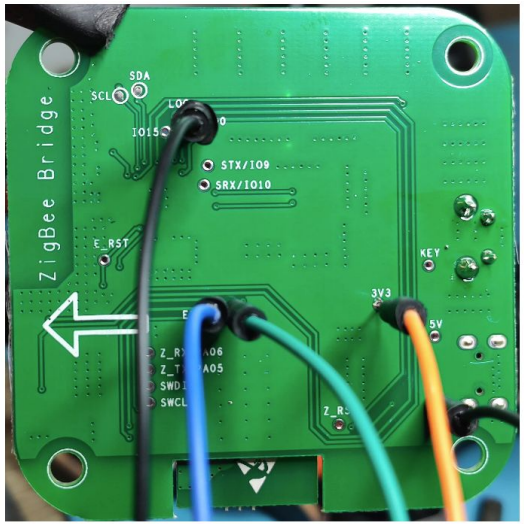
Sonoff ZigbeeBridge
설정방법

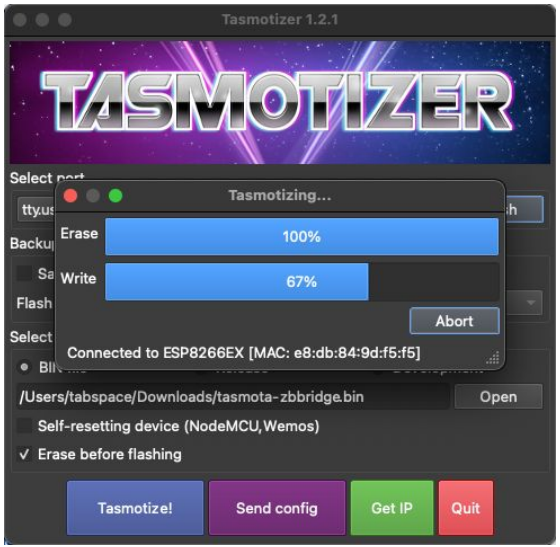
2022.09.05.

Sonoff ZigbeeBridge Tasmota F/W 작업방법

https://zigbee.blakadder.com/Sonoff_ZBBridge.html 참고하여, sonoff zigbeebridge 핀배열 맞춘 후 tasmotizer로 release탭의 tasmota-zbbridge.bin선택하여 f/w update

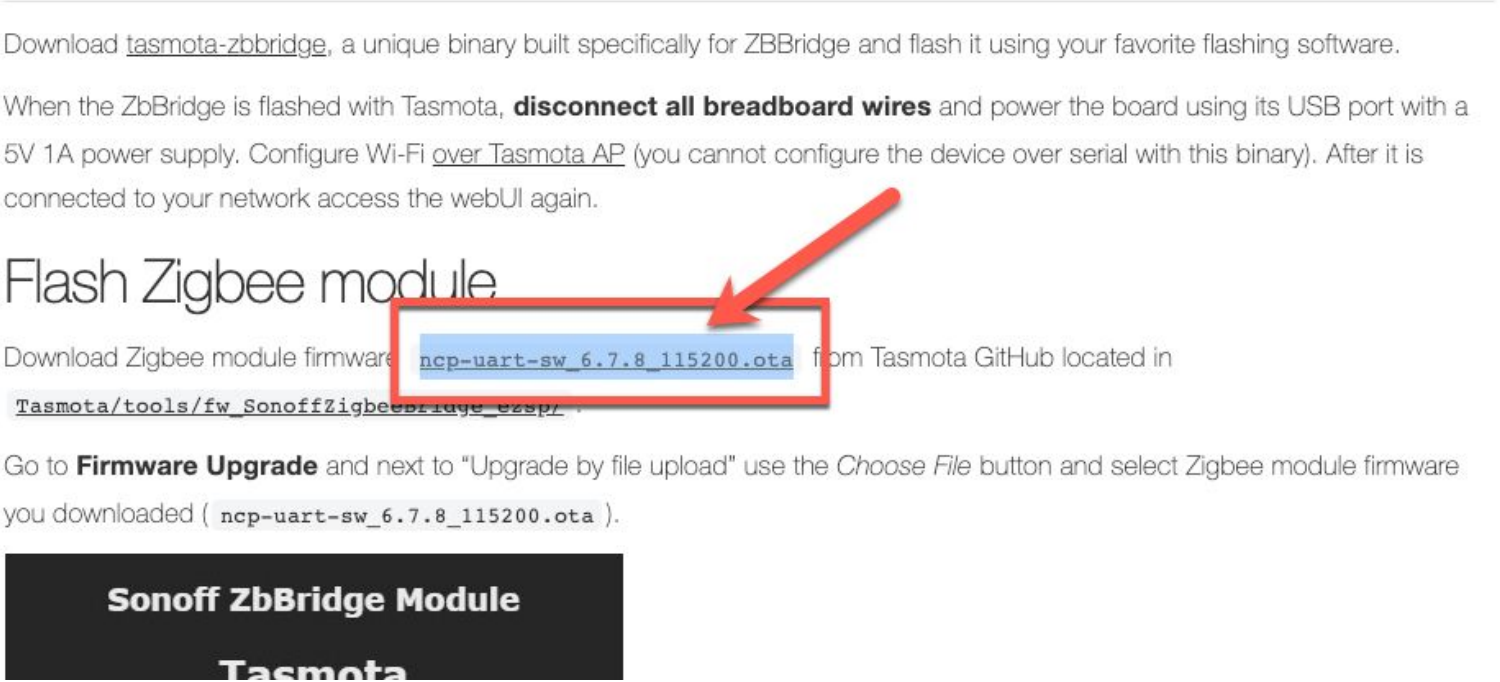


ZbBridge	Adapter
ETX	RX
ERX	TX
IO0	GND
GND	GND
3v3	3V3/VCC



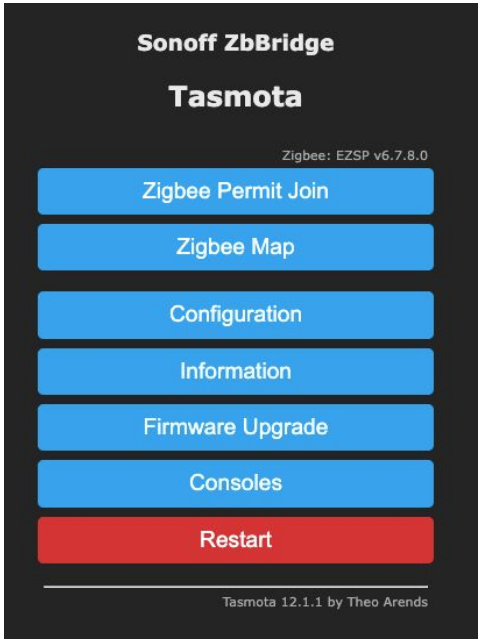
EZSP 추가 펌웨어 다운로드

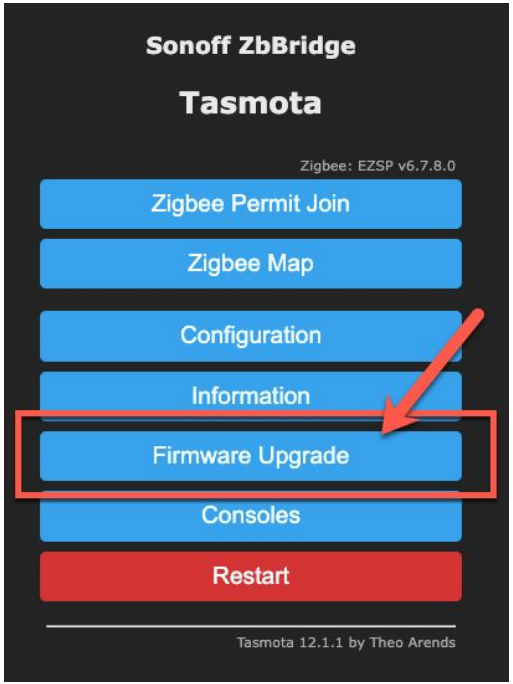
아래 이미지에 표기된 ncp-uart-sw_3.7.8_115200.ota 클릭하여 다운로드



EZSP 추가 펌웨어 업데이트 절차

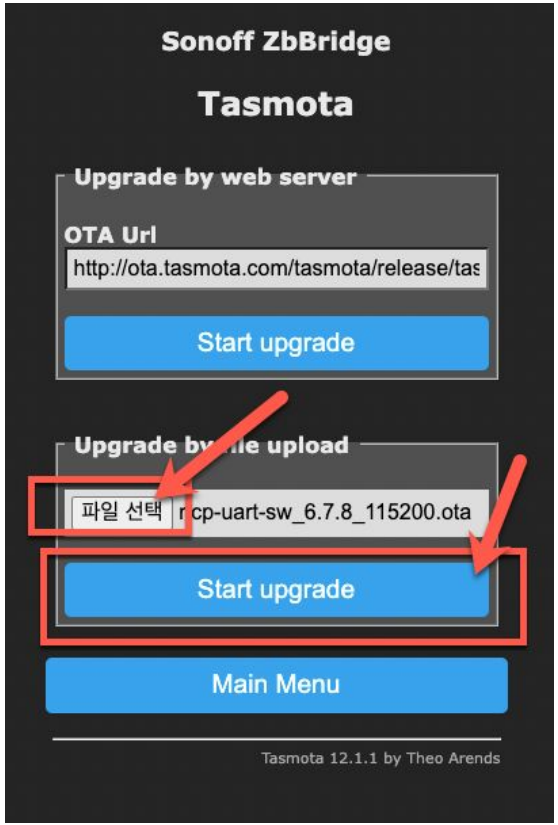
tasmota 웹페이지에 접근하여, Firmware Upgrade 버튼 클릭

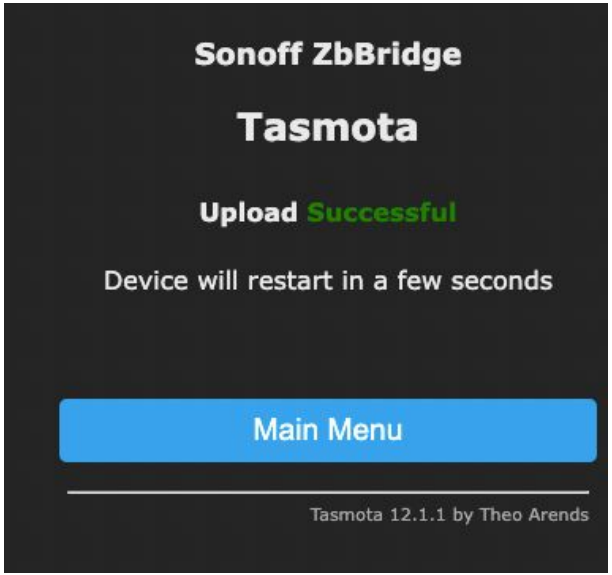




EFR32 EZSP 펌웨어 추가 업로드

다운로드 받은 펌웨어를
[파일 선택]하여 Start upgrade



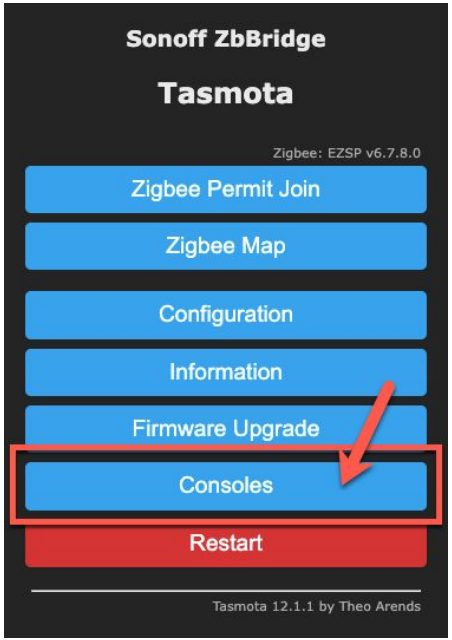


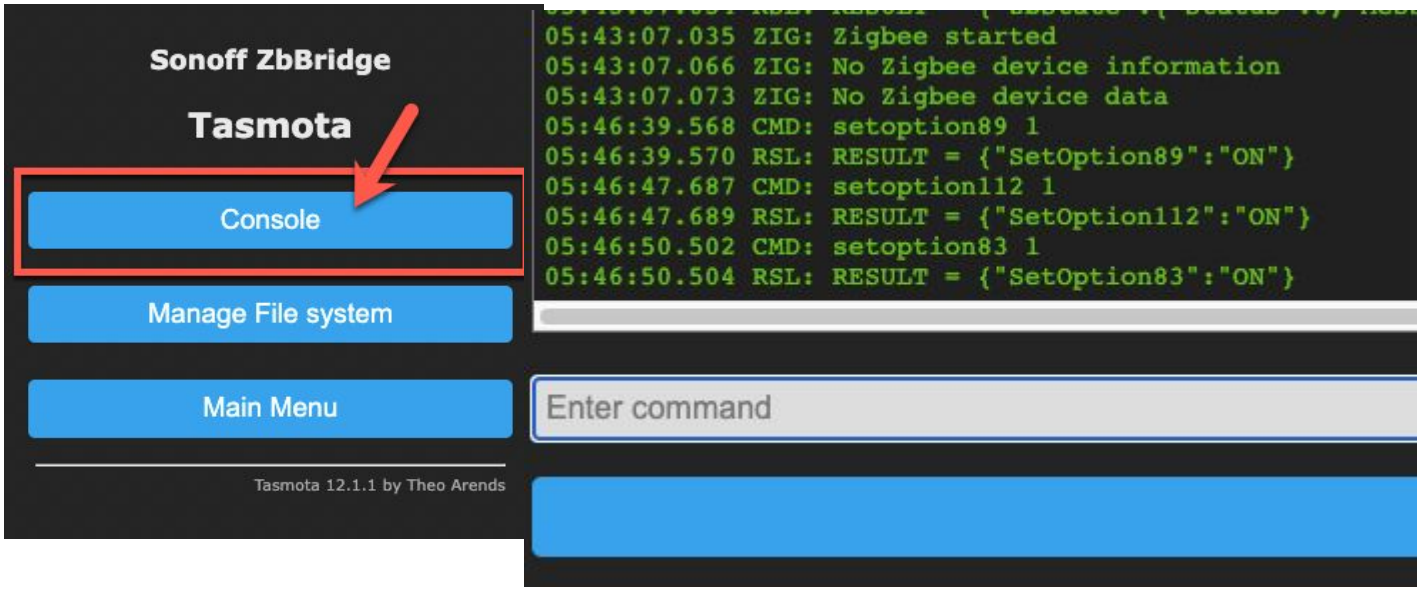
정상적인 펌웨어 작업 완료시에 tasmota콘솔 로그 화면

EZSP 디바이스의 부팅메시지와 지그비 코디네이터 실행 콘솔로그가 찍힘

지그비 디바이스 MQTT개별메시지 PUBLISH 설정 (콘솔)

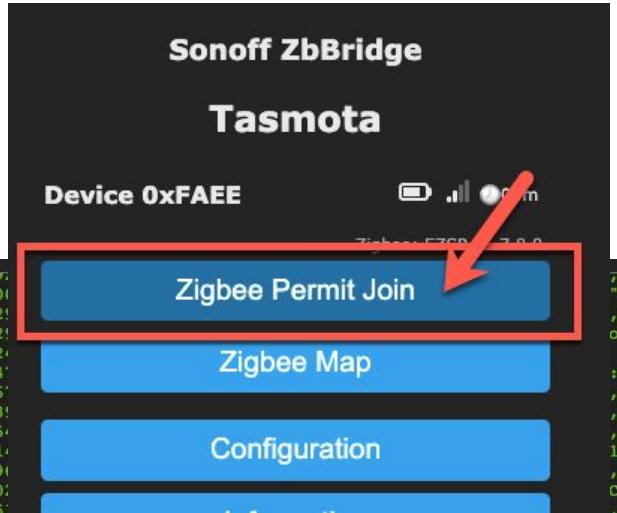
SetOption89 1 Setoption112 1 SetOption83 1

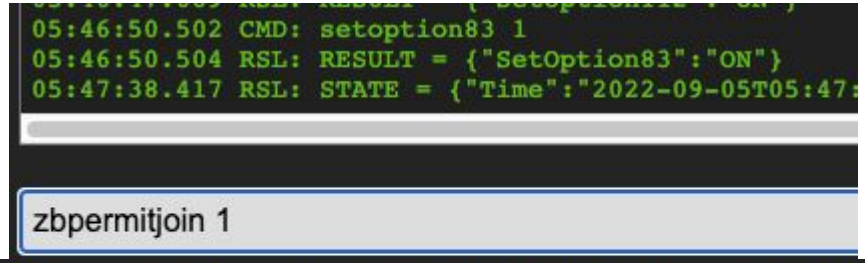




지그비 디바이스 페어링 (콘솔)

메인화면에서 Zigbee Permit Join을 누르거나, 콘솔들어가서 zbpermitjoin 1 엔터



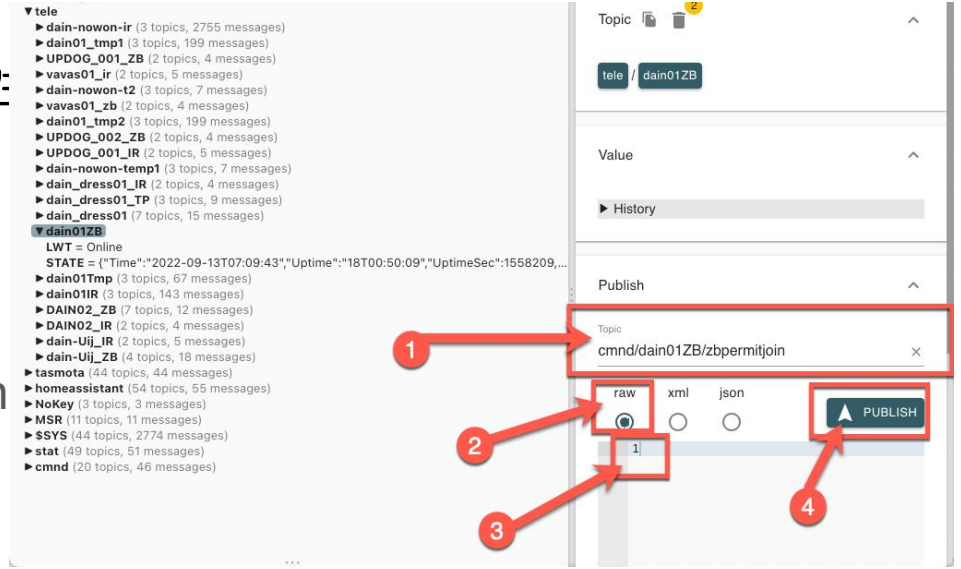


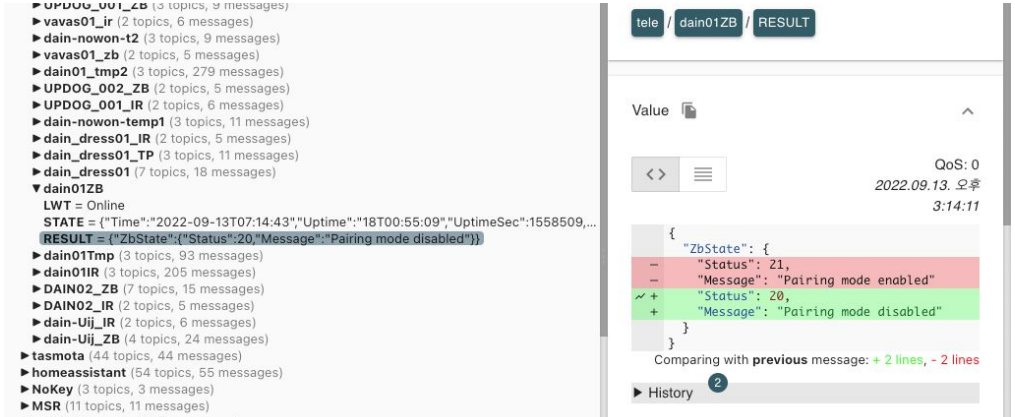

```
05:51:31.70( "Endpoint":"0x01","ProfileId":"0x0104","DeviceId":"0x0402","DeviceVersion":0,"InClusters":["0x0000","0x0001","0x00
05:51:34.52( ,"ZoneType":21,"BatteryPercentage":78,"Endpoint":1,"LinkQuality":97}}}
05:51:35.72( of Device 0xFAEE
05:51:36.22(
05:51:36.44( :"0500_04","Status":0,"StatusMessage":"SUCCESS","Endpoint":1,"LinkQuality":97}}
05:51:36.66( ,"AppVersion":76,"BatteryPercentage":78,"Endpoint":1,"LinkQuality":97}}}
05:51:37.03( ,"BatteryVoltage":2.8,"BatteryPercentage":78,"Endpoint":1,"LinkQuality":97}}}
05:51:37.45( ,"0500<01":"15000000","BatteryPercentage":78,"Endpoint":1,"LinkQuality":100}}}
05:51:37.71( 1 of Device 0xFAEE
05:51:39.49( ,"ModelId":"RH3001","Manufacturer":"TUYATEC-ktge2vqt","BatteryPercentage":78,"Endpoint":1,"LinkQuality":97}}}
05:51:39.70( Cluster":"0x0001"}`
05:51:39.75( ,"ModelId":"RH3001","Manufacturer":"TUYATEC-ktge2vqt","BatteryPercentage":78,"Endpoint":1,"LinkQuality":94}}}
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":{"0xFAEE":{"Device":"0xFAEE","AppVersion":76,"BatteryPercentage":78,"Endpoint":1,"LinkQuality":97}}}
05:51:43.082 RSL: SENSOR = {"ZbReceived":{"0xFAEE":{"Device":"0xFAEE","BatteryVoltage":2.8,"BatteryPercentage":78,"Endpoint":1,"LinkQuality":102}}}
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":"0500!06","Status":130,"StatusMessage":"UNSUP_GENERAL_COMMAND","Endpoint":1,"LinkQuality":100}}
```

지그비 디바이스 페어링 (원격

mqtt explorer들어간 후 아래와 같이 입력
- 우측 탭에서 PUBLISH
- Topic에
  cmnd/지그비디바이스이름/zbpermitjoin
- raw에 체크박스
- 하단 입력칸에 1 입력 (공백없이)
- PUBLISH버튼 클릭

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

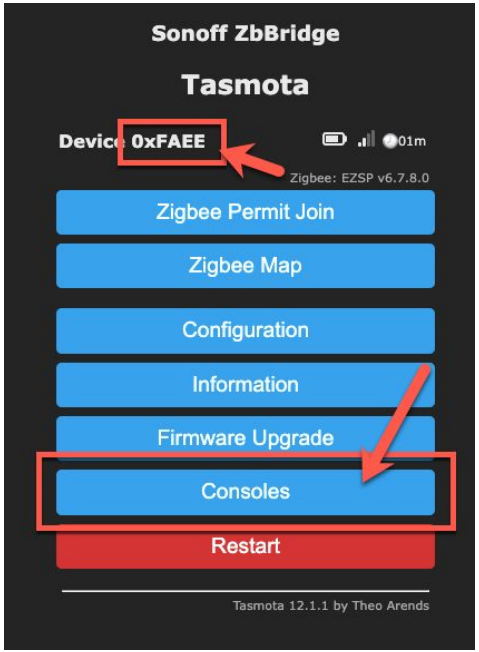


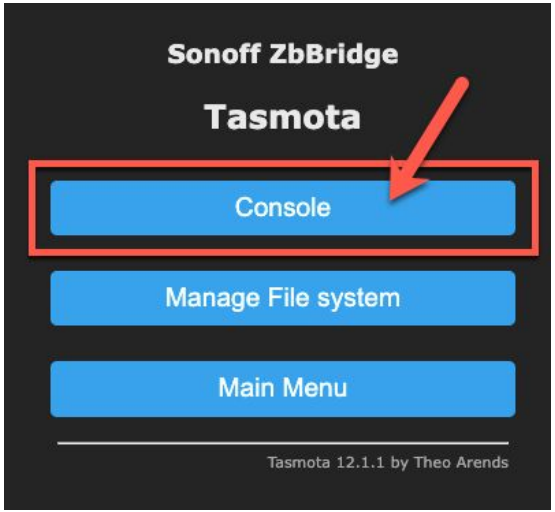


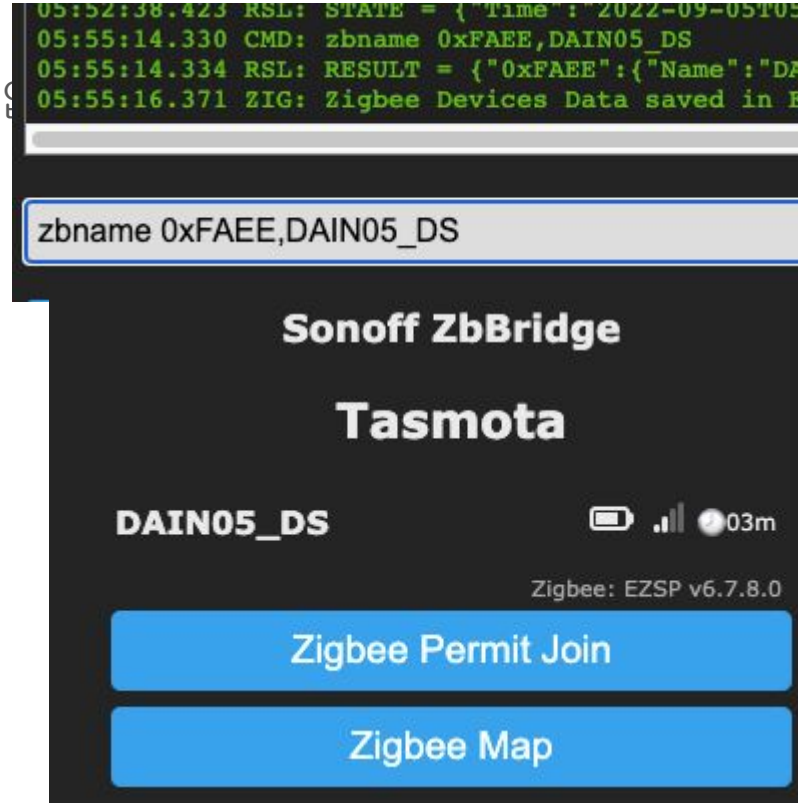
지그비 디바이스 이름 변경

zbname 0xFAEE,DAIN05_DS

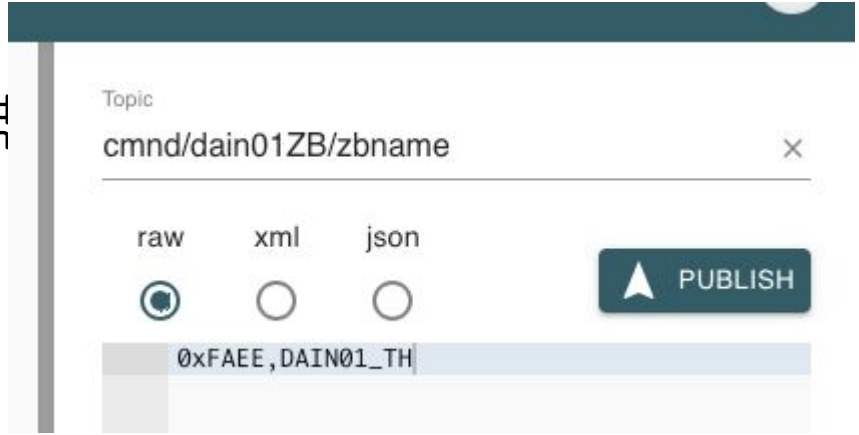
위와 같은 커맨드 콘솔에 입력 콤마(,)뒤에는 공백





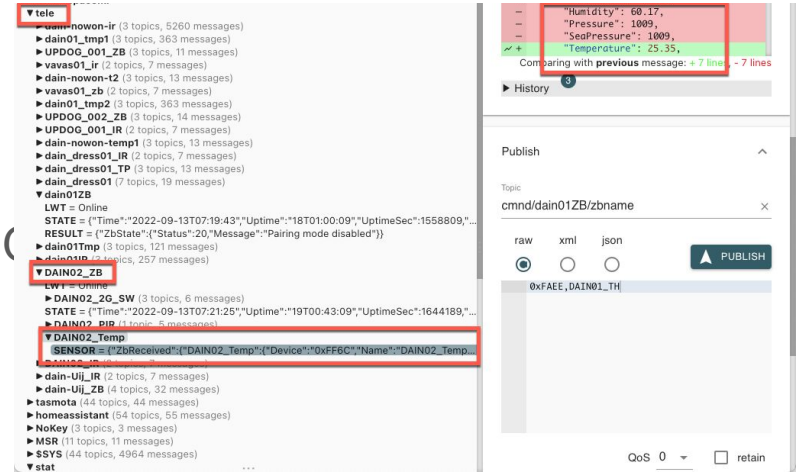


지그비 디바이스 이름 변경 (원격



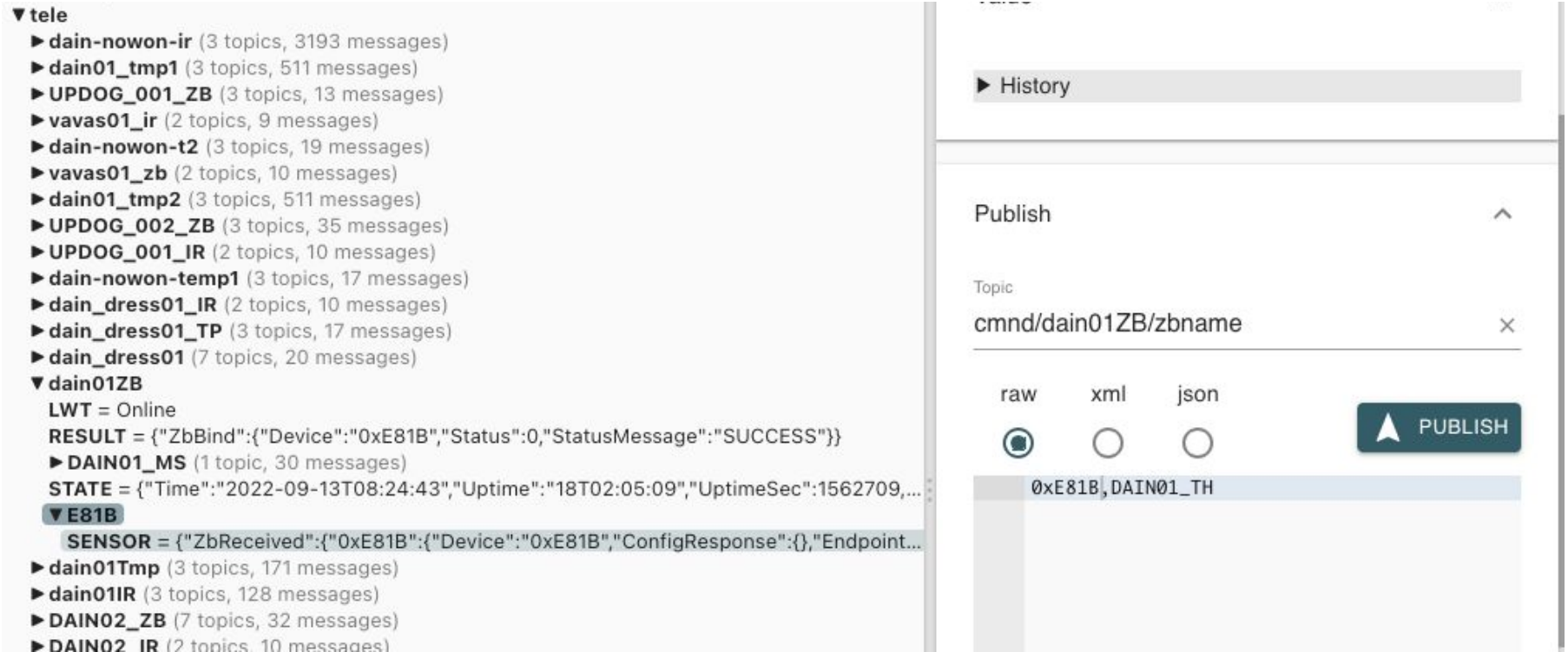
mqtt explorer들어간 후 아래와 같이 입력
- 우측 탭에서 PUBLISH
- Topic에
  cmnd/지그비디바이스이름/zbname
- raw에 체크박스
- 하단 입력칸에 16진수로 임의할당된 디바이스이름,변경이름 입력 (공백없이)
  (예: 0xFAEE,DAIN99_TH) ← 콤마뒤에공백없게
- PUBLISH버튼 클릭

* 이후 센서데이터가 한번이라도 올라오게 되면
  tele/지그비디바이스이름/온습도계이름/SENSO
  에 온/습도 데이터가 표현됨



광주첨단점 예시 (E81B로 센서값이 지정되어, zbname으로변경)

cmnd/dain01ZB/zbname 0xE81B,DAIN01_TH



지그비 디바이스 이름 지정 규칙

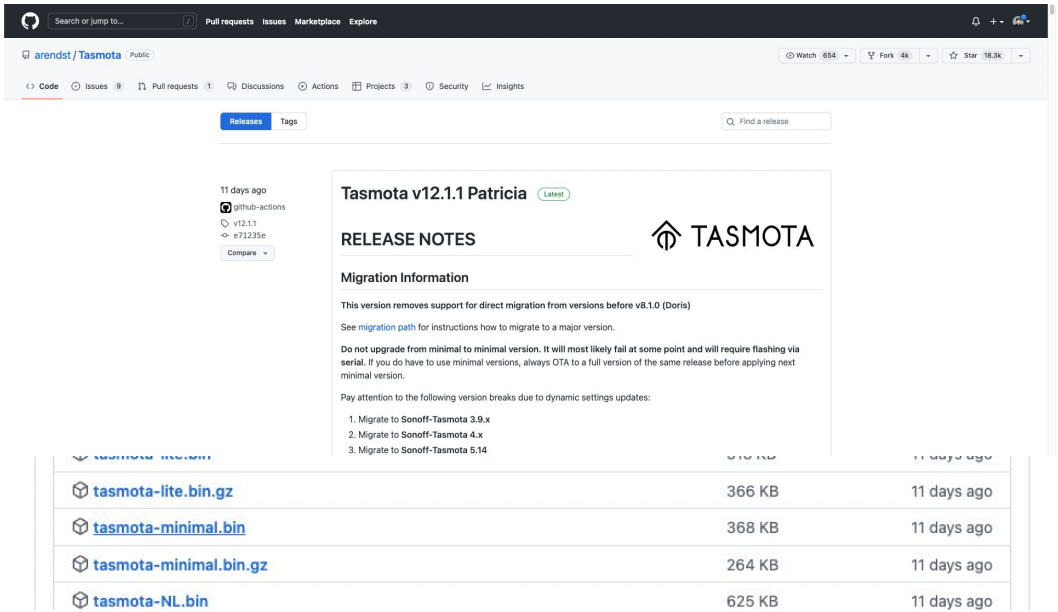
모든 사이트명은 대문자로 입력

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

[참고] 기존 펌웨어 초기화

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

접속 후, 하단 Assets에서 tasmota-minimal.bin 다운로드



[참고] 기존 펌웨어 초기화

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