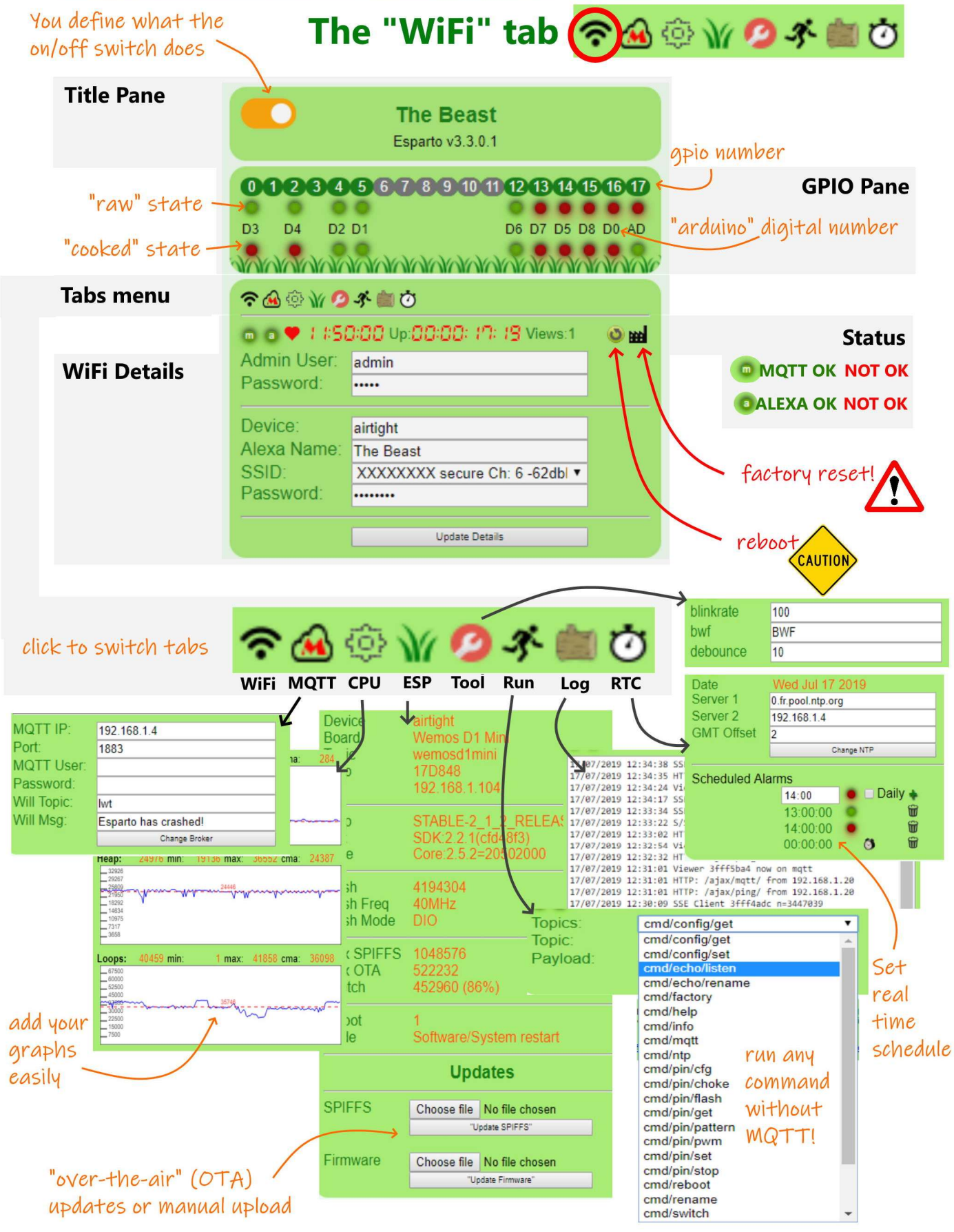
Esparto v3.3

Web User Interface



 philbowles2012@gmail.com https://github.com/philbowles/esparto

Esparto v3.3

Web User Interface

The MQTT tab

You define what the on/off switch does

Title Pane

The Beast

Esparto v3.3.0.1

gpio number

GPIO Pane

"raw" state

"cooked" state

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

D3 D4 D2 D1 D6 D7 D5 D8 D0 AD

"arduino" digital number

Tabs menu

Status

MQTT OK NOT OK

ALEXA OK NOT OK

Publish Stats:

Publish Vars:

any user data changes are sent to MQTT

MQTT IP: 192.168.1.4

Port: 1883

MQTT User:

Password:

Will Topic: lwt

Will Msg: Esparto has crashed!

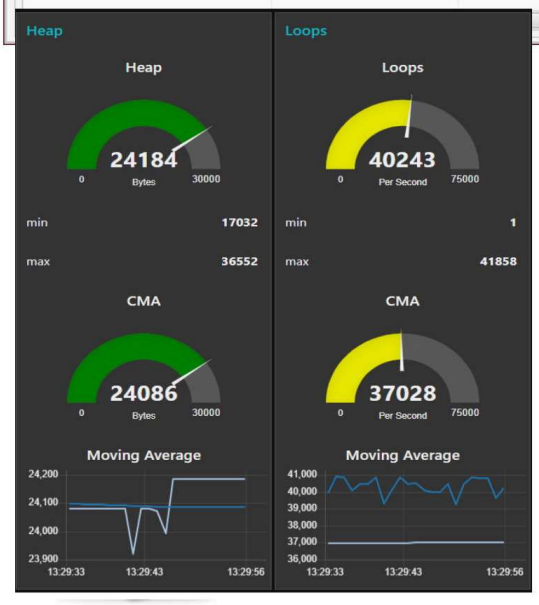
Change Broker

factory reset!

reboot

CAUTION

click to change to green to send stats to MQTT



Server can IP or domain name - can be switched at any time without a reboot

Username and password are optional

NODE-RED is great for stats!

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Esparto v3.3

Web User Interface

The "Gear" tab

You define what the on/off switch does

Title Pane

The Beast

Esparto v3.3.0.2

gpio number

GPIO Pane

"raw" state

"cooked" state

"arduino" digital number

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

D3 D4 D2 D1 D6 D7 D5 D8 D0 AD

Tabs menu

14:57:09 Up:00:00:05:26 Views:1

Status

MQTT OK NOT OK

ALEXA OK NOT OK

factory reset!

reboot

CAUTION

you can choose which graphs to include...

ADC: 308 min: 284 max: 367 cma: 285

Heap: 23424 min: 18008 max: 35584 cma: 24640

Loops: 38540 min: 1 max: 40936 cma: 38939

cma means continuous moving average

Rand: 954 min: 1 max:

NOTB: 666 min: 666 max:

...and even add your own with 1 line!

```
163
164 void setupHardware
165   ESPARTO_HEADER(S
166   Esparto.graph("Rand",1000,10,0,[](){ return ran
167   Esparto.graph("NOTB",1000,10,0,[](){ return 666
168
```

heap & loops are the best indicator of mcu health. If they slope down you are in ~~Stair~~ trouble.

nifty "vbar" puts a colored stripe so you spot when things go bump in the night

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Esparto v3.3

Web User Interface

The "ESP" tab

You define what the on/off switch does

Title Pane

The Beast

Esparto v3.3.0.2

gpio number

GPIO Pane

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

"raw" state

"cooked" state

D3 D4 D2 D1 D6 D7 D5 D8 D0 AD

"arduino" digital number

Tabs menu

progress bar

18%

15:33:12 Up:00:00:41:29 Views:1

Status

MQTT OK NOT OK

ALEXA OK NOT OK

ha! ha! because every single gpio socket has a plug in it!

Device	airtight
Board	Wemos D1 Mini
Topic	wemosd1mini
Chip	17D848
IP	192.168.1.104
Lwip	STABLE-2_1_2_RELEASE
Sdk	SDK:2.2.1(cfd48f3)
Core	Core:2.5.2=20502000
Flash	4194304
Flash Freq	40MHz
Flash Mode	DIO
Max SPIFFS	1048576
Max OTA	522232
Sketch	453504 (86%)
NBoot	2
Code	External System

factory reset!

reboot

Updates

you can use OTA from the arduino IDE or upload stuff yourself

SPIFFS Choose file spiffs__4M.bin "Update SPIFFS"

Firmware Choose file No file chosen "Update Firmware"

does pretty much what it says on the tin

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Esparto v3.3

Web User Interface

The "Tool" tab

You define what the on/off switch does

Title Pane

The Beast

Esparto v3.3.0.2

gpio number

GPIO Pane

"raw" state

"cooked" state

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

D3 D4 D2 D1 D6 D7 D5 D8 D0 AD

"arduino" digital number

Tabs menu

16:03:30 Up:00:0 1: 1 1:47 Views:2

blinkrate	100
bwf	BWF
debounce	10

Status

MQTT OK NOT OK

ALEXA OK NOT OK

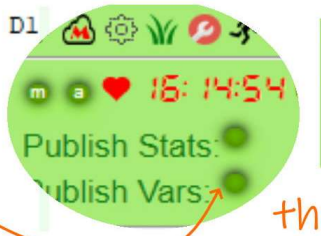
factory reset!

reboot

CAUTION

```
78      {CONFIG(ESPAI
79      {CONFIG(ESPAI
80  //
81  //  Add your own configuration name/value pairs here:
82  //
83      {"blinkrate","100"},
84      {"debounce","10"},
85      {"bwf","BWF"}
86  };
87  ESPArto Esparto(cb);
88  #define PIR             D0
89  #define ENC_A           D1
```

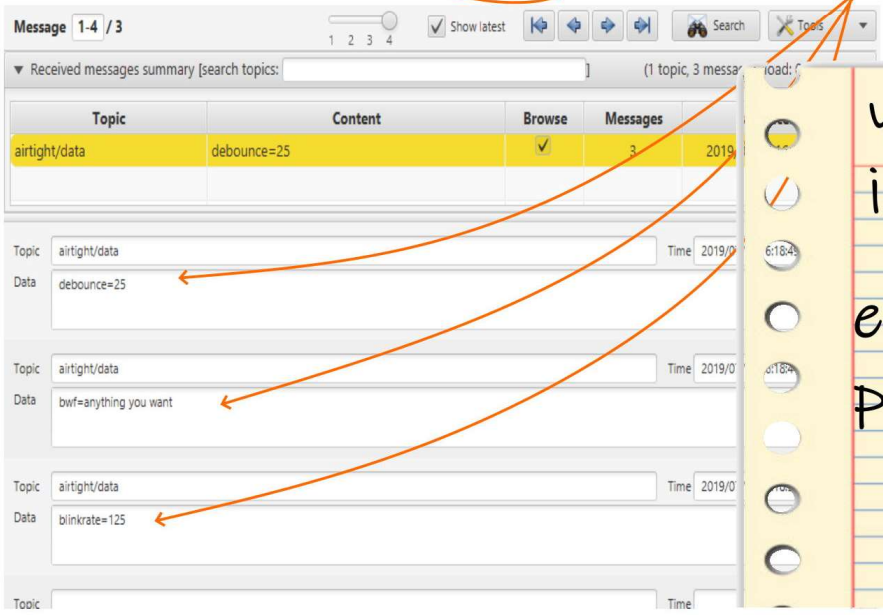
you define these
you can do what you want
with them...



blinkrate	125
bwf	anything you want
debounce	25

..if you click this:

the new values get sent to MQTT
when they change



your code gets told
if they change

even if some other
process does it!

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Esparto v3.3 — Web User Interface

The "Run" tab

You define what the on/off switch does

Title Pane

gpio number

GPIO Pane

"raw" state

"cooked" state

"arduino" digital number

Tabs menu

Status

MQTT OK NOT OK

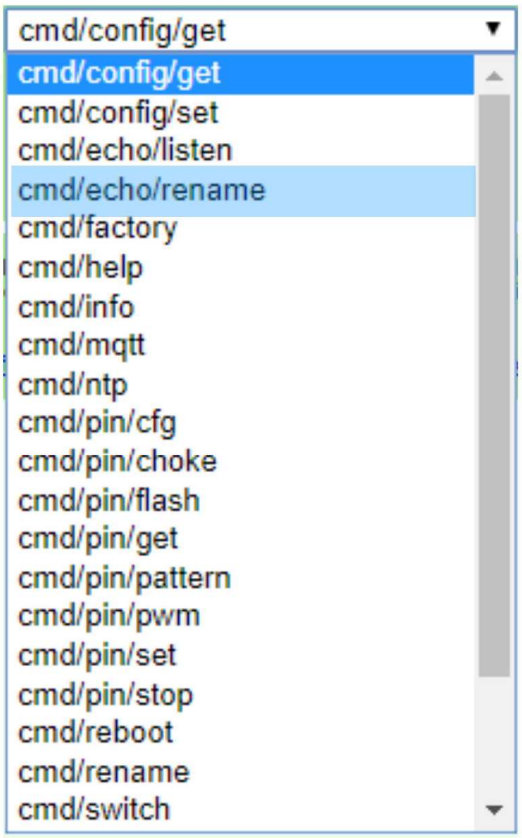
ALEXA OK NOT OK

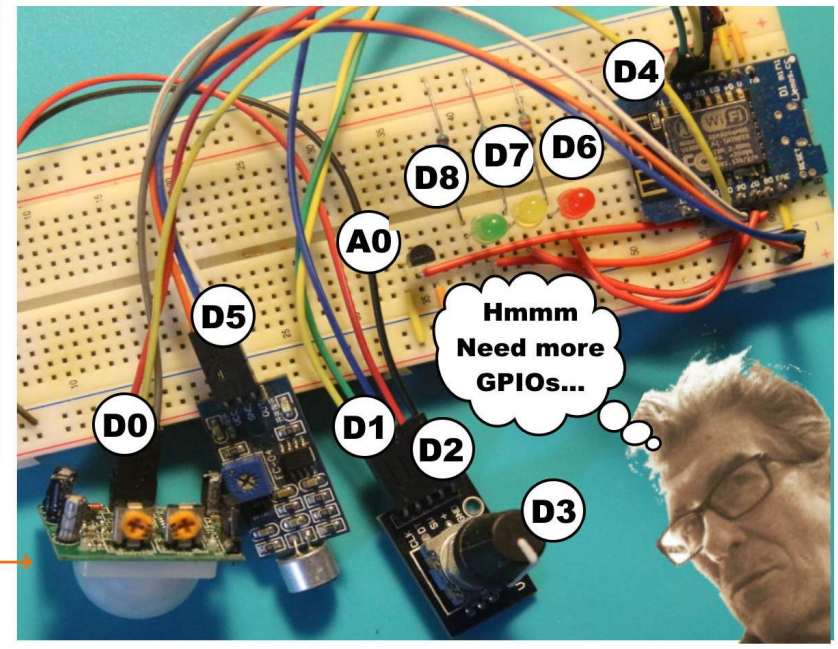
1. drop down the list
2. enter other data e.g. payload... and hit the button

factory reset!

...et voila!

reboot





"the beast" - love the Arduino-color workmat!

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Esparto v3.3

Web User Interface

The "Log" tab

You define what the on/off switch does

Title Pane

The Beast

Esparto v3.3.1.14

gpio number

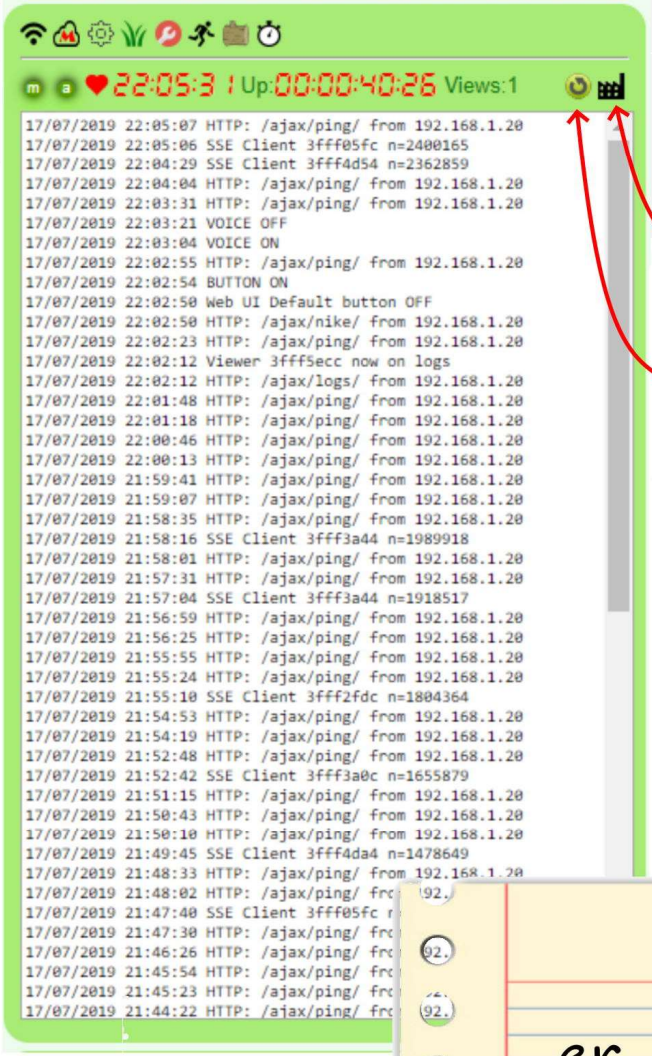
GPIO Pane

"raw" state

"cooked" state

"arduino" digital number

Tabs menu



Status

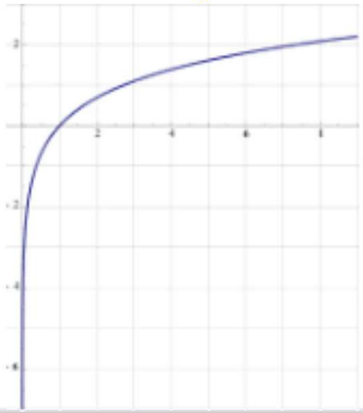
MQTT OK NOT OK

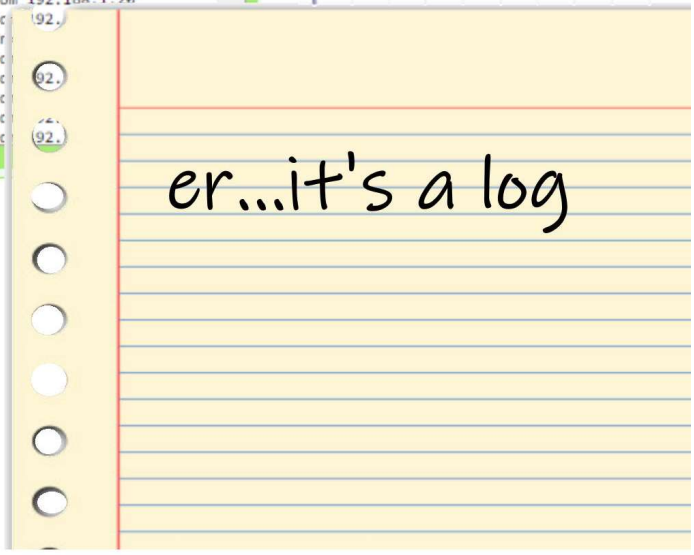
ALEXA OK NOT OK

factory reset!

reboot

it's a log





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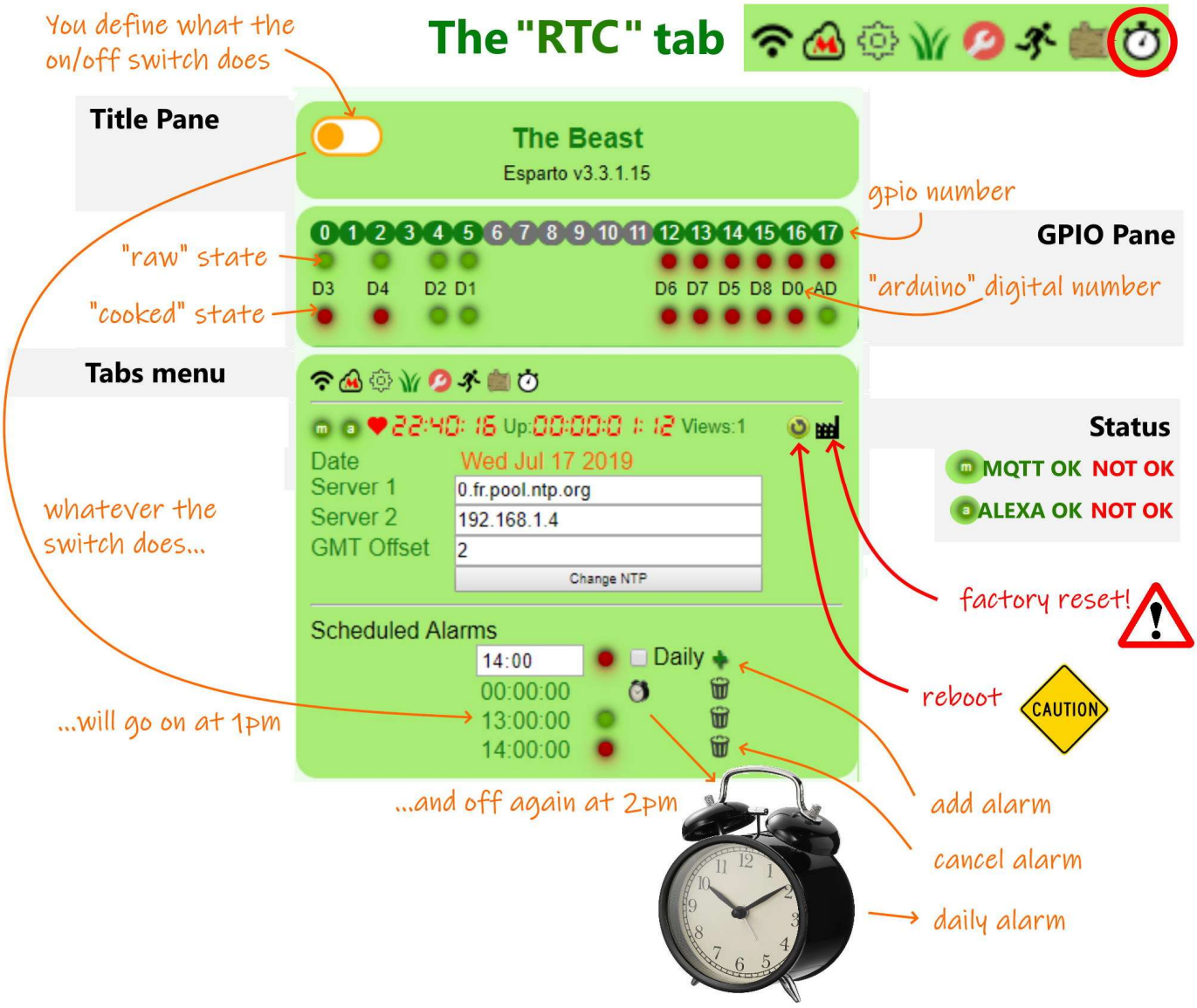
Esparto v3.3

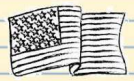
Web User Interface

The "RTC" tab



re-sync automatically with NTP server every 2 hours (configurable)

GMT offset can be -ve of course!



no 1/2hr or 45mins though yet, sorry

and

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