

AC Cloud Control
DEVICE CONFIGURATION WITH BLUETOOTH

USER MANUAL
Version 1.0.4
Publication date 2026-09-15



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1. General Information

INTENDED USE OF THE USER MANUAL

This manual focuses on the Wi-Fi network configuration process of the Intesis AC Cloud Control gateway via Bluetooth. You can find the installation guide and other configuration manuals on the website's [product finder](#). You can also find step-by-step video tutorials on [YouTube](#).

SAFETY INFORMATION

Disconnect all systems from power before manipulating and connecting them to the gateway.

Install this gateway indoors, avoiding exposure to direct solar radiation, water, high relative humidity, or dust.

Take antistatic precautions when manipulating the gateway to avoid electrostatic discharges.

Respect the expected polarity of power and communication cables when connecting them to the gateway.

ADMONITION MESSAGES AND SYMBOLS



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. Enable the Intesis AC Cloud Control device's Bluetooth connection and configuration mode.
2. Use the AC Cloud Control mobile app to link the Intesis AC Cloud Control device to a Wi-Fi network using a smart device's Bluetooth connection.



NOTE

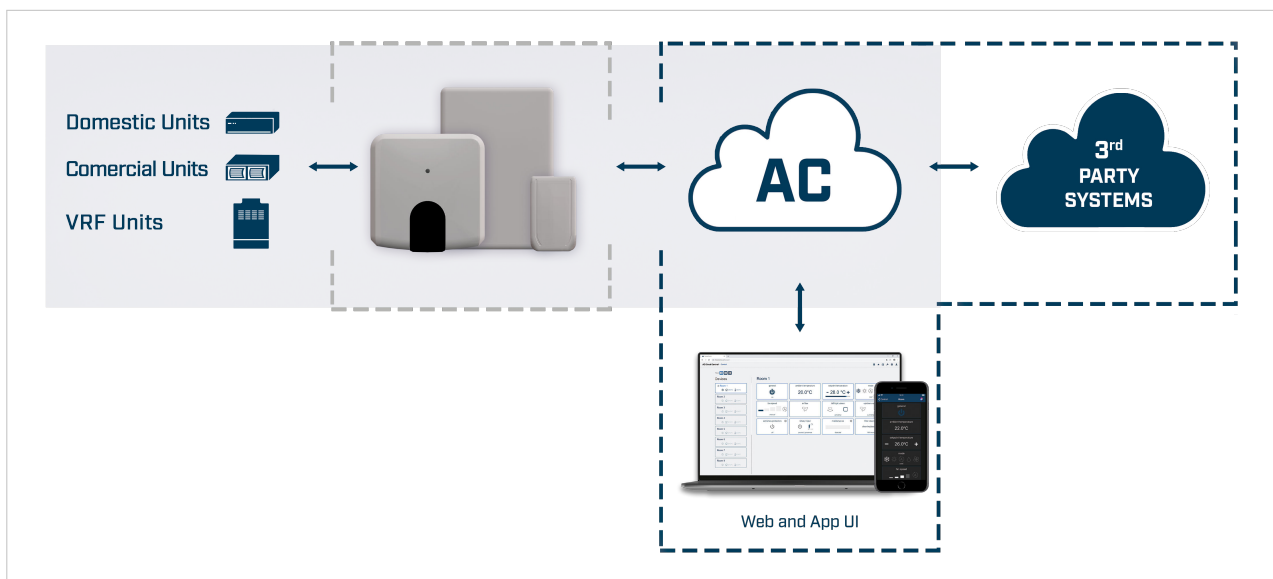
We use the term *smart device* to refer to an iPhone, iPad, or Android smartphone or tablet.

3. Configure the Wi-Fi connection.
4. Check the AC Cloud Control device's status through its LED indicator.

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

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

Before starting the configuration process:

1. Enable the AC Cloud Control device's Bluetooth connection. See [Bluetooth \(page 4\)](#).
2. Activate the Bluetooth of your smart device.
3. Keep your smart device close to the access point and the AC Cloud Control device.

**IMPORTANT**

A weak signal might cause intermittent disconnections to the AC Cloud Control device.

4. Bluetooth



IMPORTANT

With factory settings, or after performing a factory reset, the AC Cloud Control device's Bluetooth connection is disabled.



NOTICE

Enabling the Bluetooth connection is necessary to pair the AC Cloud Control device with the smart device running the AC Cloud Control application, which is the first step before linking the device with the wireless network and configuring the Wi-Fi connection, as explained in the following sections.

To enable the Bluetooth connection, follow this procedure:

1. Power on the device by connecting it to the communication bus or to the power supply.
2. The device's LED will blink green for 10 seconds, and then it will turn solid green.
3. Press the device's button for two seconds.
4. The device's LED will blink green and blue, indicating that the Bluetooth is enabled and the device is in configuration mode¹.



NOTE

¹ When enabling the Bluetooth connection, the device automatically enters the configuration mode.

5. Pairing the AC Cloud Control Device With Your Smart Device via Bluetooth

1. Open the AC Cloud Control app.
2. On the app's main screen, tap the **Device Configuration** button.
On the Configuration screen, you will be prompted to set the AC Cloud Control device in configuration mode (if it is not in this mode yet). To do so:
 - a. Press and hold the AC Cloud Control device button for 10 seconds.
 - b. Release it.

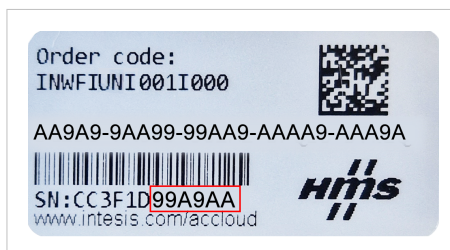


NOTE

The LED will blink green; after 10 seconds, it should blink in blue and green alternately, indicating that the Bluetooth connection is enabled and the device is in configuration mode. If the LED turns steady green, that indicates that the device is in configuration mode, but the Bluetooth connection is disabled. Enable it as explained in [Bluetooth \(page 4\)](#).

3. Tap the **Bluetooth** button.
The AC Cloud Control app will scan the network to find all AC Cloud Control devices, which will appear in the **SCANNED** list.
4. Select from the list the AC Cloud Control 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 AC Cloud Control device.

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



5. On the **Bluetooth Pairing Request** pop-up message, tap the **Pair** button.



TIP

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

¹XXXXXX are the last six digits of the AC Cloud Control device serial number.

Figure 3. **CONNECTED** devices list

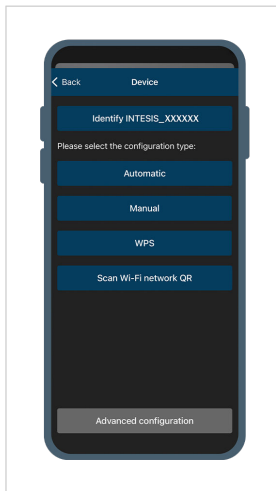


NOTE

When using Android smart devices, once an AC Cloud Control device is paired, it will always appear in the **Connected** devices list. Since having several devices listed can make it hard to identify a specific one, you can clean the list by entering the smart device's Bluetooth settings and "forgetting" the AC Cloud Control devices you want.

6. Connecting the AC Cloud Control Device to the Wi-Fi Network

Figure 4. **Device** screen with the four configuration types



Once the AC Cloud Control device is paired with your smart device, the app will show the **Device** screen listing the four supported Wi-Fi connection modes.

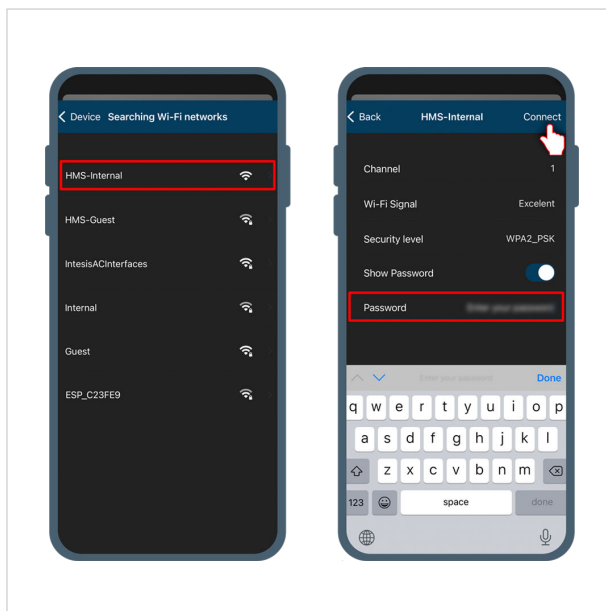


IMPORTANT

Through the **Advanced Configuration** menu, you can change the radio frequency mode. If you have to change this setting, do so before the connection and configuration of the Wi-Fi network. See [Advanced Configuration \(page 11\)](#).

6.1. Automatic

Figure 5. 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 AC Cloud Control device will connect to the cloud server. Depending on the communication phase, the LED will blink accordingly:

- Blinking green: Checking the configuration parameters.
- Blinking yellow: Downloading the configuration.

- Blinking red: Connecting to the server.
- Off: The AC Cloud Control device is connected and working.

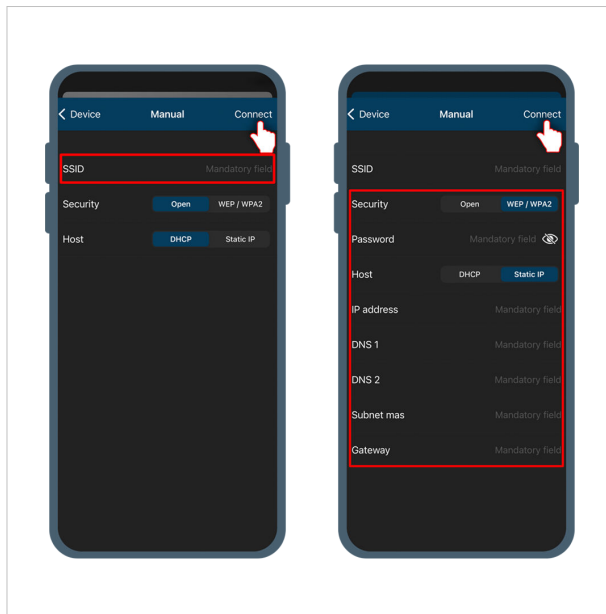


IMPORTANT

If any error occurs during the configuration process, the LED will keep blinking. See [LED Behavior \(page 14\)](#).

6.2. Manual

Figure 6. 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 AC Cloud Control device will connect to the cloud server. Depending on the communication phase, the LED will blink accordingly:

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



IMPORTANT

If any error occurs during the configuration process, the LED will keep blinking. See [LED Behavior \(page 14\)](#).

6.3. Wi-Fi Protected Setup (WPS)



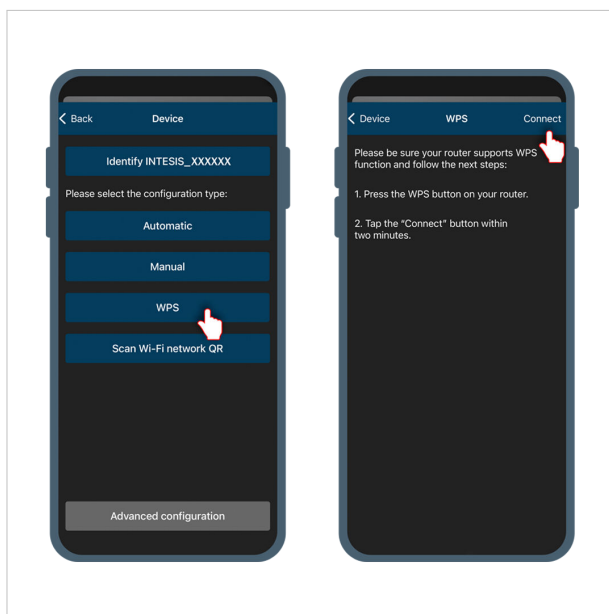
NOTE

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 7. 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 AC Cloud Control 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 AC Cloud Control device is connected and working.



IMPORTANT

If any error occurs during the configuration process, the LED will keep blinking. See [LED Behavior \(page 14\)](#).

Using the AC Cloud Control device's push button:

1. Make sure the AC Cloud Control device is in configuration mode.



NOTICE

The LED should be steady green if the Bluetooth connection is disabled or blinking in blue and green if it is enabled.

2. Short-press (one click) the push button.

The AC Cloud Control device's LED will blink blue.

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

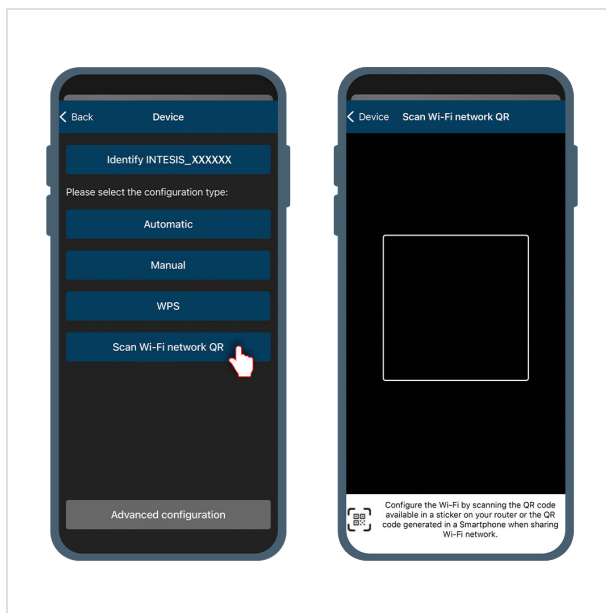
- Blinking blue: WPS enabled.
- Blinking green: Checking the configuration parameters.
- Blinking yellow: Downloading the configuration.
- Blinking red: Connecting to the server.
- Off: The AC Cloud Control device is connected and working.

**IMPORTANT**

If any error occurs during the configuration process, the LED will keep blinking. See [LED Behavior \(page 14\)](#).

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

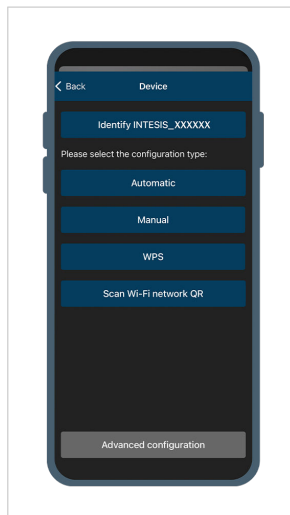
- Blinking green: Checking the configuration parameters.
- Blinking yellow: Downloading the configuration.
- Blinking red: Connecting to the server.
- Off: The AC Cloud Control device is connected and working.

**IMPORTANT**

If any error occurs during the configuration process, the LED will keep blinking. See [LED Behavior \(page 14\)](#).

7. Advanced Configuration

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



You can configure the AC Cloud Control 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 AC Cloud Control 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.

8. 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 to reset the Wi-Fi settings:

1. Press and hold the AC Cloud Control device button for 10 seconds.
2. Release it.

**NOTE**

The LED will blink green; after 10 seconds, it will alternate between blue and green, indicating that the Bluetooth connection is enabled and the device is in configuration mode, or it will turn solid green if the Bluetooth connection is disabled.

9. Push Button Functionalities

- Activate the Bluetooth connection:
 1. Press and hold the button for two seconds.
 2. Release the button.

**NOTE**

- When enabling the Bluetooth connection, the device will also enter the configuration mode automatically.
- The device's LED will alternately blink green and blue.

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

**NOTE**

- If the device's Bluetooth connection is enabled, the LED will blink green and blue.
- If the device's Bluetooth connection is disabled, the LED will blink green for 10 seconds, and then it will turn solid 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.

10. LED Behavior

The AC Cloud Control 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 device.
Green	Steady	Device not configured. The device's Bluetooth connection is disabled.
Blue - Green	Blinking	Device not configured. The device's Bluetooth connection is enabled.
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.