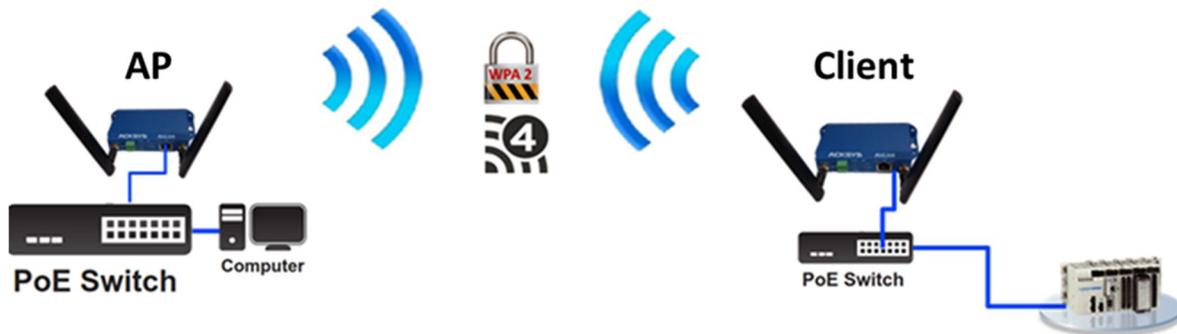# APPLICATION NOTE

APNUS014 Ethernet AIRPACK
*The easy bridging solution
with two AirLink-V2*

February 2019

PRINCIPLE AND CONCEPT OF ETHERNET AIRPACK

The concept of AIRPACK Ethernet is to provide a secure wireless solution, fast and easy to install, to create a wireless bridge between two Ethernet devices, or between two LANs, simply by programming two Airlink_v2 using the configuration files provided

The proposed configuration is as follows

- **802.11a+n** mode (5GHz band)
- Automatic channel selection among channels **36, 40, 44, 48** (HT20)
- SSID **acksys**
- Security **WPA2**
- AP on **192.168.1.253**, Client on **192.168.1.252**

BEFORE STARTING

System requirement

- A computer running Windows, with an Ethernet port
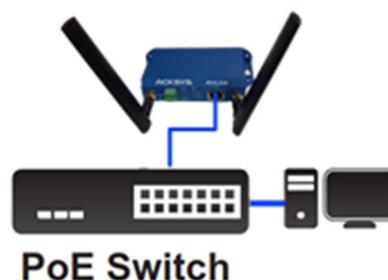- An internet WEB browser
- Two Airlink_V2

Download *WaveManager* and the file **Ethernet_Air-PACK_US.zip** from ACKSYS Web site (*http://www.acksys.com*)

WaveManager is the administration software that will allow you to download in the products the two configuration files contained in the ZIP.
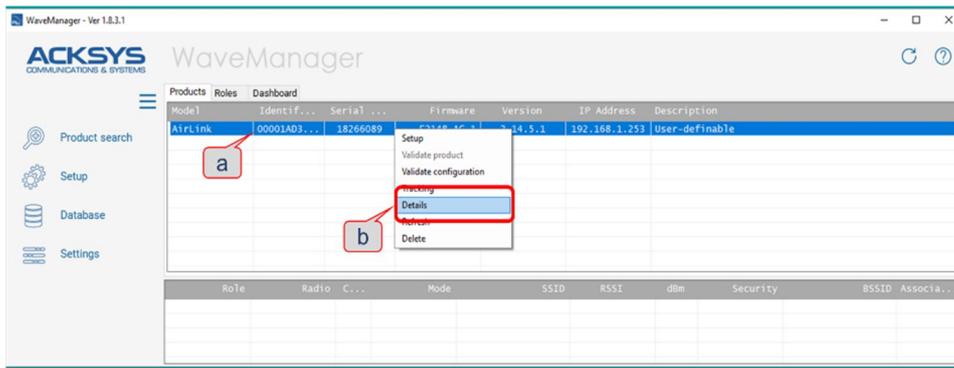
STEP1   CLIENT CONFIGURATION

The default address of the Airlink-v2 is **192.168.1.253**. Set the network interface of your PC to a compatible address, for example **192.168.1.10**
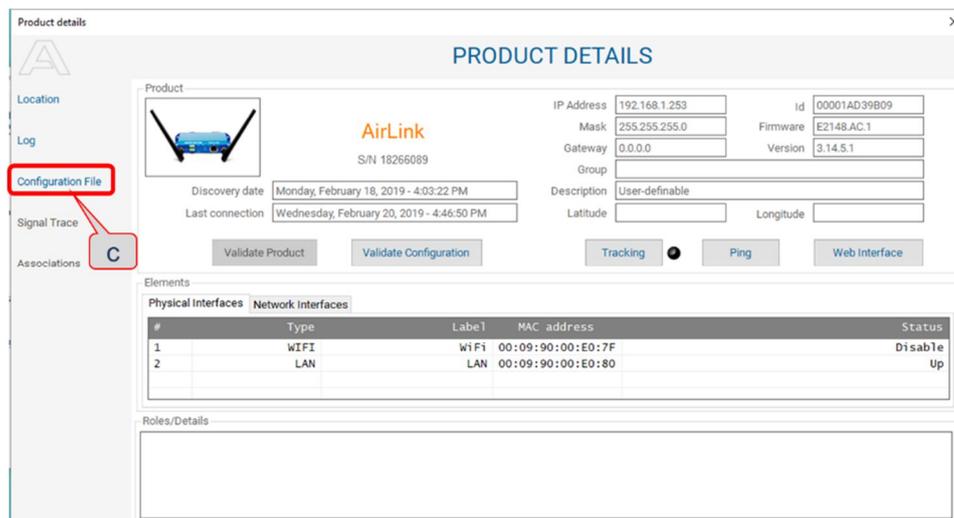
You can then connect one of the Airlink-v2 on your PC and then run **WaveManager**
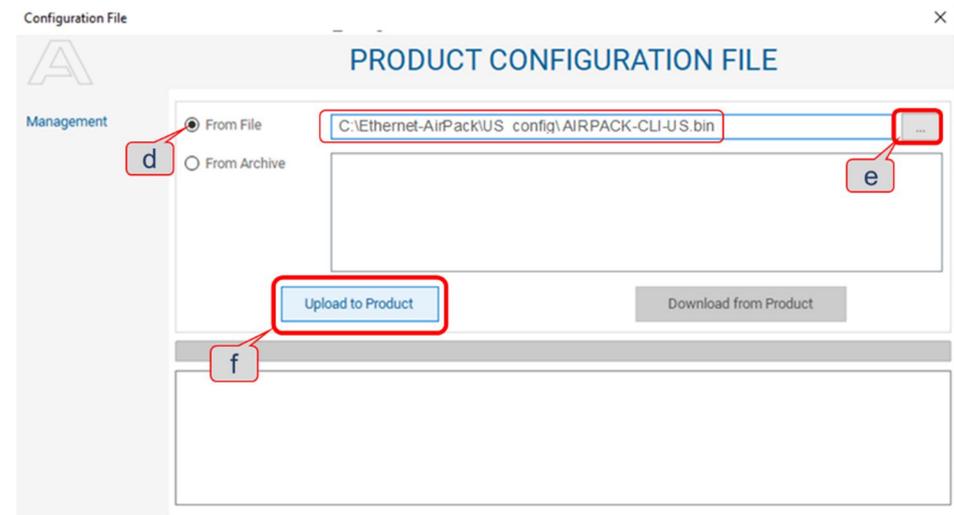
Follow the steps below:

a. Find your device in the **Products** tab
b. Select it using the right mouse button and click on **Details**

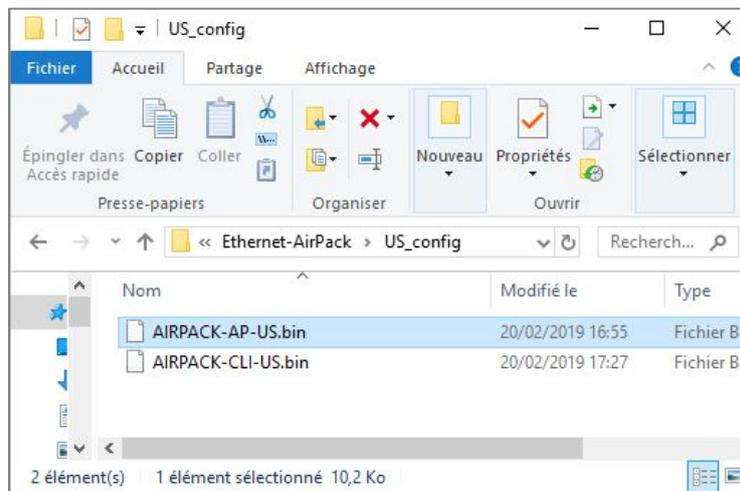c. On **PRODUCT DETAILS** menu, click on **Configuration file**

d. Click on **From File**
e. Click on the button and find on your PC the configuration file **AIRPACK-CLI-US.bin** extracted from the ZIP
f. Click on **Upload to Product**

☞   **Client** is configured and reboot. The client IP address is now **192.168.1.252.**

STEP 2   AP CONFIGURATION

Disconnect the client from the PC and connect the second Airlink-V2.
Repeat steps **a** to **f** from the previous section, using the configuration file **AIRPACK-AP-US.bin**
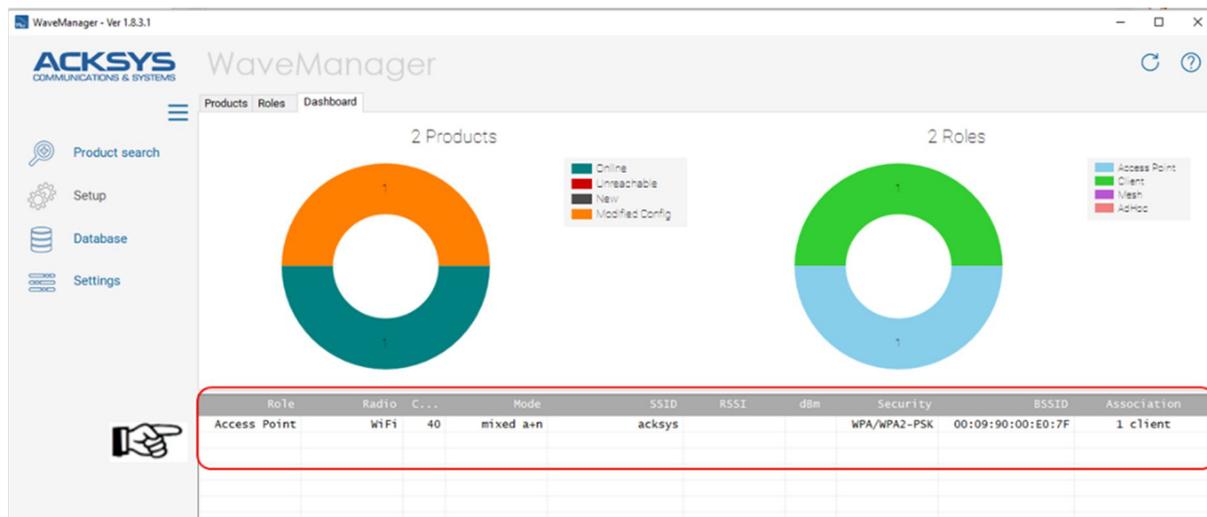

👉   **AP** is configured and reboot. The IP address of the AP remains **192.168.1.253**

VERIFICATION

In **WaveManager**, select **Dashboard tab**, and take a look at the status of the Access Point.
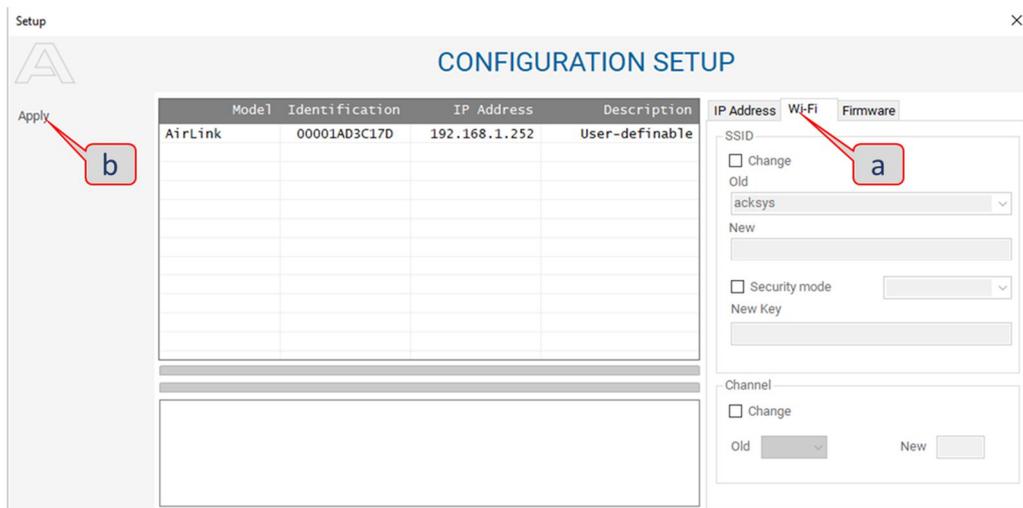If all is correct, the Client appears associated to the Access Point

THE OPTIONAL CONFIGURATION

If you wish, you can change some configuration settings such as Wi-Fi channel, SSID or security mode, with the help of **WaveManager**

For example, if you want to change the SSID:

> ➢ For convenience, apply the changes at first on the remote unit.
> ➢ Select the unit in the **Products tab** and click on **Setup**.
> ➢ Select **Wi-Fi tab** and make your change (a)
> ➢ Click on **Apply**. (b)

👉 **Once the remote unit is configured don't forget to configure the other device**

⚠️ **If you use your Ethernet AIRPACK in a country other than the United States, you must change the country from the configuration web pages.**
Please refer to the *WaveOS User's Guide*