BLE MQTT Gateway

the idea here is to have an esp32 based gateway which detects BLE Beacons and reports them to an MQTT server for presence detection to open doors, turn on lighs etc.

On the software side i decided to go with the OpenMQTTGateway

After Reading some git hub issues and blog posts I decided to trop the esp32 and go for an esp8266 combined with an HM10 module. for the esp8266 i will be using a wemos d1 mini. the nice thing is, that the HM10 module, if purchased on an SZ-040 (or AT-09) board fits right underneath the esp8266. combine some of the sockets that come with the wemos d1 mini and bend some pins on the ZS-040 board and you won't have to use a single wire.

here is how it connects:

pin on ZS-040	pin on D1 mini
RX	D6
TX	D7
VCC	5V
GND	G

Flashing

with the hardware in place let's get the software side done: first I setup_arduino_ide_for_esp8266. Now download the latest release of OpenMQTTGateway and extract it. Rename the folder to `OpenMQTTGateway` (remove the version) so that you can open it in the arduino IDE.

open the `OpenMQTTGateway.ino` file in your prepared arduino gateway and go through the `User_config.h` settings for your wifi, passwords and mqtt settings. In the module selecton comment out all the modules and remove the comment from the ZgatewayBT module. Next go through the settings in `config_BT.h`.

now Copy the contents of `OpenMQTTGateway/lib` to `<sketchbook folder>/libraries` in your arduino ide folder

NOTE make sure you have SPIFF enabled in the board settings of the arduino IDE. it seems OMG wants to use that to save config changes

the web-interface to configure the wifi and mqtt settings seems to only be available in access point mode.

From:
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Last update: **08.01.2019 00:40**