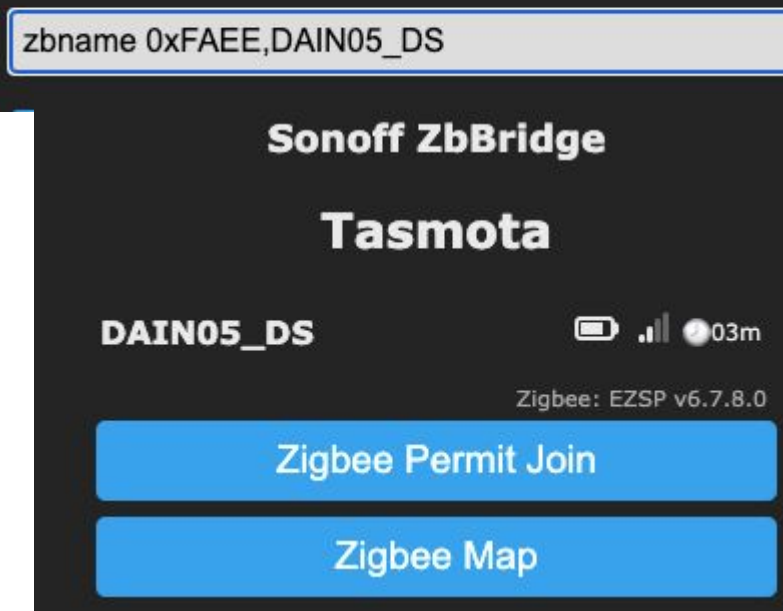
# 지그비 디바이스 이름 변경

zname 0xFAEE,DAIN05\_DS

위와 같은 커맨드 콘솔에 입력 콤마(,)뒤에는 공백



```
05:52:38.423 RSL: STATE = { "Time": "2022-09-05T05:52:38.423Z", "zname": "0xFAEE,DAIN05_DS" }  
05:55:14.330 CMD: zname 0xFAEE,DAIN05_DS  
05:55:14.334 RSL: RESULT = { "0xFAEE": { "Name": "DAIN05_DS" } }  
05:55:16.371 ZIG: Zigbee Devices Data saved in E
```



# 지그비 디바이스 이름 변경 (원격)

mqtt explorer들여간 후 아래와 같이 입력

- 우측 탭에서 **PUBLISH**

- Topic에

cmnd/지그비디바이스이름/zbname

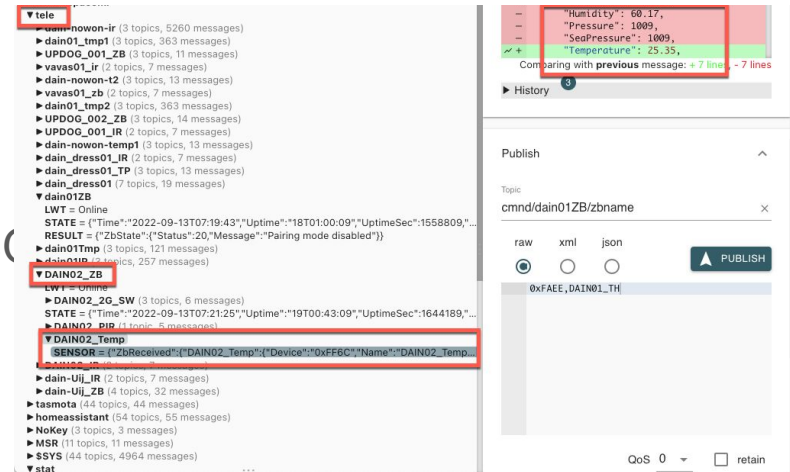
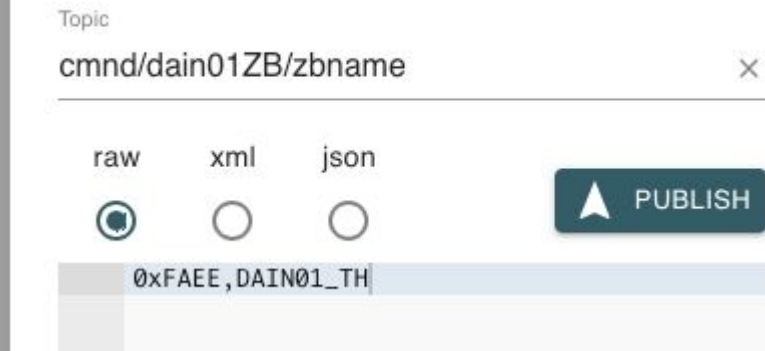
- raw에 체크박스

- 하단 입력칸에 16진수로 임의할당된 디바이스이름,변경이름 입력 (공백없이)

(예: 0xFAEE,DAIN99\_TH) ← 콤마뒤에공백없게

- **PUBLISH**버튼 클릭

\* 이후 센서데이터가 한번이라도 올라오게 되면  
tele/지그비디바이스이름/온습도계이름/SENS(에 온/습도 데이터가 표현됨



# 광주첨단점 예시 (E81B로 센서값이 지정되어, zbname으로 변경)

cmnd/dain01ZB/zbname 0xE81B,DAIN01\_TH

## ▼ tele

- ▶ dain-nowon-ir (3 topics, 3193 messages)
- ▶ dain01\_tmp1 (3 topics, 511 messages)
- ▶ UPDOG\_001\_ZB (3 topics, 13 messages)
- ▶ vavas01\_ir (2 topics, 9 messages)
- ▶ dain-nowon-t2 (3 topics, 19 messages)
- ▶ vavas01\_zb (2 topics, 10 messages)
- ▶ dain01\_tmp2 (3 topics, 511 messages)
- ▶ UPDOG\_002\_ZB (3 topics, 35 messages)
- ▶ UPDOG\_001\_IR (2 topics, 10 messages)
- ▶ dain-nowon-temp1 (3 topics, 17 messages)
- ▶ dain\_dress01\_IR (2 topics, 10 messages)
- ▶ dain\_dress01\_TP (3 topics, 17 messages)
- ▶ dain\_dress01 (7 topics, 20 messages)

## ▼ dain01ZB

LWT = Online

RESULT = {"ZbBind":{"Device":"0xE81B","Status":0,"StatusMessage":"SUCCESS"}}}

▶ DAIN01\_MS (1 topic, 30 messages)

STATE = {"Time":"2022-09-13T08:24:43","Uptime":"18T02:05:09","UptimeSec":1562709,...}

## ▼ E81B

SENSOR = {"ZbReceived":{"0xE81B":{"Device":"0xE81B","ConfigResponse":{"Endpoint...}}

▶ dain01Tmp (3 topics, 171 messages)

▶ dain01IR (3 topics, 128 messages)

▶ DAIN02\_ZB (7 topics, 32 messages)

▶ DAIN02\_IR (2 topics, 10 messages)

## History

Publish

Topic

cmnd/dain01ZB/zbname

raw

xml

json



PUBLISH

0xE81B,DAIN01\_TH

# 지그비 디바이스 이름 지정 규칙

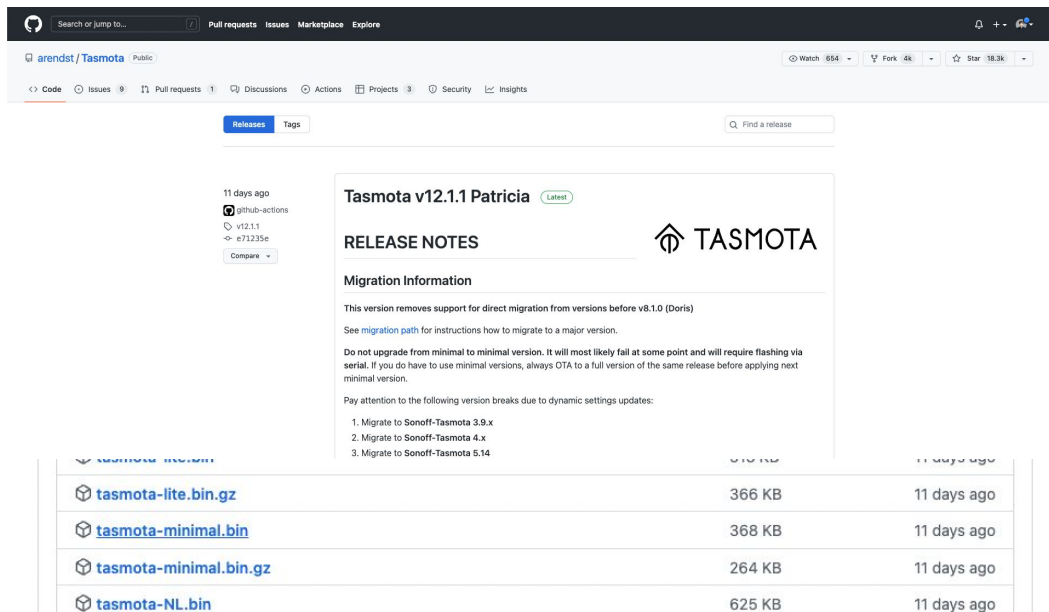
모든 사이트명은 대문자로 입력

사이트명+순번 (대문자)	구분 자	디바이스명	순번	조합결과
UPDOG05	—	DS (도어센서)	01	UPDOG05_DS01
UPDOG07	—	MS (모션센서)	03	UPDOG07_MS03
UPDOG08	—	TH (온습도센서)	02	UPDOG08_TH02
UPDOG23	—	SW (전등스위치)	02	UPDOG23_SW02
DAIN03	—	TH (온습도센서)	01	DAIN03_TH01
DAIN03	—	TH (온습도센서)	02	DAIN03_TH02

# [참고] 기존 펌웨어 초기화

<https://github.com/arendst/Tasmota/releases>

접속 후, 하단 Assets에서 tasmota-minimal.bin 다운로드



The screenshot shows the GitHub release page for Tasmota v12.1.1. The page includes a sidebar with navigation links (Code, Issues, Pull requests, Discussions, Actions, Projects, Security, Insights) and a search bar. The main content area displays the release notes and a table of assets.

**Tasmota v12.1.1 Patricia** Latest

**RELEASE NOTES**

**Migration Information**

This version removes support for direct migration from versions before v8.1.0 (Doris). See [migration path](#) for instructions how to migrate to a major version.

Do not upgrade from minimal to minimal version. It will most likely fail at some point and will require flashing via serial. If you do have to use minimal versions, always OTA to a full version of the same release before applying next minimal version.

Pay attention to the following version breaks due to dynamic settings updates:

1. Migrate to Sonoff-Tasmota 3.9.x
2. Migrate to Sonoff-Tasmota 4.x
3. Migrate to Sonoff-Tasmota 5.14

Asset	Size	Time
<a href="#">tasmota-lite.bin.gz</a>	366 KB	11 days ago
<a href="#">tasmota-minimal.bin</a>	368 KB	11 days ago
<a href="#">tasmota-minimal.bin.gz</a>	264 KB	11 days ago
<a href="#">tasmota-NL.bin</a>	625 KB	11 days ago

## [참고] 기존 펌웨어 초기화

minimal버전 firmware 덮어쓰우기 → 이후 tasmota-zbbridge.bin 파일  
펌웨어다시업로드

