# Installation for Tumaini School

# Usage

If everything is nicely connected and up and running, the user can connect to Wifi using SSID «BasicInternet».

This leads to the welcome page, which is always available from <u>http://acces.basicinternet.org</u>

Here you have the different choices:

Yeboo.com

- Vodacom e-learning platform e-Fahamu, free to use for everyone
- School server <u>veboo.com</u> your local server with content which you can configure and share
- Energy Monitoring a Smappee installation to monitor energy, use the homeassistant app and connect to <u>energy.yeboo.com</u> (port 80)<sup>1</sup>



Clikk for FREE INTERNET ACCESS!

Voucher access for Internet

Login Form Username Username Password Password

Login

Vodacom e-learning

School server Yeboo

Energy Monitoring Tumaini

BasicInternet.org
Google search

# Cabling

Basic Internet

You have the following units:

 (Antenna) Antenna for reception of mobile network, connects from Port 1 to Port 1 of the LNCC

Welcome to our community, available on this school/community server.

We'll put together a set of information, which you can use for free. Ask you

Energy information, provided through the SESA project
 \*

The server is available in English, Kiswahili and Swahili

- (LNCC) hAP Router providing BasicInternet Wifi. Connects to the (Antenna) on Port 1, and on Port 2 to the (Switch) Port 1
- (Switch) Port 1 receives the Internet from (LNCC), Port 2-8 are for (Genius), (EnergyRPI), (YebooRPI), and if you need to monitor, to a PC
- (Genius) the Smappee Genius collects the data from the Smappee gateway, and provides them to the home assistant through 192.168.60.18
- (EnergyRPI) is the squared Raspberry Pi 4, which has <u>http://energy.yeboo.com</u> for the energy monitoring - use the Home Assistant App for monitoring, or the Web page



(YebooRPI) is the Raspberry 400, with the <u>yeboo.com</u> Web page and the local Nextcloud at yeboo.com:8080

<sup>&</sup>lt;sup>1</sup> Troubleshooting, see last page - login is: its, passwd: ITS-energy2024

### **Smappee installation**

If Smappee does not come up in the homeassistant interface, then

- a) take out the power/data cable and reboot Smappee Genius that will reset Smappee and restart. Wait a bit, and see if Smappee Genius get's green (IP address found) and is integrated in HomeAssistant
- b) If that does not help, open HomeAssistant: <u>http://energy.yeboo.com</u> and go to Settings = Integrations = Smappee = remove the integration
- c) Then, reboot Smappee and wait a bit, and in HomeAssistant under Notifications you will see «new devices available» - Integrate Smappee

| ne Assistant  | ÷                                | Integrations Devices                             | Entities Helpers                | Smappee                               | Bluetooth   |        |
|---------------|----------------------------------|--|---------------------------------|---------------------------------------|---|--------|
| view<br>3Y    | Q Search integrations Discovered |  |                                 | CONFIGURE                             | Success! ×  |        |
| ook           | 5010000742<br>Smappee            | kci0 (D8:3A:DD:94:6D:BE)<br>Bluetooth            |                                 | Configured                            | Created configuration for smappee5010000742.<br>We found the following devices: |        |
| editor<br>cDB | CONFIGURE IGNORE                 | CONFIGURE IGNORE                                 | ×                               | Bluetooth<br>Failed setup, will retry | Smappee 5010000742 local<br>Smappee Genius (Smappee)                            | G<br>s |
| a<br>vinal    | Bluetooth                        | t to add the Smappee device with serialnumber Si | 818888742 to Home late text-to- | 2 DEVICES                             | ControlRoom × -   | TY     |
| o lists       | Meteorologisk institutt (Met.no) | MQTT >   | Radio Browser                   | Meteorologisk institutt (Met.no)      | FINISH  | R      |
| loper Tools   |                                  | 1 ENTRY  | 1 ENTRY                         |                                       | 1 ENTRY 1 EI  | NTRY   |
| ngs           | Shopping List                    | ∑ộĭ Sun >  | Thread                          |                                       |   |        |

### **Troubleshooting Energy Monitoring**

If <u>energy.yeboo.com</u> does not come up, you can connect by cable to one of the free router ports and a display cable to see the results of the Raspberry PI on a screen.

- Through a browser you have access to energy monitoring using http://192.168.60.19
- Under Settings = System = Logs you see error messages

For experts only:

- if the error is related to reverse proxy, use an ssh to connect: ssh <u>its@192.168.60.19</u> (passwd: ITS-energy2024)
- the you can edit the configuration.yaml file:
- · vi /homeassistant/configuration.yaml
- · exit the vi editor with ESC :wq
- · the «reboot now» the machine