NAT 1

v.1.0

LAN/Wi-Fi Operation

NAT 1 LAN/Wi-Fi Operation Mode

Wi-Fi and LAN operating mode with **NAT 1** requires prior configuration through an external application.
The **NAT 1** instruction manual tells you how to enable both modes on your device. To remember, after powering the device, after a few seconds, **NAT 1** is automatically opened in Wi-Fi mode, leaving its LED on the front panel on. If we have used NAT 1 previously in any other mode (Bluetooth, USB, Line IN), press the front button until the Wi-Fi LED turns on.
If **NAT 1** already has a network cable connected to its LAN port, this mode will take priority over Wi-Fi mode.
From this point we are going to configure it.
Firstly, download the free **4STREAM** app which will help you set up the device.

BRIEF INTRODUCTION

LAN/Wi-Fi connectivity in **NAT 1** has two variants. In the first, the most basic, we configure each **NAT 1** separately, linking them with a network that will transport the audio from a single external device such as a smartphone, tablet, PC with Wi-Fi function or connected to the same LAN network. They can then be grouped into any number, but always under the premise of an unique audio source.

The other variant allows operating in hotspot mode, that is, an individualized network with password access that **NAT 1** itself is capable of generating.

The practical example of this first variant is the ambient sound system, for example, of an entire office from a single source located in the reception. All **NAT 1** present are controlled from a single point (independent or master volume and audio selection).

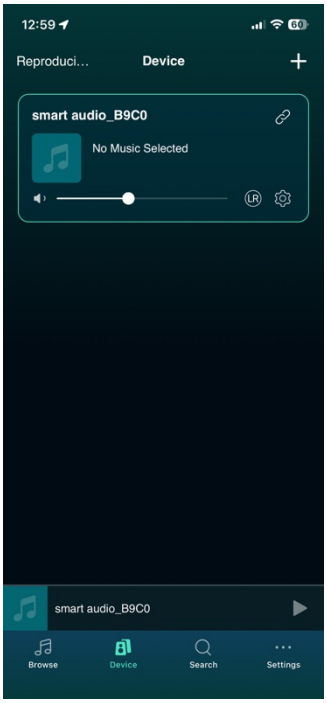
The hotspot variant allows you to customize separate nodes with individualized control of the auto-generated network and the emitted audio. A practical application is the sound system of hotel rooms where the client can play their own music from their smartphone without depending on an external source common to the entire installation.

1. NAT 1 OPERATING WITH AN UNIQUE AUDIO SOURCE

STEP 1

In the Wi-Fi section of the smartphone, we look for the device. **NAT 1** comes by default with a name consisting of **Smart audio_XXXX**.
***NOTE: The name here (SSID) of NAT 1 cannot be changed.**
Within the **4STREAM** application it is possible to rename it for localization purposes (see below)

Select the device and wait until it confirms that it has been paired.



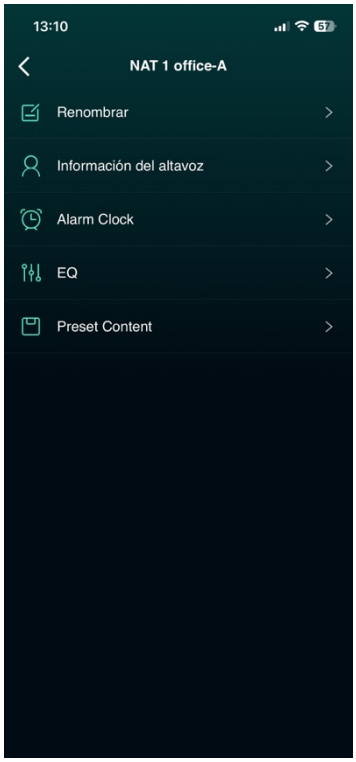
STEP 2

Open the **4STREAM** application. The linked device will appear looking like this and a series of basic controls to configure.

First, let's rename **NAT 1** to easily locate it in an installation with more devices.

To do this, click on the configuration gear icon and it shows us the following options window.

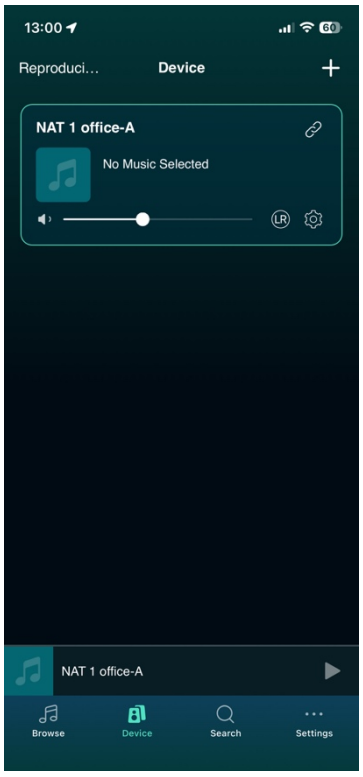
NAT 1 LAN/Wi-Fi Operation Mode



STEP 3

In the first option we can rename the device. We will press and it allows us to write the desired name of the product.

The rest of the functions will be detailed later, but the next option shows us device information. **Alarm Clock** allows you to schedule audio trigger events with the smartphone's internal clock. **EQ** has a basic 2-way equalizer. **Preset Content** allows you to store performance presets.



STEP 4

When we go back after renaming the device, we can see it with the new name.

The next step is to link it to a Wi-Fi network. To do this, click on the **+** icon in the upper right.

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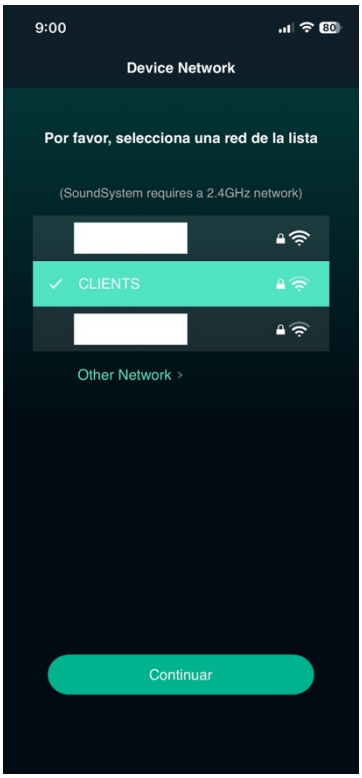
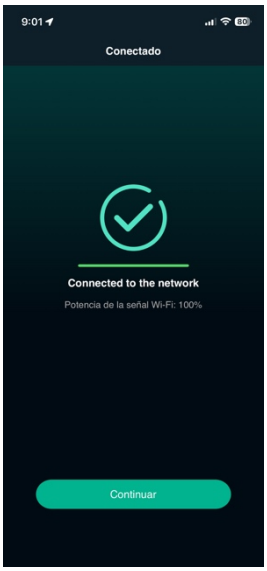
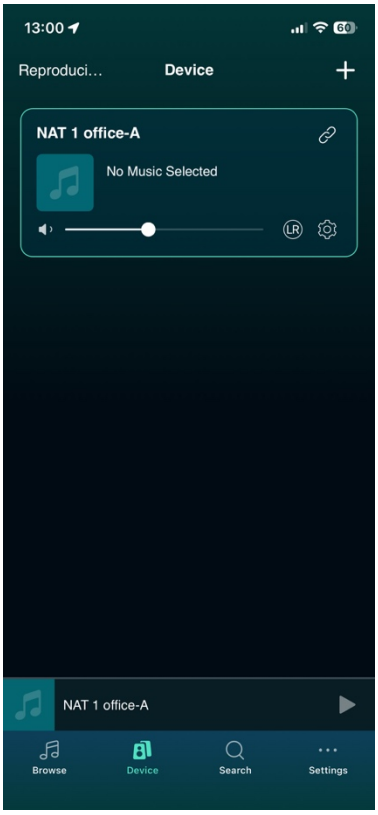


STEP 5

The screen will show the available Wi-Fi networks. Select the appropriate one.

The connection process will start until the smartphone displays the following screen.



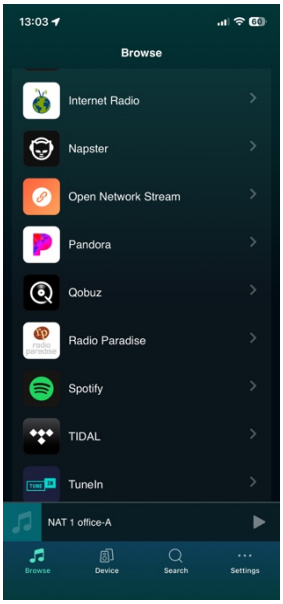


STEP 6

As we can see, there is no audio that can be played. Therefore, we must link a streaming audio source.

To do this, press the **Browse** icon at the bottom left, and it will shows us several examples of apps.

In our case we are going to use the **SPOTIFY** application by clicking on its icon.



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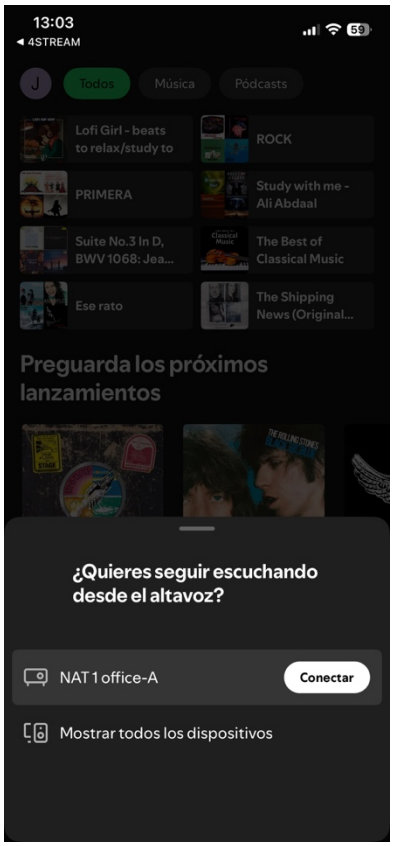
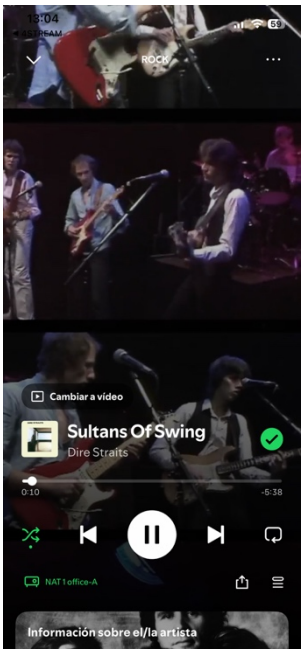
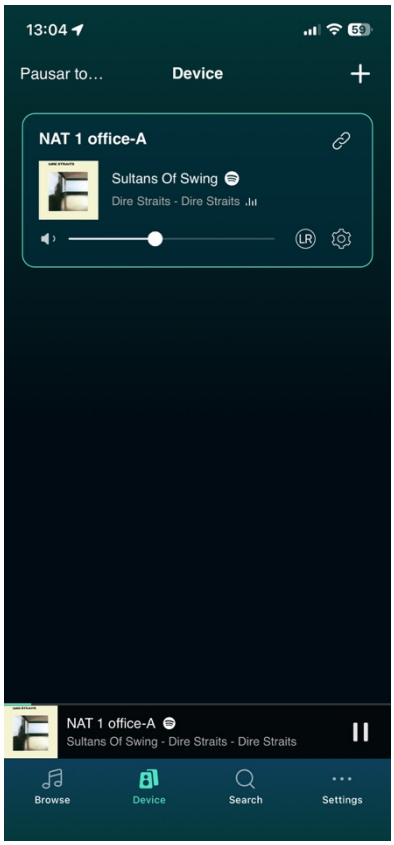


PASO 7

After entering SPOTIFY, it will ask us which linked device we want to play the audio on. It will display the devices found, and in this case we will press the NAT 1 device that we are using.



We can check that the application is already sending audio to the **NAT 1**. If we have it connected to some **RL 5A** speakers through the dip-switches or to an active device through the Pre OUT output, we can listen to it.



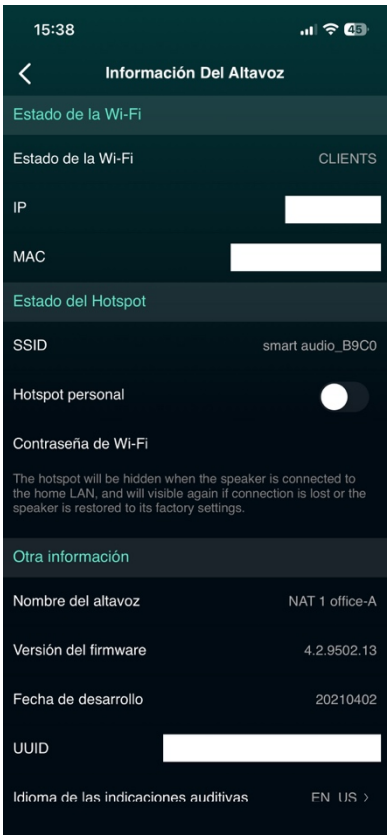
STEP 8

Eventually, we'll be able to go back to the **4STREAM** app and see that **NAT 1** is running the audio, with an album thumbnail, song information, and a small VU meter next to it. We can also adjust the volume.

NOTE: From the **SPOTIFY** application we can control the track to play or change the playlist. We can also control the gain of the audio that is emitted towards **NAT 1**.

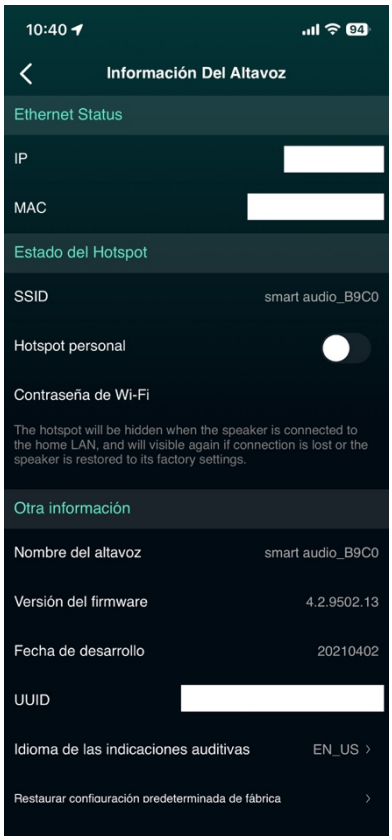
NAT 1 LAN/Wi-Fi Operation Mode

DEVICE INFORMATION



We can access the information of each **NAT 1** at any time by clicking on the gear icon and selecting **Speaker Information**. We will have the following screen:
At the top the information of the Wi-Fi network where **NAT 1** has been linked.

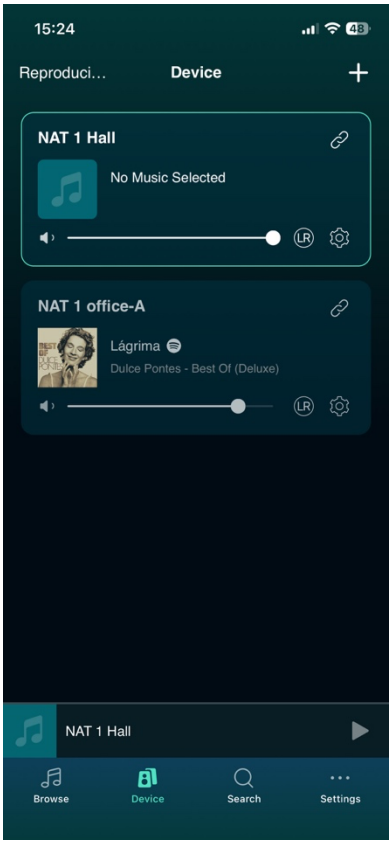
The Hotspot section is disabled at this time. Later we will explain how to configure it under this mode, so we will make each of the **NAT 1** independent that we have in a multiroom installation.



LAN

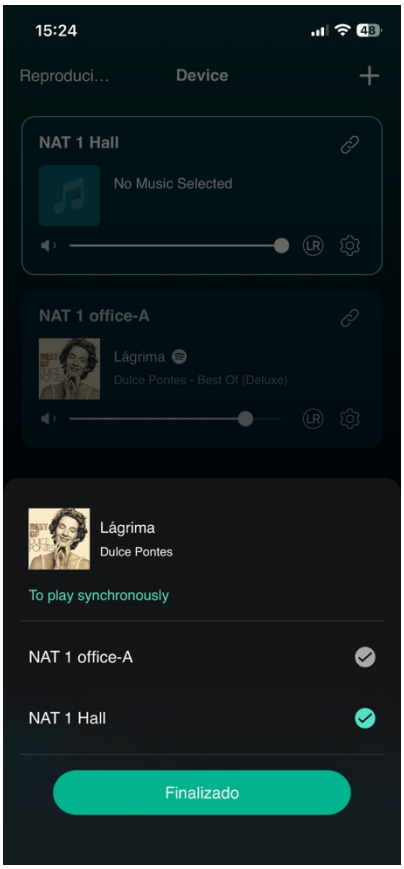
When the device is connected via LAN, the corresponding information will appear at the top (Ethernet Status).

LINK TWO OR MORE NAT 1 TO PLAY THE SAME AUDIO SOURCE



We repeat STEPS 1 to 5 with the second **NAT 1** that will also appear with the name **Smart audio XXXX**.

When selecting the same Wi-Fi website as on the first **NAT 1** device, the screen will appear to rename the device as in the previous case.
After doing so, the following screen will appear.



To link both devices, tap the chain link icon in the top right corner of either device.
Then check the device that does not have the tick to pair with each other.
Wait a few seconds while the process lasts. The final result is shown on the following screen.

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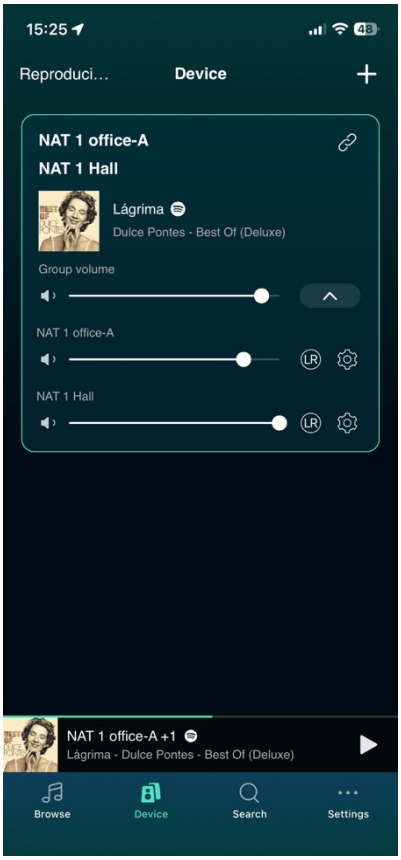
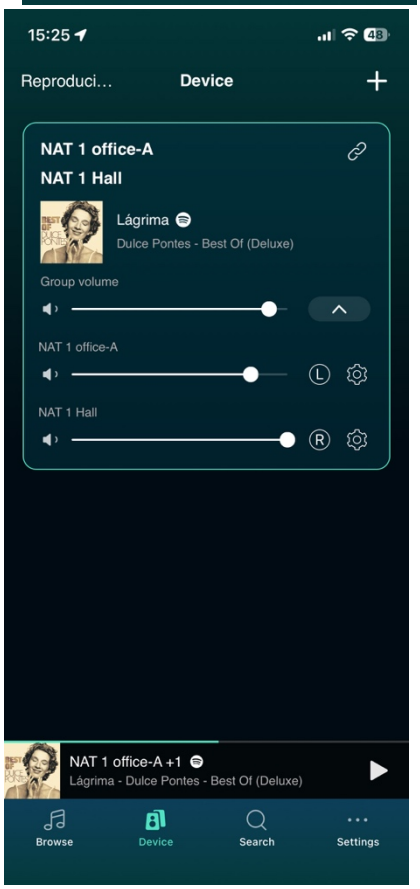


Now both **NAT 1s** are linked and outputting the same audio. We can control the volume individually and also control the general Master.

With this configuration, both **NAT 1s have** output at L and R channels as shown in the small icon next to the volume bar.

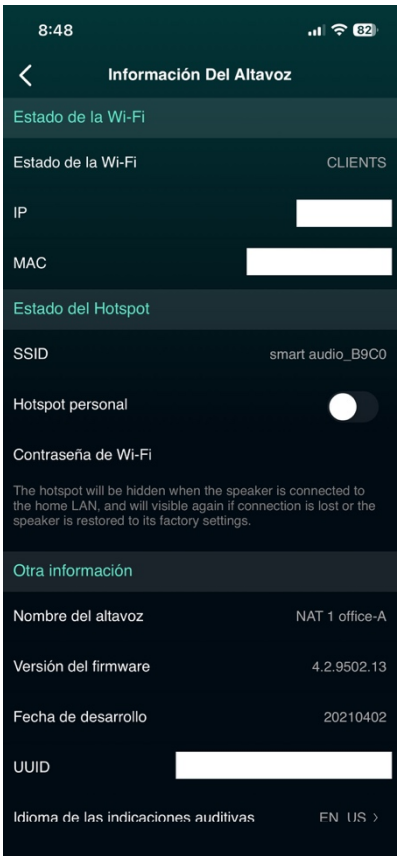


If we click on it, we can choose to broadcast one channel (L), the other (R) or, again, L and R.

2. NAT 1 OPERATING UNDER HOTSPOT MODE

NAT 1 can work in hotspot mode. That is, creating its own network with password access that allows nodes to be made independent, known as the multi-room concept.

If it is the first time that we connect to the device, we must perform steps 1 to 5 seen above to link NAT 1 to the smartphone and a Wi-Fi network.
From here we are going to configure our own private network.



To do this, we enter the device settings within the 4STREAM application and slide the cursor on the Personal Hotspot line to the right.

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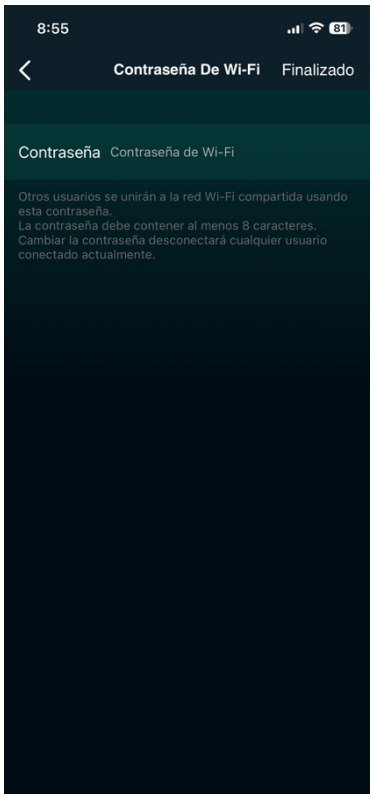
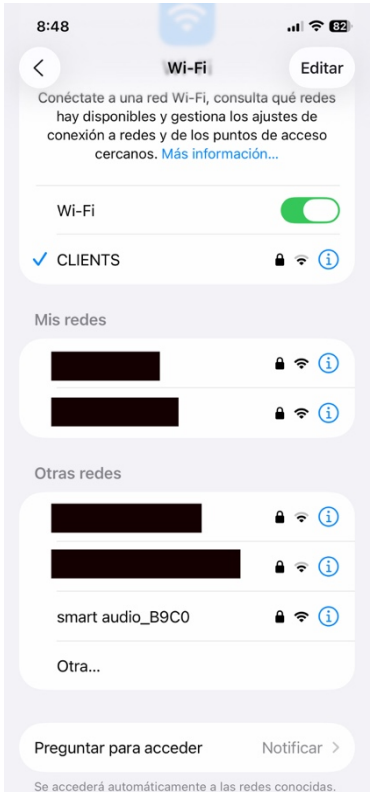


The system will request the introduction of a password to access this network. This credential can be freely defined by the user and will be required each time a connection is established in this mode. Since the password is not permanently stored on the device, there is no need to remember it; A new one can be generated at each login to the system.

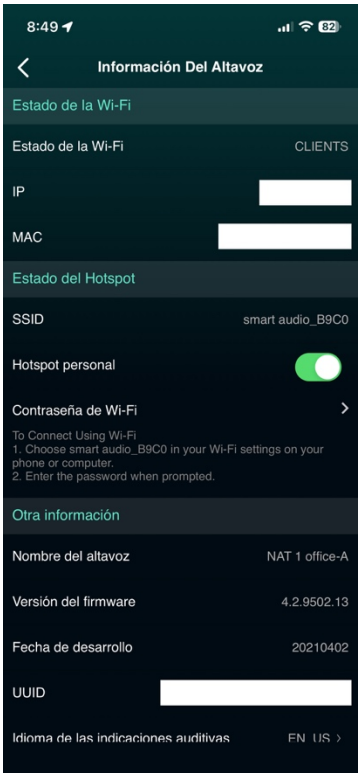


The next step is to go to the smartphone. In the Wi-Fi networks section we locate the created network.

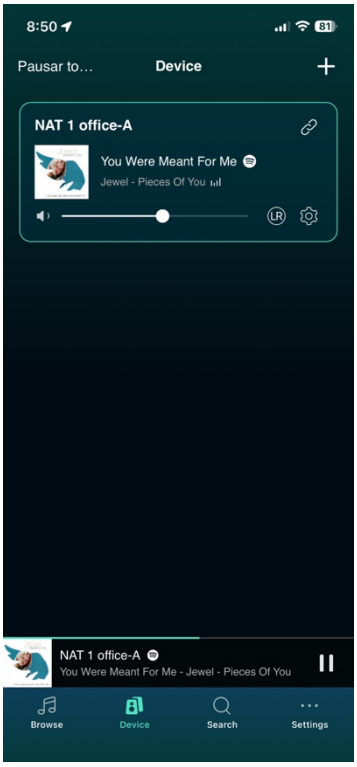
Remember that the name of that network has appeared as **SSID** in the hotspot section of the **NAT 1** information. For this example it will be **Smart audio_B9C0**.

NAT 1 LAN/Wi-Fi Operation Mode

Once the network is selected, we write the password that we have previously created.



After completing this step, if we return to the **4STREAM** application and enter the **NAT 1** information, we will see that the hotspot enable slider button is green, indicating that it operates in this mode.



3. FINAL CONSIDERATIONS

1. In hotspot configuration within Wi-Fi mode, the maximum distance between NAT 1 and the RL 5A speakers should not exceed 50 meters to avoid transmission problems.

2. When 2 or more NAT 1 are grouped, the distance between them should not exceed 30 meters.

3. In the hotspot configuration, both within Wi-Fi or LAN modes, if we want to abandon this configuration, it is necessary to press the rear button of the unit marked (WPS/Reset) or, if we have reduced accessibility, disconnect and connect the power to NAT 1.

WORK
PRO

EQUIPSON, S.A.

Avda. El Saler, 14 Pol. Ind. L´Alteró

46460- SILLA

Valencia – Spain

www.equipson.es support@equipson.es