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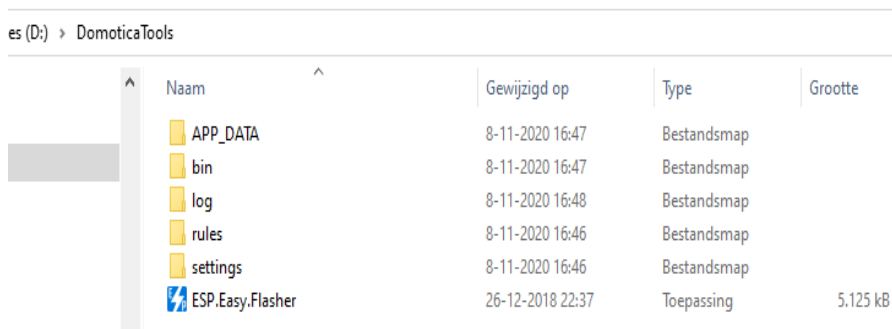
1 Sonoff and Shelly

This chapter describes how to connect a Sonoff / Shelly device via MQTT / Mosquitto to Domoticz.

1.1 Tools and basis

The basic information below is known:

- Tool used is:
 - ESP.Easy.Flasher.exe
 - <https://github.com/letscontrolit/ESPEasy>
- Download Bin Files Latest Version:
 - Download Sonoff Tasmota bin files from Theo Arends (<https://github.com/arendst/sonoff-tasmota/releases>)
 - Later that can be upgraded via OTA:
 - <http://ota.tasmota.com/tasmota/release/>
 - Download in the folder
 - Version 15.0.1 is current (July 2025)
 - The bin file must not have spaces in the name.
 - Place \ESP.Easy.Flasher/bin
- Overview folders ESP.Easy.Flasher



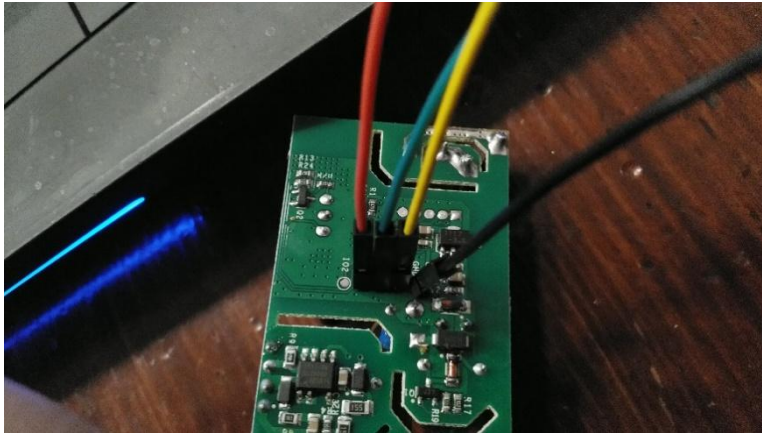
Naam	Gewijzigd op	Type	Grootte
APP_DATA	8-11-2020 16:47	Bestandsmap	
bin	8-11-2020 16:47	Bestandsmap	
log	8-11-2020 16:48	Bestandsmap	
rules	8-11-2020 16:46	Bestandsmap	
settings	8-11-2020 16:46	Bestandsmap	
ESP.Easy.Flasher	26-12-2018 22:37	Toepassing	5.125 kB

Tool creates following folders

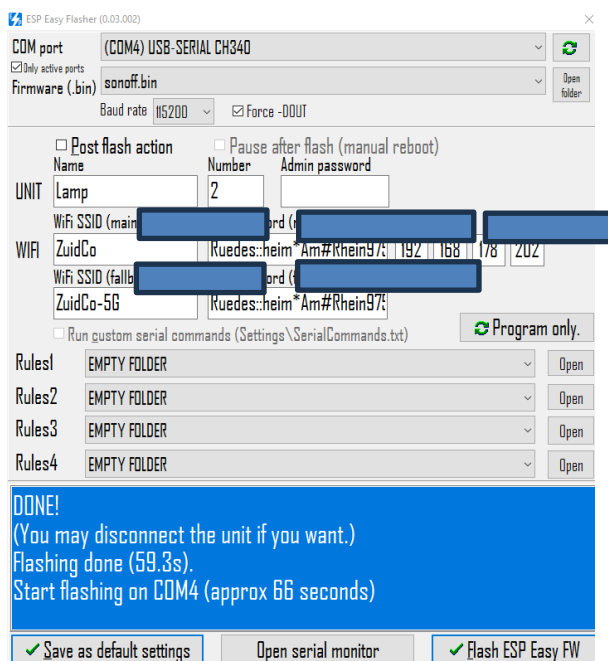
1.2 Flash Sonoff devices

The purpose of this step is to place Tasmota on the Sonoff device.

- Connect the Sonoff board to the USB port via the “USB to TTL” cable.



- 90cm long cable are four header connectors:
 - red = power
 - black = ground
 - white = RX (to USB port)
 - green = TX (from USB port).
 - Sequence is RED (3V3 pin), GREEN (RX), YELLOW (TX), BLACK (GND)
- Determine the com port
 - Via device manager (in start menu: Windows Administrative Tools, Computer Management, within Device Manager), the USB connection must be (go to Ports COM&LPT).
- Flash the Sonoff via next steps:
 - Remove the USB from the laptop.
 - Press and hold the reset button (black long).
 - Plug the USB port into the laptop.
 - Light won't flash, it's good: it's now in flash mode.
 - Start ESP.Easy.Flasher

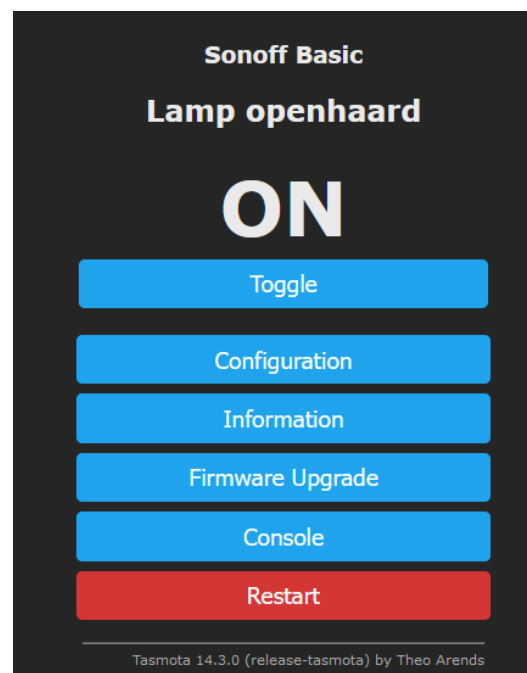
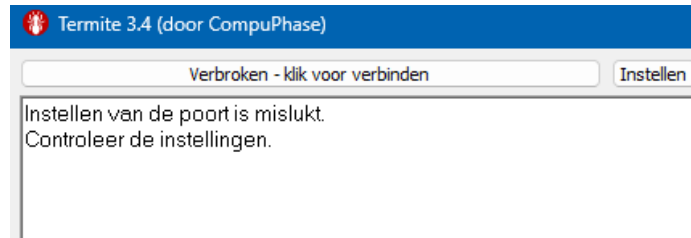


- Select correct firmware,
- Check Force -DOUT.
- You can activate OTA in your software to be flashed, so that you can reprogram your device Over the Air in the future.
- Baud rate is 115200
- Save as default settings.
- Press Flash ESP Easy FW
- Release reset button.
- Takes about a minute.

1.3 Next steps Sonoff

The purpose of this step is to configure Sonoff devices.

- Disconnect USB cable and reinsert cable (reset).
- Open Termite:
 - Settings: Adjust com port and baud rate (115200).
 - Result must be: Query done, MQTT services found AND connection failed.
 - Give the following commands (are Tasmota Commands):
 - `ssid1 xxxx`
 - `password1 <PASSWORD>`
 - `IPADDRESS1 192.168.xxx.xxx` (first free address)
 - `IPADDRESS2 192.168.xxx.xxx` (gateway)
 - `IPADDRESS3 255.255.xxx.xxx` (is subnet mask)
 - `Restart 1` (to get a new IP address)
- Can now go to new IP address via browser.
 - Then comes the Sonoff screen.
 - Configuration
 - Module
 - Module type Sonoff Basic (1) or Shelly 1 (46)
 - GPIO all on NONE
 - MQTT
 - Host on 192.168.xxx.xxx
 - Port 1883
 - To do:
 - Client (take over name behind brackets `DVES_93CDA7`)
 - User (must be a unique name).
 - Enter password. This user/password must be created in Mosquitto password file.
 - Topic is "`<IP adres>_Domoticz_<user>`"
 - Domoticz
 - Add IDX1 (in Domoticz and then link here – see steps below Domoticz).
 - Other
 - Adjust Device Name and Friendly Name 1.





- Backup
 - Backup and save.
 - Copy backup
- Adjust in Domoticz:
 - Setup, Hardware
 - Add component (type Dummy)
 - Press Create Virtual Sensors to create a Device.
 - Sensor Type is Switch
 - Determine Idx of Device and add to Config (above).

Test in the browser if the toggle works (hear a click and green light goes off/on).