

AC Cloud Control

Device Configuration

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Important User Information

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1. Overview

About this document

This document describes the Wi-Fi network configuration process of the Intesis AC Cloud Control device (hereafter referred to as “AC Cloud Control”) using Bluetooth. It also describes the device toggle button functionalities and the meaning of the AC Cloud Control LED colors.

About the solution

The AC Cloud Control is the perfect IoT solution for professional AC management. Developed in collaboration with the main AC manufacturers, the AC Cloud Control enables the control of any domestic, commercial or VRF unit from a mobile application or from any web browser.

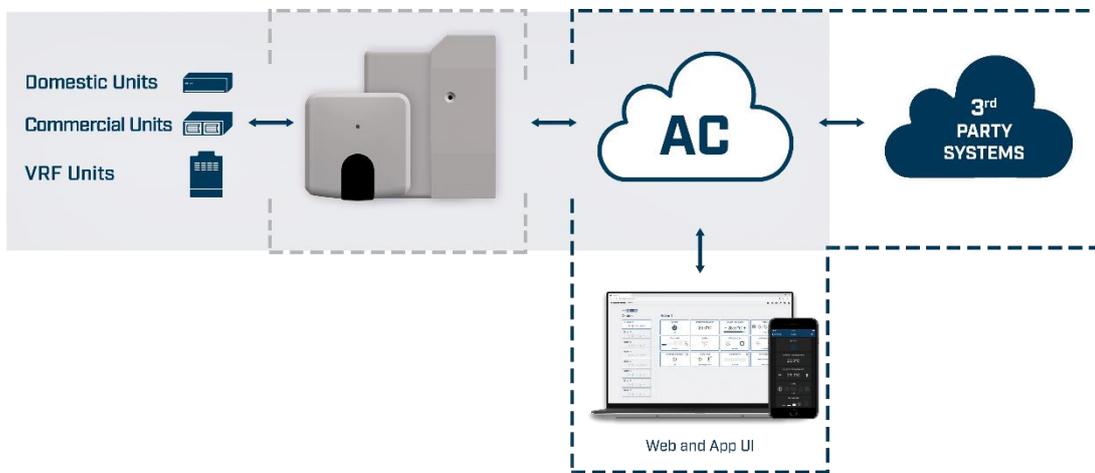


Figure 1.- AC Cloud Control integration.

Before starting

Be sure you have everything you need for the configuration process:

- **AC Cloud Control device**
The AC Cloud Control generates its own network named DEVICE_XXXXXX or INTESISHOME_XXXXXX¹.



Figure 2.- AC Cloud Control device.



IMPORTANT: Make sure you have the proper AC Cloud Control. It depends on the Indoor Unit model. Check the [Intesis AC Compatibility tool](#).

¹ Being XXXXXX the last 6 digits of AC Cloud Control MAC address.

- **Access point**

The AC Cloud Control supports the 2.4GHz band and the 802.11 b/g or /n mode.



Figure 3.- Access point

If the AC Cloud Control network generated is INTESISHOME_XXXXXX, your Access point must allow b mode.

- **Smart device**

Android and iOS operative systems are supported.

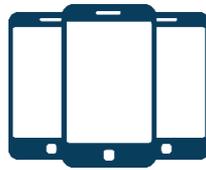


Figure 4.- Smart device

- **AC Cloud Control App**

Download and install it in your smart device.



Figure 5.- AC Cloud Control App.

Keep your smart device close to the Access point and the AC Cloud Control. Connect your smart device to the AC Cloud Control network to start the configuration process.

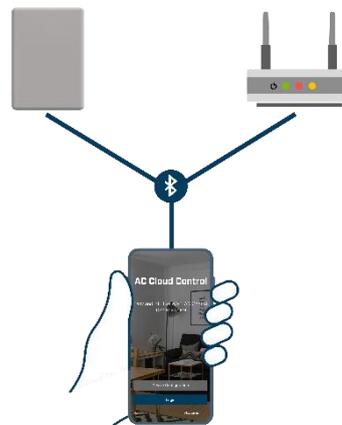


Figure 6.- Getting started.



IMPORTANT: Note that a weak signal might lead the AC Cloud Control to intermittent disconnections. If you don't have enough signal strength, keep the smart device close to the router.

2. AC Cloud Control device

Description

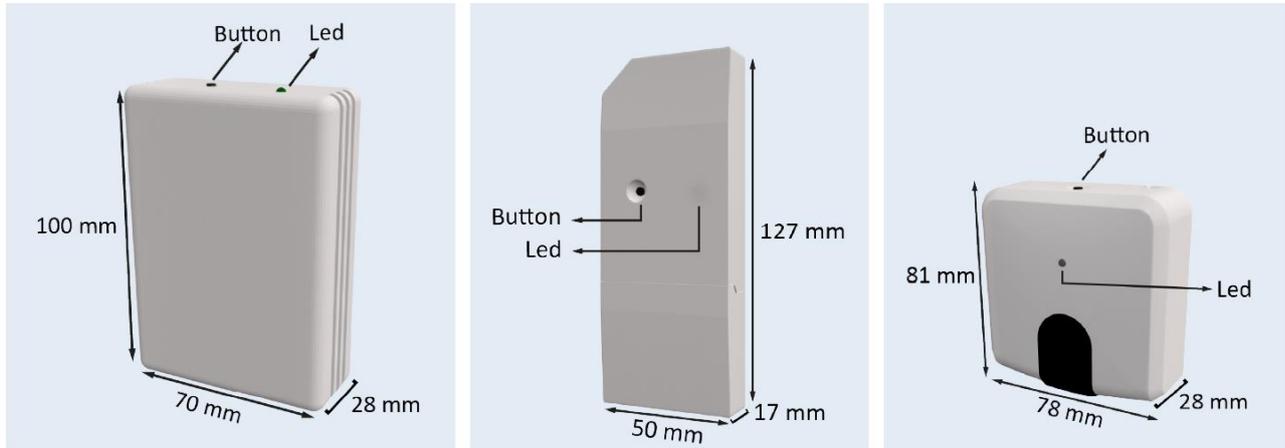


Figure 7.- AC Cloud Control devices

AC Cloud Control button

To know the functionality of this button, see [Shortcuts section](#).

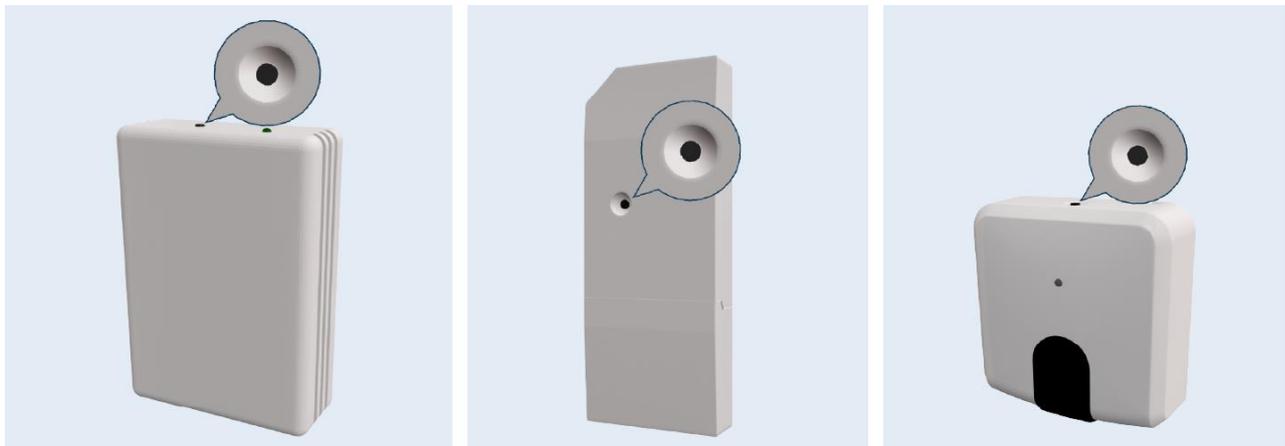


Figure 8.- AC Cloud Control toggle button.

3. Linking the AC Cloud Control to the Wi-Fi

There are two ways to start the configuration of the AC Cloud Control:

- a) **If you are not logged into the App:** Tap on **Device configuration** on the App main screen.

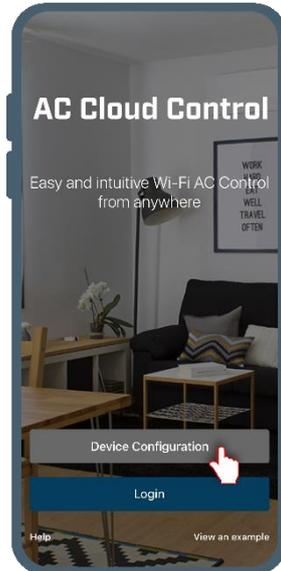


Figure 9.- AC Cloud Control App - main screen.

- b) **If you are already logged in:** Go to **Settings** and select the **AC Cloud Control+** icon.

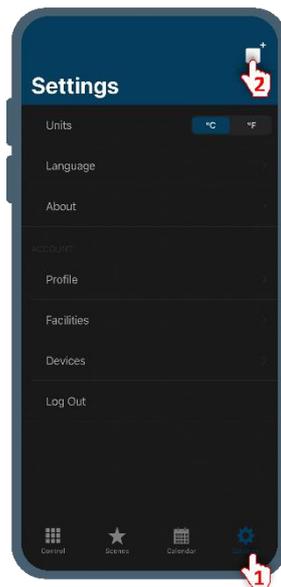


Figure 10.- AC Cloud Control App - settings menu.



Important: This configuration guide applies to AC Cloud Control devices with order codes **INWIFXXX001I0XX** or **INWFIFXXX001R0XX**. For different order code, see the [Device Configuration with Bluetooth manual](#).

The App will show you instructions to prepare the configuration. Be sure that the AC Cloud Control is in configuration mode (LED steady green). Then, select **Wi-Fi**.



Figure 11.- Wi-Fi configuration – Wi-Fi.

The App will show you instructions to connect your smart device to the AC Cloud Control network.



IMPORTANT: If you are not connected to the AC Cloud Control network, a message will pop-up asking you to connect to it.

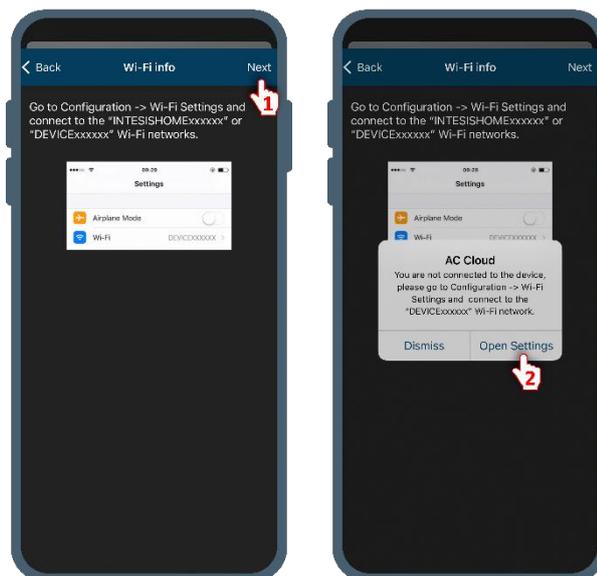


Figure 12.- AC Cloud Control network information and signal error.

If the name of the AC Cloud Control network is INTESISHOME_XXXXXX, a message will pop-up asking you to check your domain region configuration. To change the domain region, see [Advance configuration section](#).

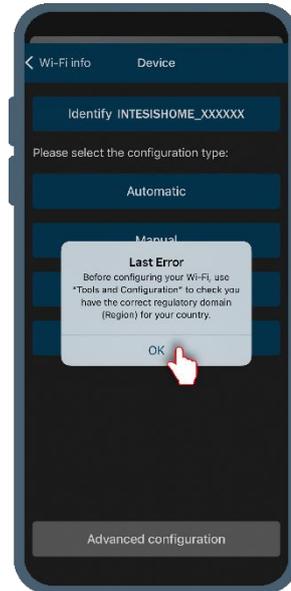


Figure 13.- Domain region warning.

When having multiple AC Cloud Control devices on the installation, you can easily recognize them by tapping on **Identify DEVICE_XXXXXX**. The LED will blink white, and a message will pop-up.

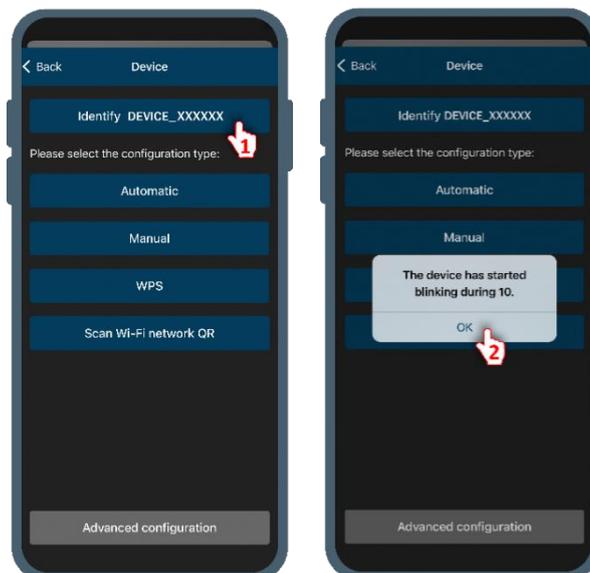


Figure 14.- Identify the AC Cloud Control.

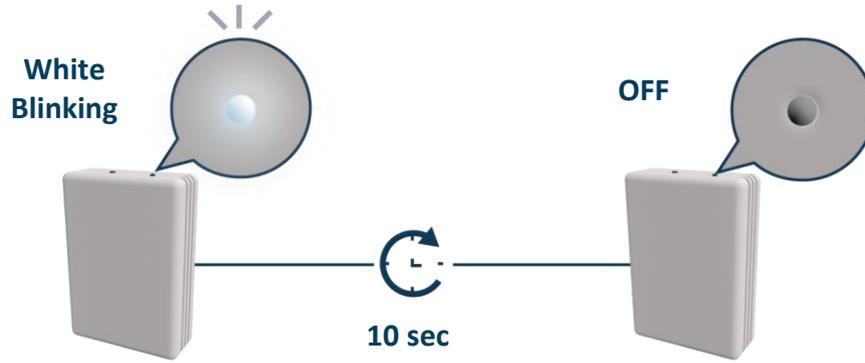


Figure 15.- The AC Cloud Control is identified.

4. Connection to the Wi-Fi network

There are different options to link the AC Cloud Control to a Wi-Fi network:

Automatic

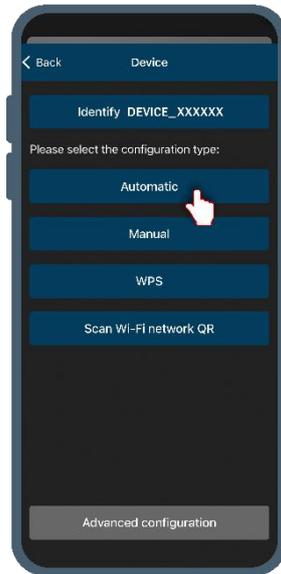


Figure 16.- Configuration screen.

Select the Wi-Fi network SSID from the list to link the AC Cloud Control, fill in the password and **Connect**.

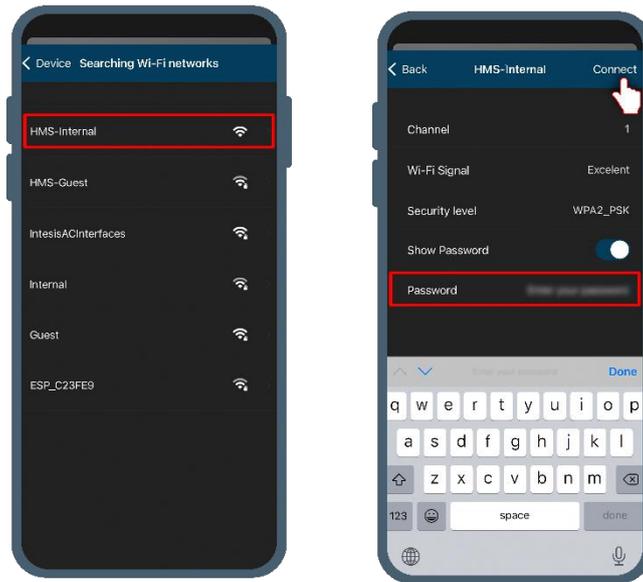


Figure 17.- Wi-Fi Network selection

The AC Cloud Control will connect to the cloud server. Depending on the communication phase, the LED will blink accordingly:



Figure 18.- Lighting Wi-Fi Configuration sequence.

 **Important:** When the LED turns off, the configuration process has been successfully completed.

If any error occurs during the configuration process, the LED will keep blinking. See the [LED color code during Wi-Fi configuration table](#).

Manual

Select **Manual**, type the Wi-Fi network's **SSID** and **Connect**.

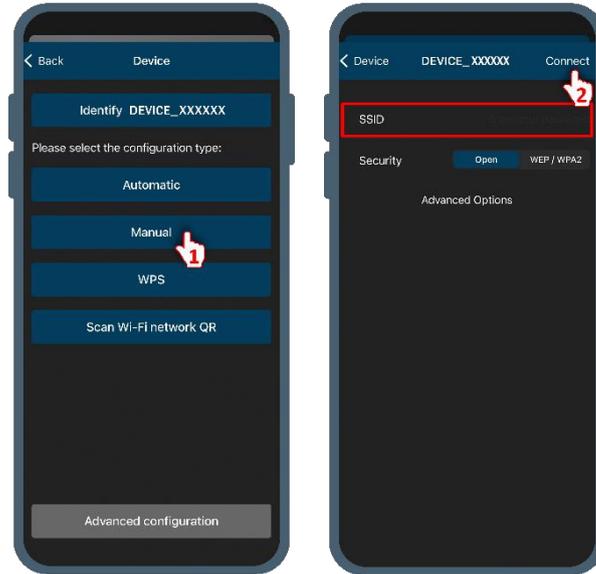


Figure 19.- Manual Wi-Fi configuration

If you are using **Security WEP/WAP2** or **Host Static IP**, fill in the mandatory and tap the **Connect** button.

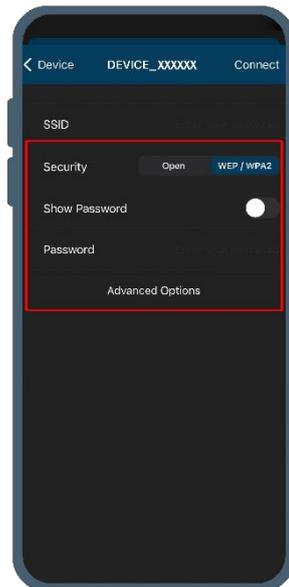


Figure 20.- Security WEP/WAP2.

In **Advanced Options** you can change the Host configuration, which by default is DHCP. Select **Host Static IP**, fill in the mandatory information, then save and the App will take you back to the previous screen. Tap the **Connect** button.

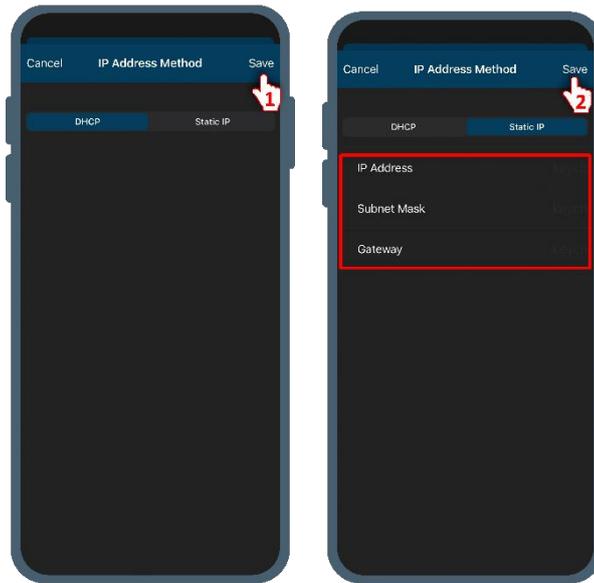


Figure 21.- Host Configuration.

The AC Cloud Control will connect to the cloud server. Depending on the communication phase, the LED will blink accordingly. For more details See [Figure 18](#).



Important: When the LED turns off, the configuration process has been successfully completed.

If any error occurs during the configuration process, the LED will keep blinking. See the [LED color code during Wi-Fi configuration table](#).

WPS

The AC Cloud Control can be configured using WPS by selecting **WPS option** and then **Connect**.

The AC Cloud Control can be set on WPS mode using the AC Cloud Control button as described in [WPS mode activation](#).

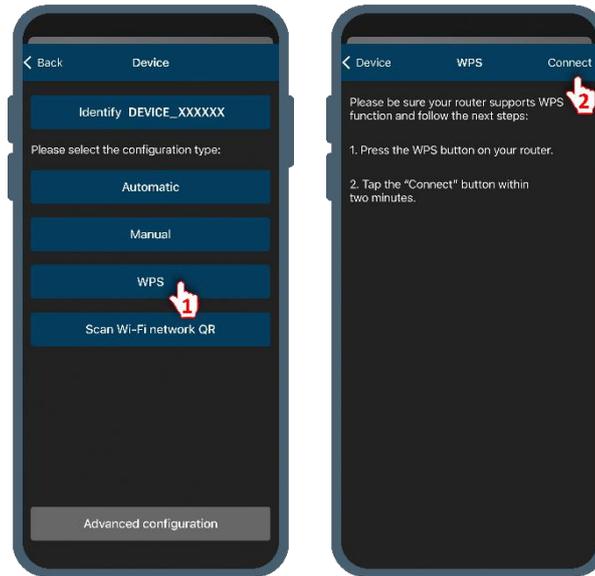


Figure 22.- WPS Wi-Fi configuration.

The LED will blink blue for two minutes, during that time you must press the WPS button on your Access point.

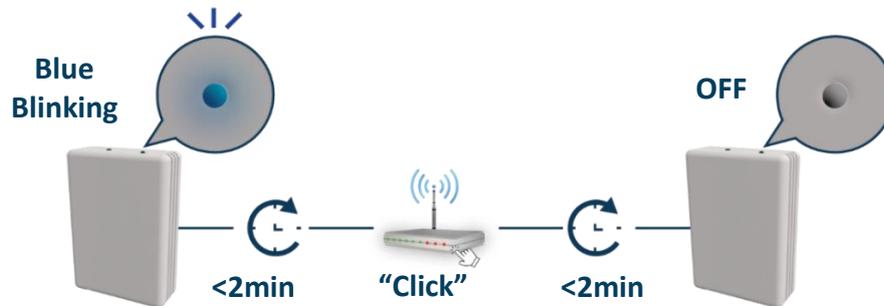


Figure 23.- WPS configuration LED feedback.

The AC Cloud Control will connect to the cloud server. Depending on the communication phase, the LED will blink accordingly:



Figure 24.- Lighting Wi-Fi Configuration sequence WPS mode.

 **Important:** When the LED turns off, the configuration process has been successfully completed.

If any error occurs during the configuration process, the LED will keep blinking. See the [LED color code during Wi-Fi configuration table](#).

Scan a Wi-Fi network QR code

Tap on **Scan Wi-Fi network QR** and aim your smart device camera to the QR code. You must scan a QR code generated with the correct access credentials, otherwise the Wi-Fi access will not be granted.

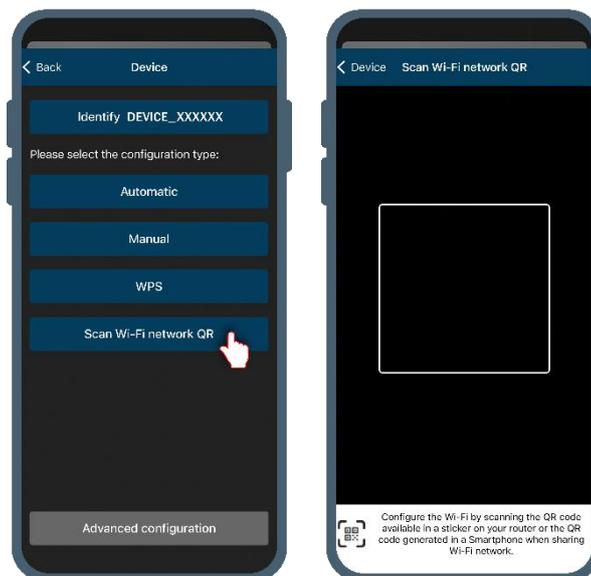


Figure 25.- Scan a Wi-Fi network QR code

The AC Cloud Control will connect to the cloud server. Depending on the communication phase, the LED will blink accordingly. For more details See [Figure 18](#).



Important: Important: When the LED turns off, the configuration process has been successfully completed.

If any error occurs during the configuration process, the LED will keep blinking. See the [LED color code during Wi-Fi configuration table](#).

Advanced Configuration

The AC Cloud Control can be configured in 3 different RF Modes:

- USA: 2412 – 2462 MHz (11 channels)
- Europe: 2412 – 2472 MHz (13 channels)
- Japan: 2412 – 2484 MHz (14 channels)

The factory settings are set to work in the most restrictive mode, USA: 2412 – 2462 MHz. Therefore, if you don't change any of these parameters, the AC Cloud Control is compliant with the most restrictive RF regulations.

Tap on **Advanced configuration** to select the domain **Region** where the AC Cloud Control is located and **Save**.

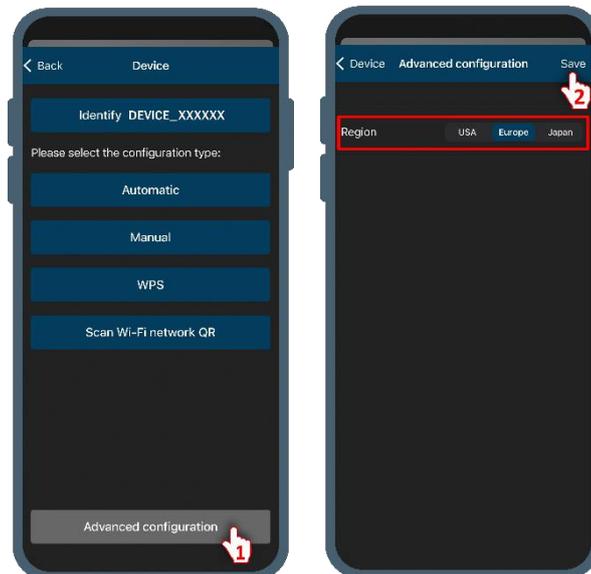


Figure 26.- Domain region configuration

A warning will pop-up informing possible issues when selecting the wrong domain region.



Important: In case the domain region is changed, a message will pop-up informing that AC Cloud Control will be rebooted and is needed to re-start the Wi-Fi configuration.

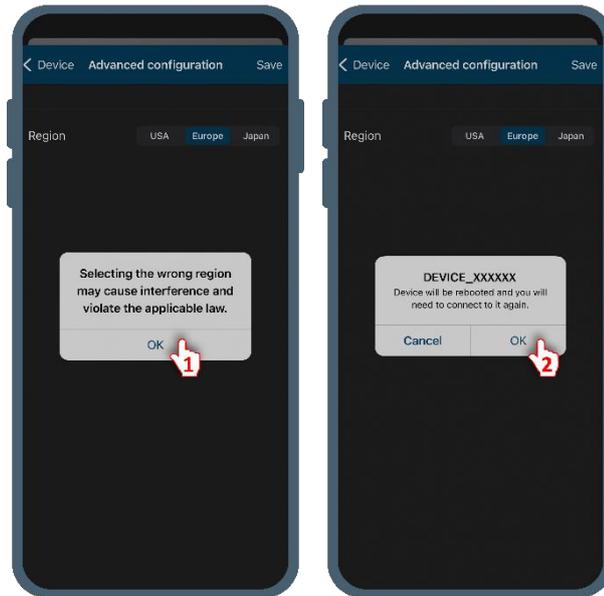


Figure 27.- Domain region configuration warning and rebooting message.

5. LED color code

The AC Cloud Control uses the LED to provide feedback about its status and possible errors.

LED color code during the Wi-Fi configuration

LED Color (s)	Behavior	Description
Blue	Blinking	Performing WPS connection (up to 2 min)
White	Blinking	Identifying the AC Cloud Control
Green	Steady	Not configured
Green	Blinking	Checking the AC Cloud Control configuration parameter values (up to 2 min)
Red	Blinking	Connecting to the Access point and server (up to 2 min)
Yellow	Blinking	Downloading configuration (up to 2 min)
Red - Green	Alternate blinking	Error Connecting to the Access point or router. Try to connect again and make sure you write the correct password.
Yellow - Green	Alternate blinking	Server not reached. Check if there is Internet connectivity on your Access point or router.

LED color code during IR configuration (Autolearning mode)

 **IMPORTANT:** This color code table only applies to AC Cloud Control devices with the order code **INWFIUNI001I00**. For different order codes dismiss this information.

LED Color	Behavior	Description
White	Steady	Autolearning mode is on. You have up to 20 seconds to push the IR remote controller On/Off button
Green	Blinking	Correct linkage between the IR remote controller and the AC Cloud Control
Red	Blinking	Wrong linkage between the IR remote controller and the AC Cloud Control

LED status during the working mode

 **IMPORTANT:** This color code table only applies to AC Cloud Control devices with the order code **INWFIUNI001I00**. For different order codes dismiss this information.

LED Color	Behavior	Description
Off		The AC Cloud Control is not powered, or the AC Cloud Control is not linked to the Wi-Fi, or the Indoor Unit is Off.
Blue	Steady	Indoor Unit On and working in Cool or Dry mode
Red		Indoor Unit On and working in Heat mode
Green		Indoor Unit On and working in Fan mode
Yellow		Indoor Unit On and working in Auto mode
Cyan		Indoor Unit is working in anti-frost mode
Blue	3 blinks	Command received or sent during Cool or Dry mode
Red		Command received or sent during Heat mode
Green		Command received or sent during Fan mode
Yellow		Command received or sent during Auto mode
Cyan		Command sent during anti-frost mode
Red	Blinking	The AC Cloud Control is connecting to the server

6. Shortcuts

This section will describe the AC Cloud Control button which enables a fast and easy configuration, at the same time describes troubleshooting tips.

Reset the Wi-Fi settings or enable the configuration mode

Press and hold the button for 10 seconds, then release it. The LED will blink green, after 10 seconds it will turn steady green, meaning the process is completed and the AC Cloud Control is in configuration mode.

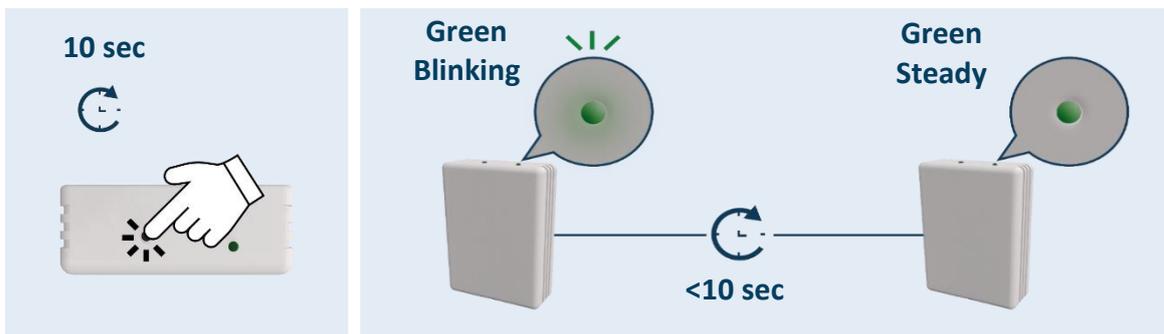


Figure 28.- Reset Wi-Fi settings or enabling configuration mode.

WPS mode activation

Check that your AC Cloud Control is in configuration mode (steady green LED). Press the toggle button, and the LED will blink blue.

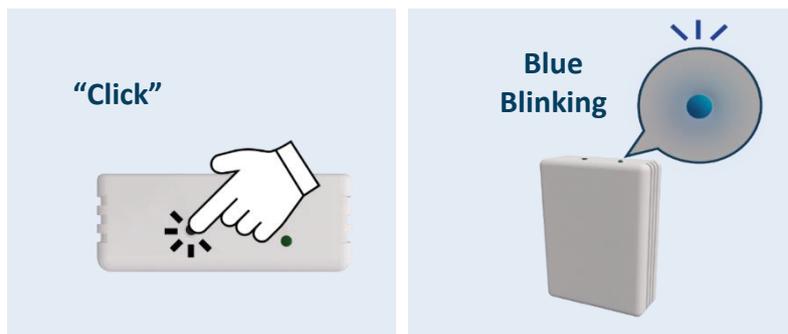


Figure 29.- WPS mode activation - shortcut.

Autolearning

Press and hold the button for 4 seconds, then release it. The LED will turn steady white, meaning that the AC Cloud Control is in Autolearning mode.



IMPORTANT: This function is available for AC Cloud Control devices with the order code **INWFIUNI001I00**.

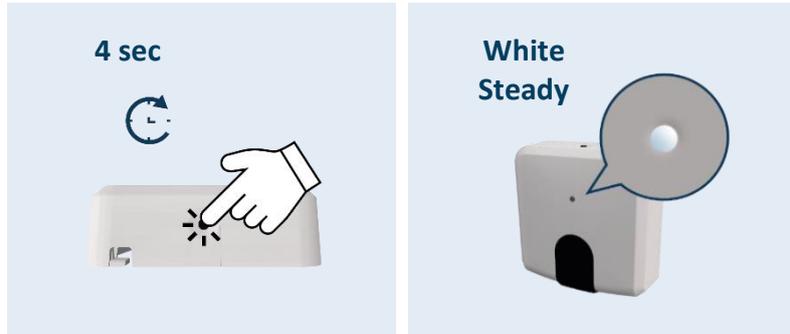


Figure 30.- Enabling the Autolearning mode.

Take the remote controller of the Indoor Unit, aim it at the AC Cloud Control and press the On/Off button.

The LED will blink green. If after 4 seconds the LED turns steady green, the autolearning process has been successfully completed.

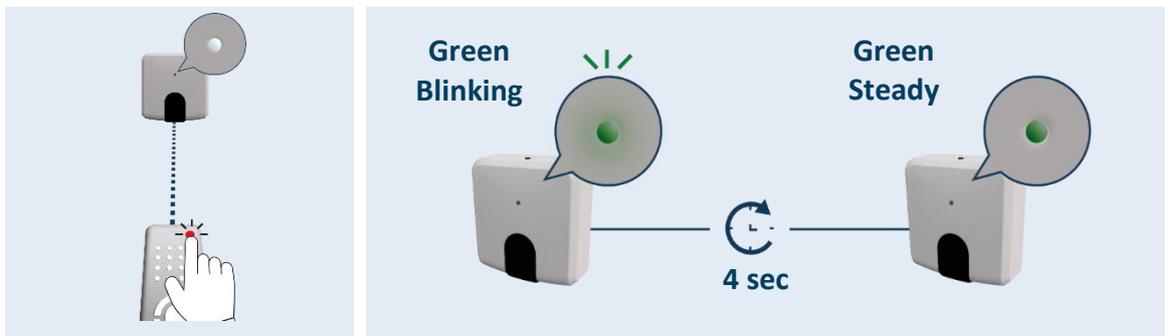


Figure 31.- Autolearning process.

If any error occurs during the autolearning, the LED will turn steady red instead of green, See the [LED color code during IR configuration table](#).