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Configuration Mode - 1

In order to enroll a new child device on EWT100, you have to enter in **CONFIGURATION MODE**

Step 1.
Enter in Main Menu by clicking on ENTER

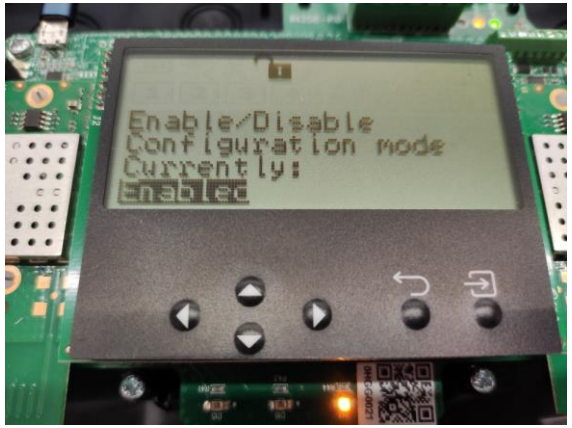
Step 2.
Enter **0001** (or LEVEL 1 code you programmed with FireVibes Studio)

Step 3.
Scroll on **CONFIGURATION MODE** entry

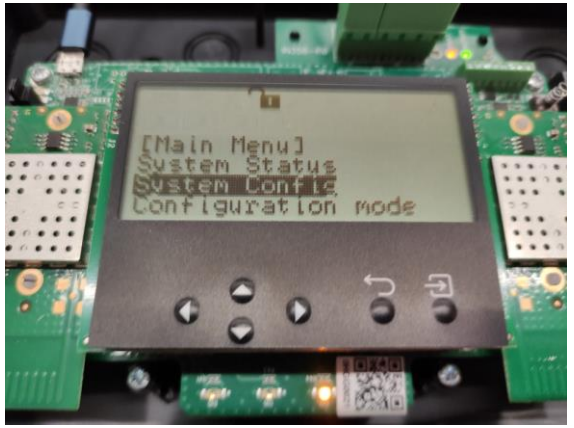
Step 4.
Enter **0002** (or LEVEL 2 code you programmed with FireVibes Studio)

Configuration Mode - 2

Step 5.
Using **UP/DOWN** arrows move to **ENABLED**



Step 6.
Now EWT100 is in **CONFIGURATION MODE**

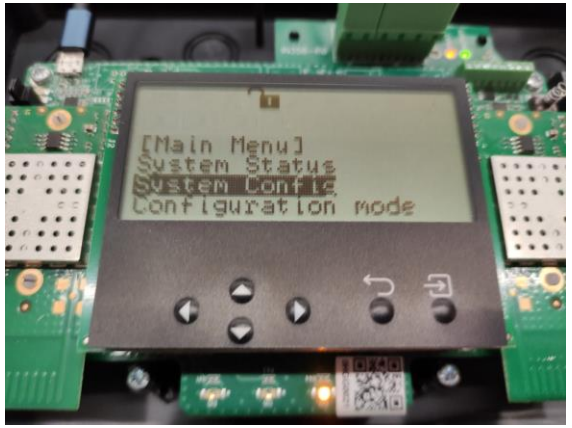


Now it is possible to enroll child devices on **radio domain** and later update the **loop domain (wired)**.

Device Enroll - 1

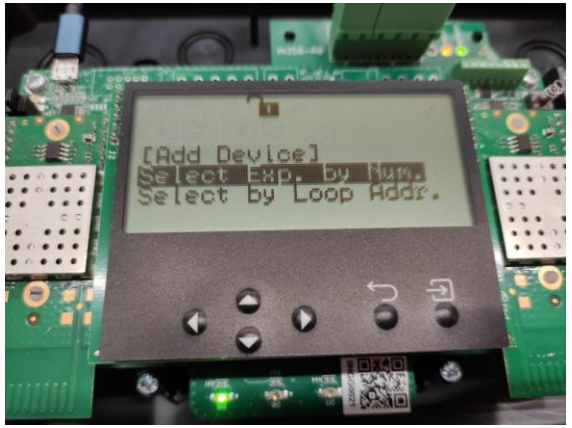
Entering in the **SYSTEM CONFIG** menu you will be able to enroll devices onto the desired translator EWT100 or one of XWT100 expander in the radio system.

Step 1.
Scroll to **SYSTEM CONFIG** using **UP/DOWN** arrows and press **ENTER**



Step 2.
Scroll to **ADD DEVICE** and press **ENTER**

Step 3.
Scroll to **SELECT EXP. BY NUM** and press **ENTER**



Step 3.
Choose the EWT100 (translator) or one of the XTX100 (expander) and press **ENTER**

Device Enroll - 2

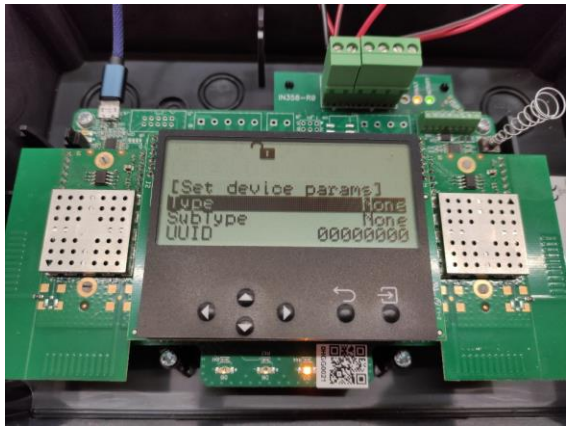
In this tutorial, we want to enroll a base sounder with white VAD.

1. Check that the enroll dip switch is in ON position
2. Put batteries on the device
3. Wait red led stop blinking

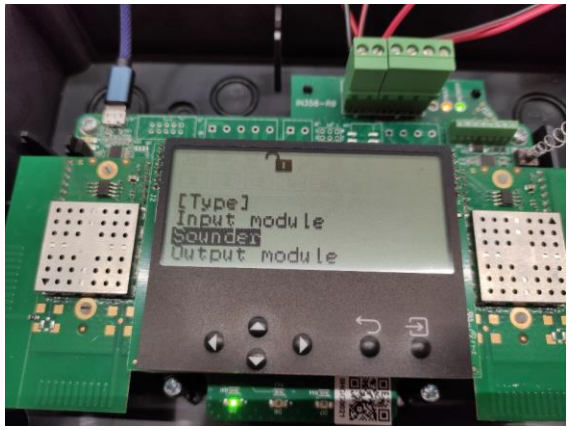
DIP SWITCH **ON**

Device Enroll - 3

Step 5.
Choose device **TYPE** and click **ENTER**



Step 6.
On **TYPE** menu choose **SOUNDER** and click **ENTER**



Step 7.
On **SUBTYPE** menu choose **BS white VAD** and click **ENTER**

Device Enroll - 4

Here you can address your child radio device.

REMEMBER that the address will be the LESS SIGNIFICANT BYTE of the device's Inim physical address

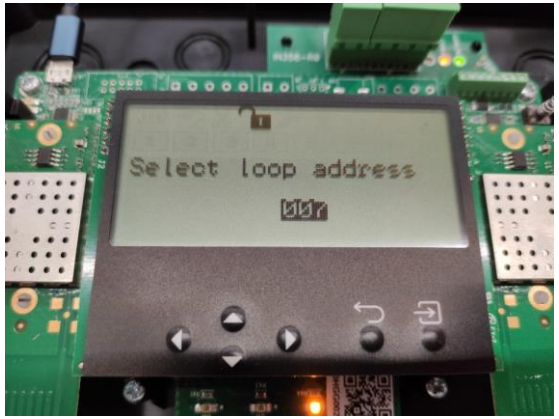
Example: 01:02:03:**<RADIO ADDRESS>** , where radio address is one of 1-128

Step 8.

Scroll to **LOOP ADDRESS** and click **ENTER**

Step 9.

Choose the address or leave the default one and click **ENTER**



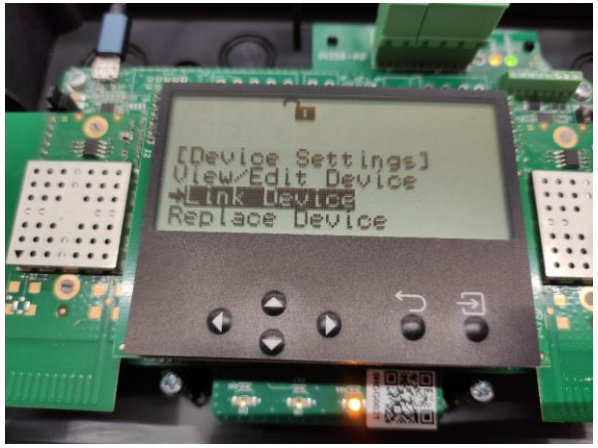
Step 10.

Now scroll to **=> SAVE**

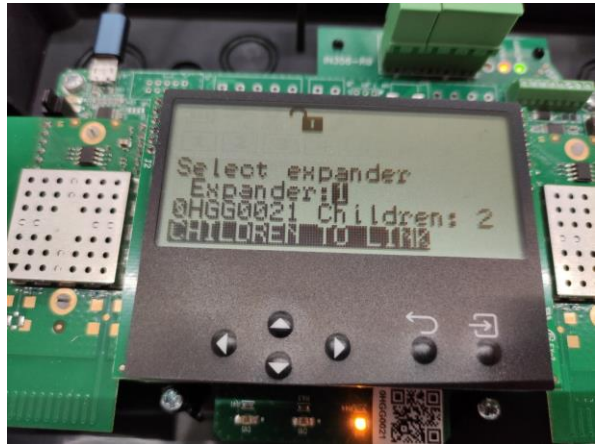
Device Enroll - 5

Now we have enrolled the new child device to the translator EWT100 or to a specific expander XWT100.
Next step is to **link** the child to the target network device. We will follow the **LINK BY SWITCH** tecnique because we didn't add the child device **UNIQUE ID**

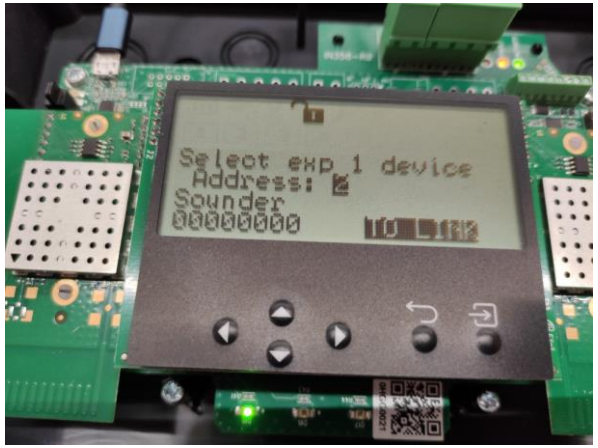
Step 11.
Press **BACK** and scroll to **=> LINK DEVICE**, then click **ENTER**



Step 12.
The device will show the pending link device on the specific network device (i.e. expander 1, children 2)
Click **ENTER**



Step 13.
Confirm linking by press enter with **TO LINK** selected.



Step 14.
Confirm **LINK BY SWITCH** pressing **ENTER**

Device Enroll - 6

The EWT100 now will keep waiting for the child device to broadcasting its presence on the radio channel.
Take the child device and switch to OFF the enroll dip-switch.
You can repeat the procedure from step 1 to 6 for each of radio child needed.

Step 15.
Translator waits for device **wake up** event

Step 16.
Turn to **OFF** position the enroll dip-switch

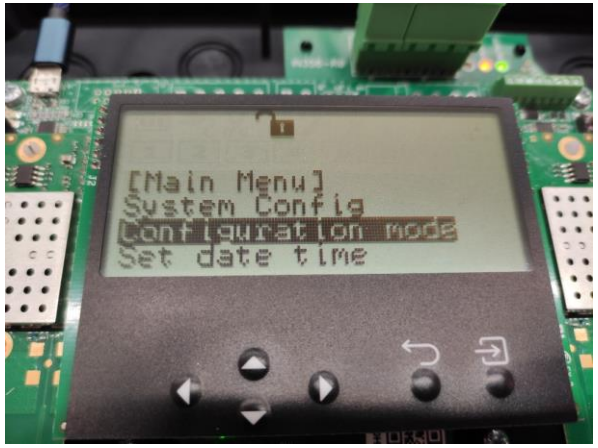
Step 17.
As soon as the translator capture the wake up event from device, it will start the link routine. Wait till it ends.

Step 18.
The link procedure is ended correctly.
Click **BACK** to jump back to main menu.

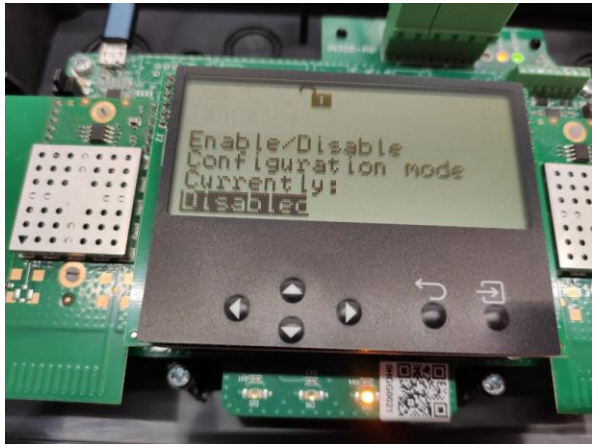
Previdia device acquisition - 1

In order to have loop communication with devices, you have to acquire the new radio devices.
First of all you have to leave the **CONFIGURATION MODE**.

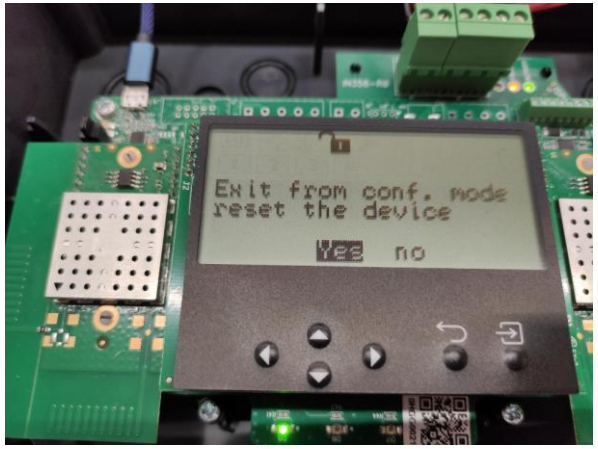
Step 1.
Go to **CONFIGURATION MODE** on main menu and click **ENTER**.



Step 2.
Insert LEVEL 1 and 2 password and switch to **DISABLED**, click ENTER



Step 3.
Confirm **YES** with **ENTER**.
This will reboot the translator and exchange the new radio configuration to loop bridge board.



Previdia device acquisition - 2

Once you have built your radio configuration and quit from CONFIGURATION MODE, you will be able to operate on the Previdia panel.
The EWT100 will behave like N wired devices in a series link topology, so you can READDRESS/ACQUIRE loop like an usual wired loop.

If the new radio devices has never been addressed, you will have to lauch READDRESS procedure or manually add it on loop with ADD/CHANGE procedure, using its virtual physical address.

Step 1.
Go on control panel and enter in **PROGRAMMING** (default code 00004)

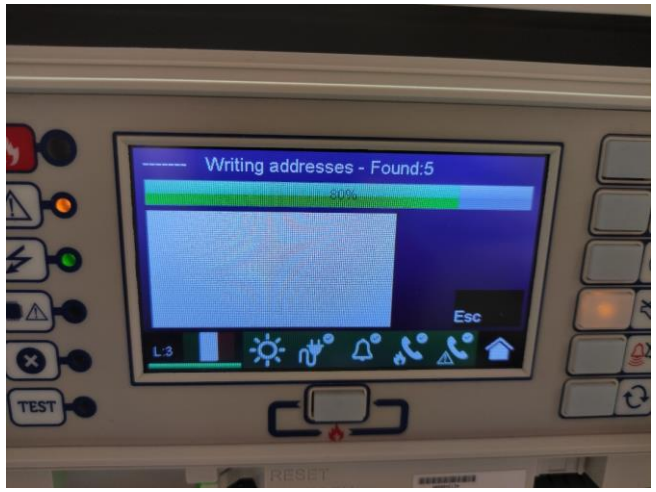
Step 2.
Enter in AUTO-CONFIGURE => READDRESS

Previdia device acquisition - 3

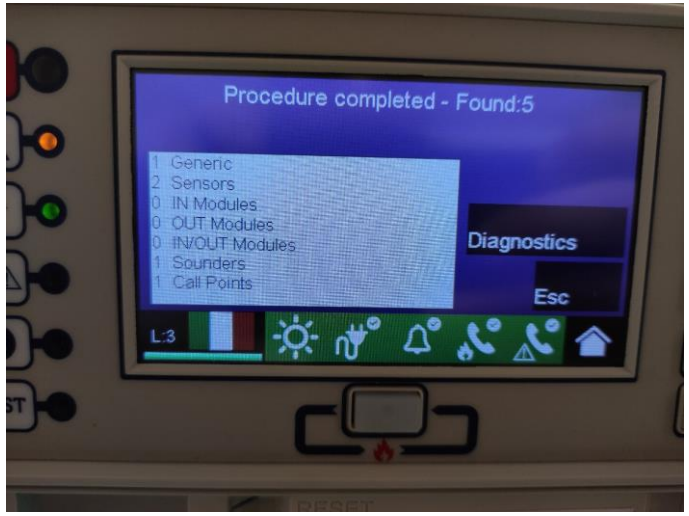
The panel will find N+M+1 devices, where:

- N is the total number of child radio devices;
- M is the total number of wired devices;
- 1 is the EWT100 itself.

Step 3.
Wait for procedure to end



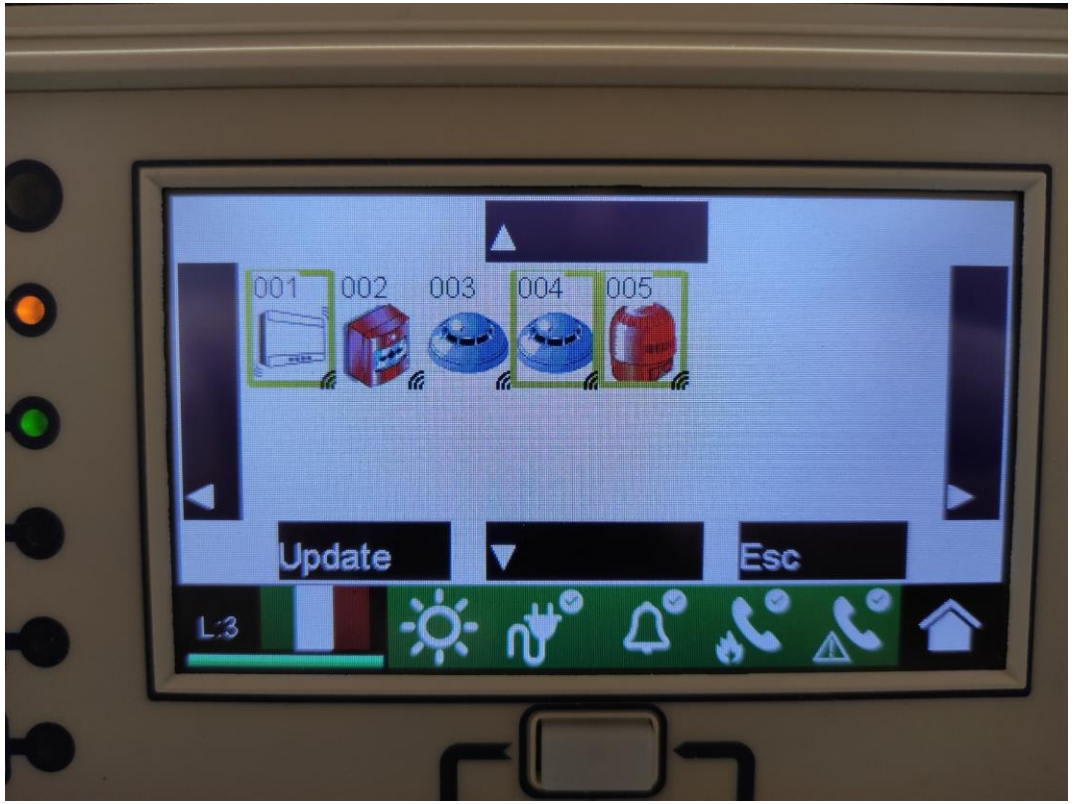
Step 4.
At last you have your loop addressed. You can check on DIAGNOSTICS



Previdia device acquisition - 4

The system is now operative.

You can see the radio cluster is *virtualized* in a linear loop (series) where the first device is the EWT100 itself and the following child devices are ordered by physical address ascending.



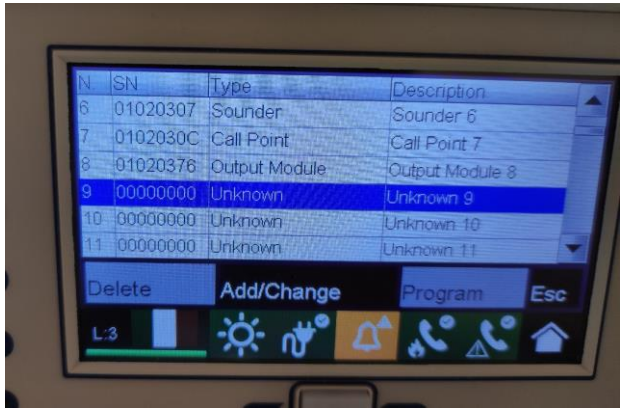
Previdia add manually device

You can also add manually a radio device on the loop with ADD/CHANGE procedure.

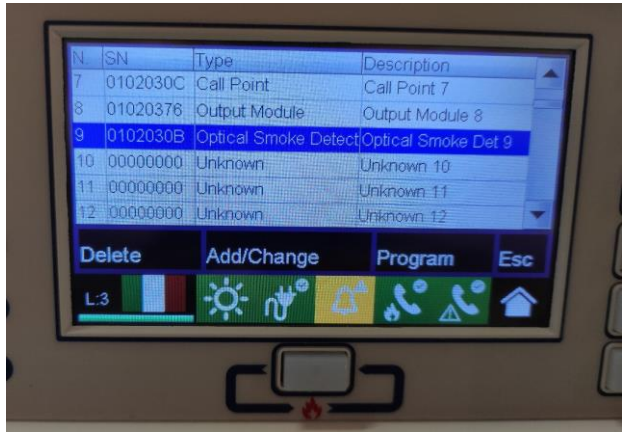
Once you have enrolled a device manually of via FireVibes Studio, you can go to PROGRAMMING -> ADD/CHANGE menu.

Step 1.
Go to **ADD/CHANGE**

Step 2.
Select a logical address you want to use for your new radio device
(i.e. 9)



Step 3.
Insert the device **physical address:**
It is **XX:YY:ZZ:<Radio Address>,**
Where XX:YY:ZZ is EWT100 base serial number (i.e. 01:02:03:xx)



FireVibes Survey Kit

FireVibes Survey kit helps you to investigate the radio quality of the installation environment.

It is composed of:

- **Translator/Expander**: battery or AC powered
- **Child device**: battery powered with an extension rod to achieve correct positioning
- **USB/Bluetooth dongle**: an USB/Bluetooth <=> radio bridge interface to communicate with smartphone/PC
- **FireVibes Survey Kit app**: application (Android Only!) to be used for the system surveying.

FireVibes Survey Kit

You can check the radio quality of each radio link by simulating a connection between network device (Translator/Expander) and child device:

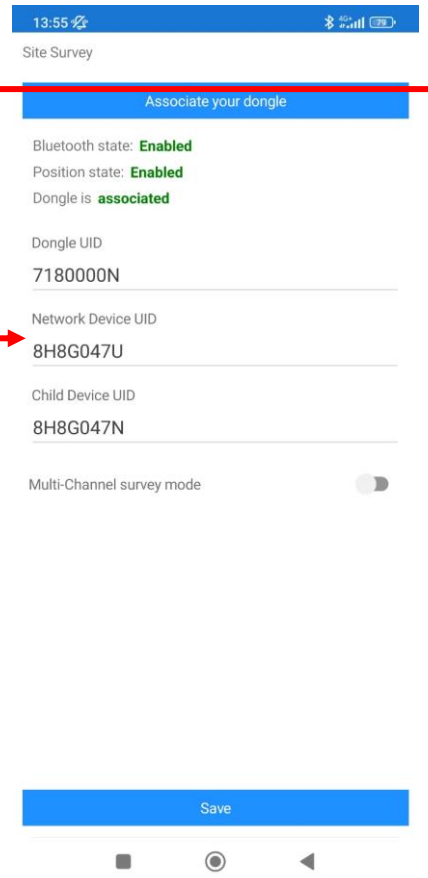
- RSSI;
- Noise Floor;

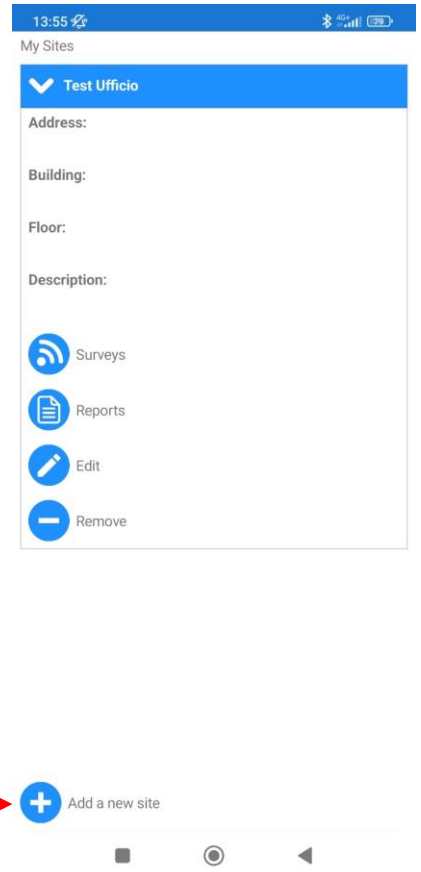
For **network** devices, it is possible to scan the best radio channels in term of interferences and noise.
The application will suggest the best pair of channel:

- **Network channels**: translator ⇔ expander and expander ⇔ expander ;
- **Device channels**: translator ⇔ devices or expander ⇔ devices.

All the information will be saved in the site survey report; you will be able to use these results on FireVibes Studio during the system configuration.

FireVibes Survey App

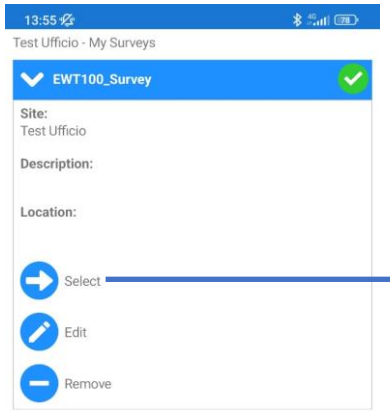


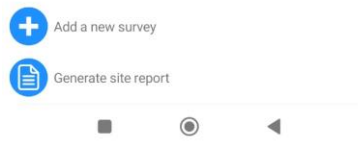


Settings Menu: Add UID for dongle, translator and device units.

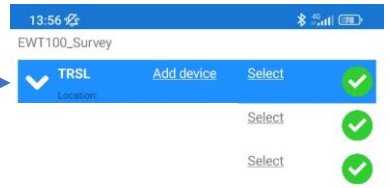
Sites menu: create a new survey site

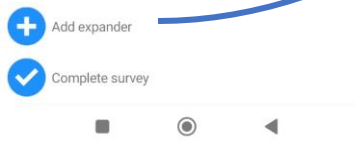
FireVibes Survey App



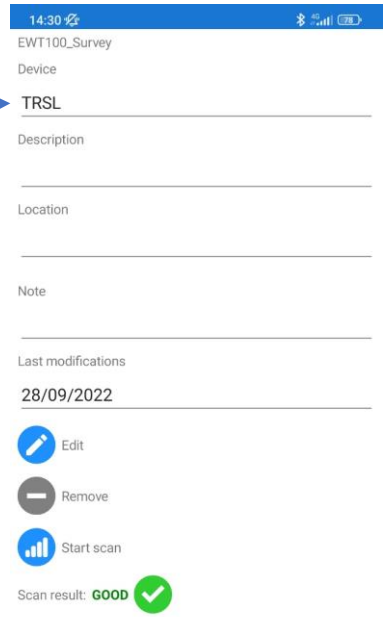


Create a site and select **SELECT**





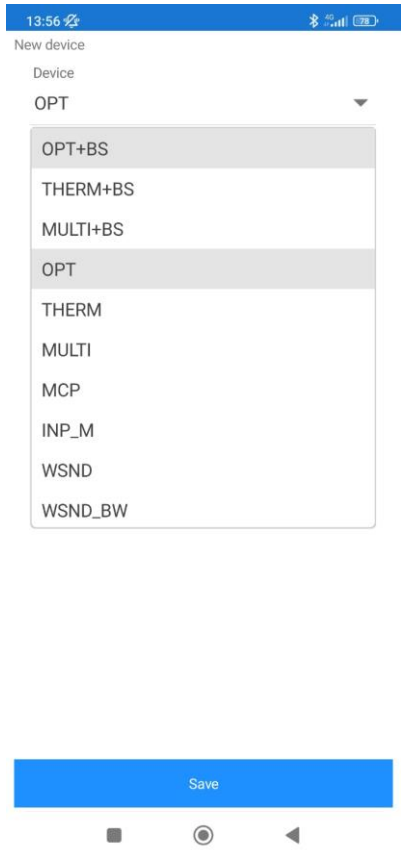
Now you have to add a translator on the system



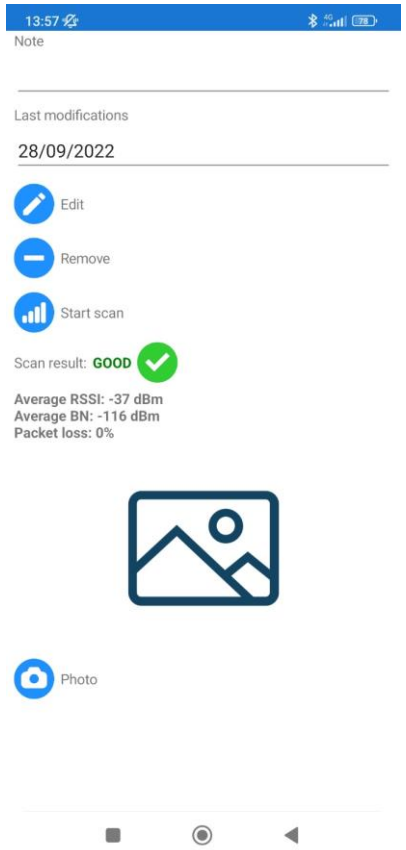
Click «**Start Scan**» in order to search the network channels

FireVibes Survey App

Now you can add a child clicking on **ADD DEVICE**



Select the simulated device type



Click «**START SCAN**» to check the link in the child desired installation location

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