

AC Cloud Control
DEVICE CONFIGURATION WITH WI-FI

USER MANUAL
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1. General Information

This manual focuses on the Wi-Fi network configuration process of the Intesis AC Cloud Control device via Wi-Fi. You can find more guides from specific air conditioning brands on the Intesis website: www.intesis.com/products/cloud-solutions/ac-cloud-control. You can also check some step-by-step video tutorials on [YouTube](#).

1.1. Admonition Messages and Symbols

**DANGER**

Instructions that must be followed to avoid an imminently hazardous situation that, if not avoided, will result in death or severe injury.

**WARNING**

Instructions that must be followed to avoid a potentially hazardous situation that, if not avoided, could result in death or severe injury.

**CAUTION**

Instruction that must be followed to avoid a potentially hazardous situation that, if not avoided, could result in minor or moderate injury.

**IMPORTANT**

Instruction that must be followed to avoid a risk of reduced functionality and/or damage to the equipment or to avoid a network security risk.

**NOTE**

Additional information which may facilitate installation and/or operation.

**TIP**

Helpful advice and suggestions.

**NOTICE**

Remarkable Information.

2. Overview

2.1. About this Document

Throughout this document, you will learn how to:

1. Use the AC Cloud Control mobile app to link the Intesis AC Cloud Control (ACCC) device to a Wi-Fi network using a smart device's Wi-Fi connection.



NOTE

We use *smart device* referring to an iPhone, iPad, or Android smartphone or tablet.

2. Configure the Wi-Fi connection.
3. Understand the ACCC device's LED patterns.

2.2. About the Solution

The devices of the Intesis AC Cloud Control series are the perfect IoT solution for professional air conditioning (AC) management. Developed in collaboration with the main AC manufacturers, the AC Cloud Control (ACCC) devices enable the control of any domestic, commercial, or VRF air conditioning unit from a mobile or web application.

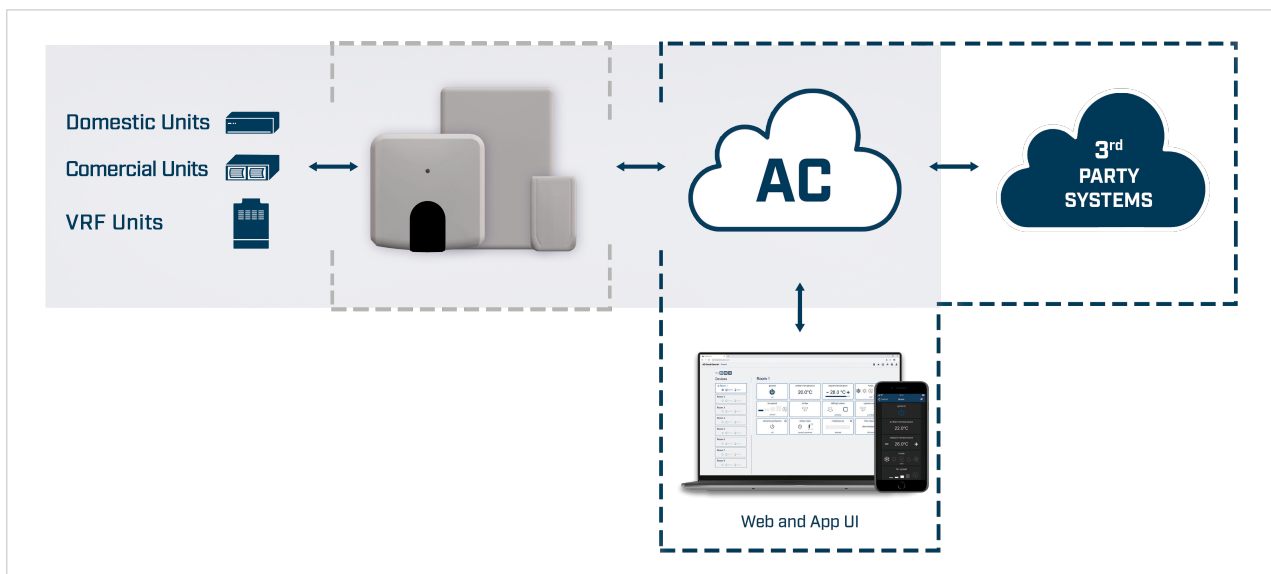


Figure 1. AC Cloud Control device integration

3. Before Starting

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

- AC Cloud Control device

**IMPORTANT**

The ACCC device's model depends on the AC unit type. Make sure you have the proper device by checking the [Intesis AC Compatibility tool](#).

- Wireless network

**NOTE**

Wireless networks are commonly created by a router or an access point. Although you could set a mobile phone as an access point by sharing its data, that is not a recommended procedure and it is not explained in this manual.

**IMPORTANT**

The ACCC device supports the 2.4 GHz band and the 802.11 b/g or /n mode. If the generated network is INTESISHOME_XXXXXX, your access point must allow b mode.

- Smart device with a Wi-Fi connection: Android and iOS operative systems are supported.
- AC Cloud Control app. Download it from:
 - [Google Play](#)
 - [iOS App Store](#)

Before starting the configuration process:

1. Turn off your mobile data.
2. Turn on your mobile Wi-Fi connection.
3. Keep your smart device close to the access point and the ACCC device.

**IMPORTANT**

A weak signal might cause intermittent disconnections to the ACCC device.

4. Linking the ACCC Device to the Wi-Fi Network

1. Open the AC Cloud Control app.
2. On the app's main screen, tap the **Device Configuration** button.

**NOTE**

If you are already logged in, you can access the configuration screen by clicking the device icon on the upper-right corner of the **Settings** screen.

On the Configuration screen, you will be prompted to set the ACCC device in configuration mode (if it is not in this mode yet). To do so:

- a. Press and hold the ACCC device button for 10 seconds.
- b. Release it.

**NOTE**

The LED will blink green; after 10 seconds, it will turn steady green.

3. Tap the **Wi-Fi** button.
The AC Cloud Control app will show you instructions on how to connect the ACCC device to the AC Cloud Control network.
4. Select from the list the ACCC device you want to connect.
If you are not sure which device you are linking, check the last six digits of the serial number you will find on the silver label at the rear side of the ACCC device.



Figure 2. Find the serial number (SN) below the barcode

**TIP**

When having multiple ACCC devices on an installation, you can easily locate each one by tapping on the **Identify INTESIS_XXXXXX¹** button. The LED of that specific ACCC device will blink white for 10 seconds, allowing you to discover it.

¹XXXXXX are the last six digits of the ACCC device serial number.

5. Configuring the Wi-Fi Connection

Once connected to the Wi-Fi network, you have to configure it. There are different ways to do so.

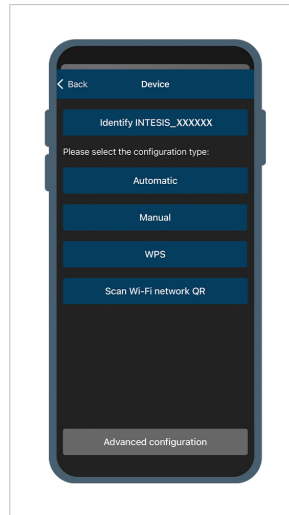


Figure 3. **Device** screen with the four configuration types

5.1. Automatic

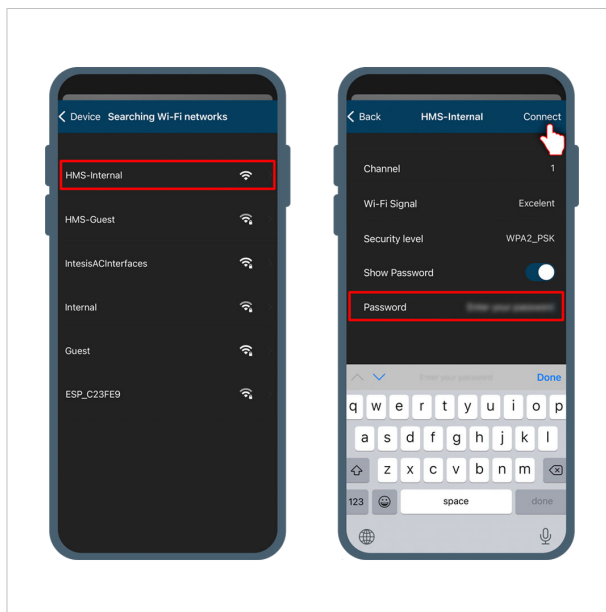


Figure 4. Wi-Fi network selection

1. On the **Device** screen, tap **Automatic**. The app will search all available Wi-Fi networks and list them.
2. Examine the list and tap the Wi-Fi network you want to connect to.
3. Type the network's **Password**.
4. Tap the **Connect** button.

After this procedure, the ACCC device will connect to the cloud server. Depending on the communication phase, the LED will blink accordingly:

- Steady green.
- Blinking green: Checking the configuration parameters.
- Blinking yellow: Downloading the configuration.
- Blinking red: Connecting to the server.

- Off: The ACCC device is connected and working.



IMPORTANT

If any error occurs during the configuration process, the LED will keep blinking. See [LED Behavior \(page 12\)](#).

5.2. Manual

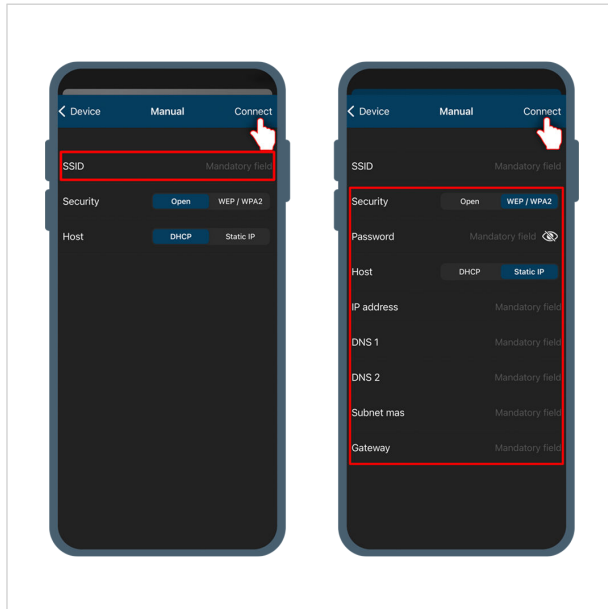


Figure 5. Manual configuration for an open and secured network.

1. On the **Device** screen, tap **Manual**.
2. On the **SSID** field, type the network's name.
 - a. If you are using an **Open** network, tap the **Connect** button.
 - b. If you are using a **WEP/WPA2** secured network, type the network's **Password** and then tap the **Connect** button.
 - c. If you are using a **Static IP**, fill out the mandatory fields and then tap the **Connect** button.
 - d. If you are using **DHCP**, the IP address and the other parameters will be assigned automatically. Tap the **Connect** button.

After this procedure, the ACCC device will connect to the cloud server. Depending on the communication phase, the LED will blink accordingly:

- Steady green.
- Blinking green: Checking the configuration parameters.
- Blinking yellow: Downloading the configuration.
- Blinking red: Connecting to the server.
- Off: The ACCC device is connected and working.




IMPORTANT

If any error occurs during the configuration process, the LED will keep blinking. See [LED Behavior \(page 12\)](#).

5.3. Wi-Fi Protected Setup (WPS)



NOTE

The router/access point must support the WPS function. If so, it will have a button labeled WPS or with the Wi-Fi protected setup icon 

There are two different ways to use this option:

Using the smart device app:

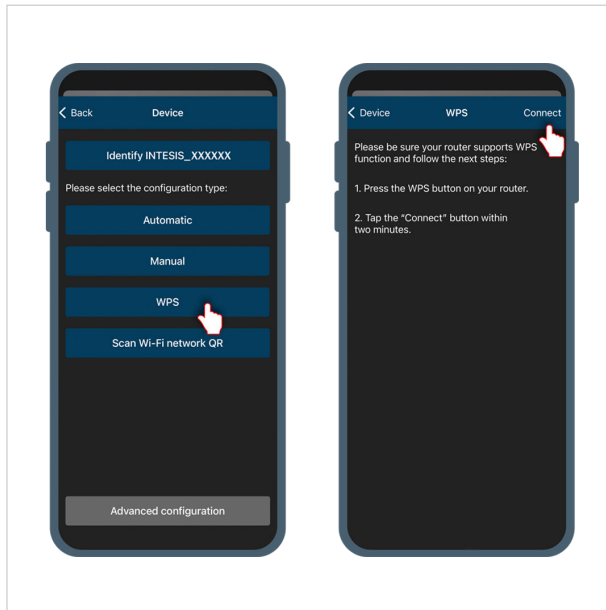


Figure 6. WPS configuration using the app

1. On the **Device** screen, tap **WPS**.
2. Press the router/access point WPS button.



NOTE

Once pressed, you have two minutes to proceed with the next step.

3. Tap the **Connect** button.

After this procedure, the ACCC device will connect to the cloud server. Depending on the communication phase, the LED will blink accordingly:

- Steady green.
- Blinking blue: WPS enabled.
- Blinking green: Checking the configuration parameters.
- Blinking yellow: Downloading the configuration.
- Blinking red: Connecting to the server.
- Off: The ACCC device is connected and working.



IMPORTANT

If any error occurs during the configuration process, the LED will keep blinking. See [LED Behavior \(page 12\)](#).

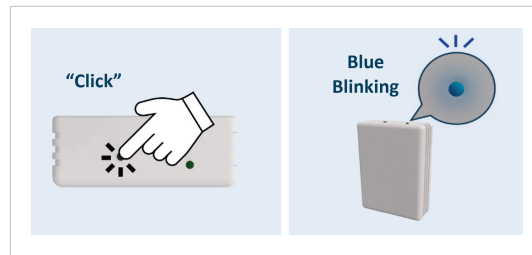
Using the ACCC device's push button:

Figure 7. WPS configuration using the push button

1. Make sure the ACCC device is in configuration mode (steady green).
2. Click the push button.
The ACCC device's LED will blink blue.

After this procedure, the ACCC device will connect to the cloud server. Depending on the communication phase, the LED will blink accordingly:

- Blinking blue: WPS enabled.
- Blinking green: Checking the configuration parameters.
- Blinking yellow: Downloading the configuration.
- Blinking red: Connecting to the server.
- Off: The ACCC device is connected and working.

**IMPORTANT**

If any error occurs during the configuration process, the LED will keep blinking. See [LED Behavior \(page 12\)](#).

5.4. Scan a Wi-Fi Network QR Code

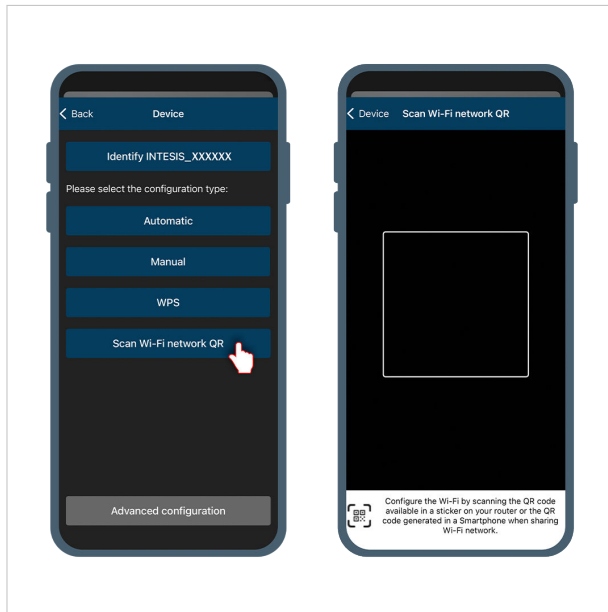


Figure 8. Configuration via QR



NOTE

You need a smart device with a camera to use this function.

1. On the **Device** screen, tap on **Scan Wi-Fi network QR**.
2. Find the router/access point QR code.



NOTE

It is usually printed on a label stuck on the router/access point's bottom.

3. Scan the QR code by aiming your smart device's camera at it.

After this procedure, the ACCC device will connect to the cloud server. Depending on the communication phase, the LED will blink accordingly:

- Steady green.
- Blinking green: Checking the configuration parameters.
- Blinking yellow: Downloading the configuration.
- Blinking red: Connecting to the server.
- Off: The ACCC device is connected and working.



IMPORTANT

If any error occurs during the configuration process, the LED will keep blinking. See [LED Behavior \(page 12\)](#).

6. Advanced Configuration

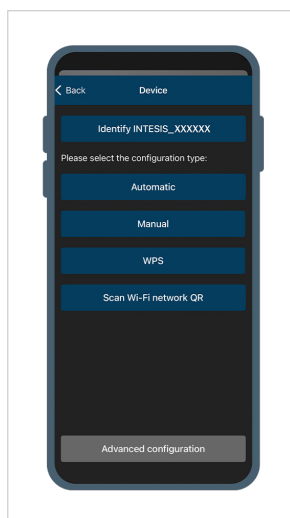


Figure 9. Access the advanced configuration from the **Device** screen.

You can configure the ACCC device according to three different radio frequency (RF) modes:

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



NOTE

By default, the ACCC device is set to work in the lowest RF (USA: 2412 – 2462 MHz), so, as long as you don't change this parameter, it is compliant with the most restrictive RF regulations.

1. On the **Device** screen, tap the **Advanced configuration** button.
2. Select the **Region** you're located in: USA, Europe, or Japan.



NOTE

A warning message will pop up when selecting the wrong domain region.

7. Push Button Functionalities

- Activate the configuration mode:
 1. Press and hold the button for 10 seconds.
 2. Release the button.

**NOTE**

When activating the configuration mode, the LED will blink green; after 10 seconds, it will turn steady green.

- Reset the Wi-Fi settings:

If you have already configured the Wi-Fi parameters and want to delete that configuration, you only have to activate the configuration mode following the above procedure to reset the Wi-Fi settings.
- Activate the WPS mode:
 1. To activate the WPS mode, you must first activate the configuration mode (see the above procedure).
 2. Once the LED is steady green, press the button again (just click it; you don't need to hold it).

**NOTE**

When activating the WPS mode, the LED will blink blue.

- Autolearning function:

**IMPORTANT**

This function is only available for the AC Cloud Control device with the **INWFIUNI001100** order code.

1. Press and hold the button for 4 seconds, then release it. The LED will change to steady white as an indication that the AC Cloud Control device is in autolearning mode.
2. Point the remote controller of the indoor unit towards the AC Cloud Control device and press the on/off button. The LED will blink green, then turn to steady green after four seconds, confirming that the autolearning process has been successfully completed.

**NOTICE**

If any error occurs during the autolearning process, the LED will turn steady red instead of green. See [LED color code during IR configuration \(Autolearning mode\) table \(page 12\)](#).

8. LED Behavior

The ACCC device uses one LED to provide feedback about its status and possible errors.

Table 1. LED color code

Color	Behavior	Description
Blue	Blinking	Performing WPS connection (up to 2 min).
White	Blinking	Identifying the AC Cloud Control device.
Green	Steady	Not configured.
Green	Blinking	Checking the 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 when connecting to the access point or router. Try to connect again and make sure you write the correct password.
Yellow - Green	Alternate blinking	The server was not reached. Check if there is Internet connectivity on your access point or router.

Table 2. LED color code during IR configuration (Autolearning mode)

Color	Behavior	Description
White	Steady	Autolearning mode is on. You have a 20-second interval to push the IR remote controller on/off button.
Green	Blinking	Correct linkage between the IR remote controller and the AC Cloud Control device.
Red	Blinking	Incorrect linkage between the IR remote controller and the AC Cloud Control device.



IMPORTANT

This LED color table only applies to the AC Cloud Control devices with the order code **INWFIUNI001100**. For different order codes dismiss this information.

Table 3. LED status during work mode

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	The indoor unit is on and working in cool or dry mode.
Red		The indoor unit is on and working in heat mode.
Green		The indoor unit is on and working in fan mode.
Yellow		The indoor unit is on and working in auto mode.
Cyan		The indoor unit is on and 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.

**IMPORTANT**

This LED color table only applies to the AC Cloud Control devices with the order code **INWFIUNI001100**. For different order codes dismiss this information.