ENGLISH

AC Cloud Control

DEVICE CONFIGURATION WITH BLUETOOTH

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 Bluetooth. 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 Bluetooth 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 and web application.

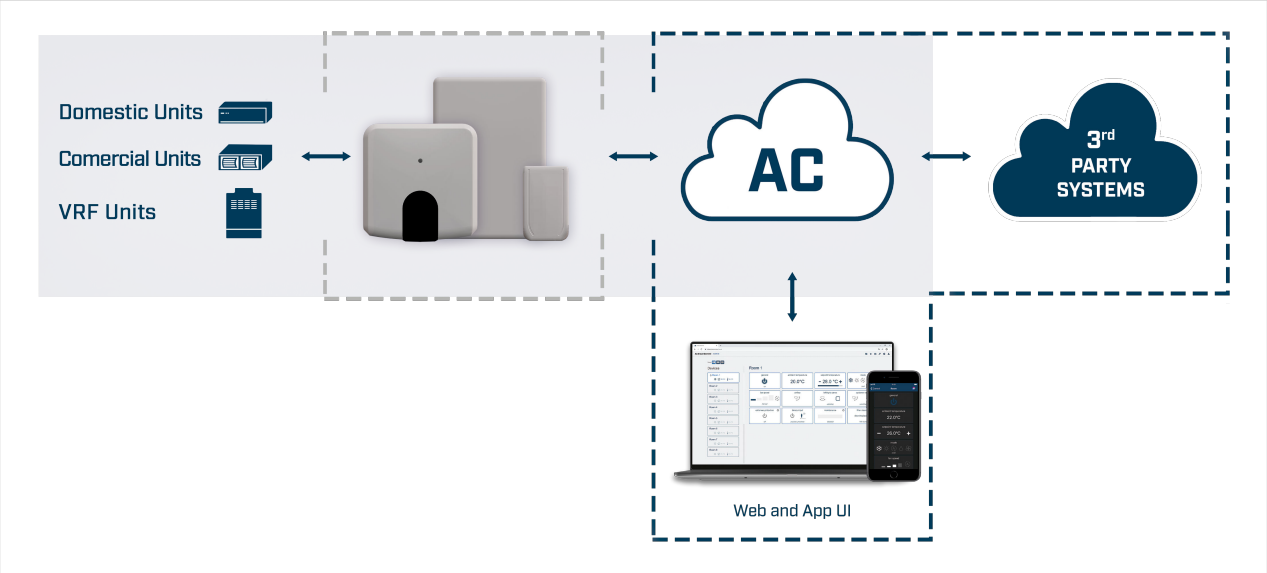

Figure 1. AC Cloud Control device integration

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.

- Smart device with a Bluetooth 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. Activate the Bluetooth of your smart device.
2. 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.
   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 **Bluetooth** button.
   The AC Cloud Control app will scan the network to find all ACCC devices, which will appear in the **SCANNED** list.
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

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

> **TIP**
> When having multiple ACCC devices on an installation, you can easily locate each one by tapping on the **Identify INTESIS_XXXXXX**[1] button. The LED of that specific ACCC device will blink white for 10 seconds, allowing you to discover it.

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

Figure 3. **CONNECTED** devices list

NOTE

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

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.

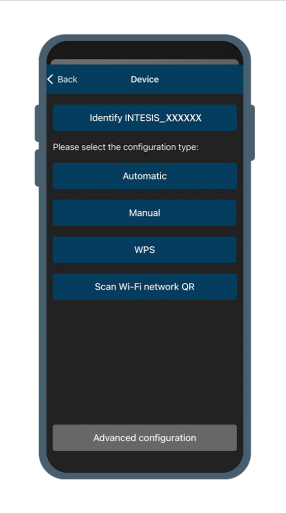

Figure 4. **Device** screen with the four configuration types

5.1. Automatic

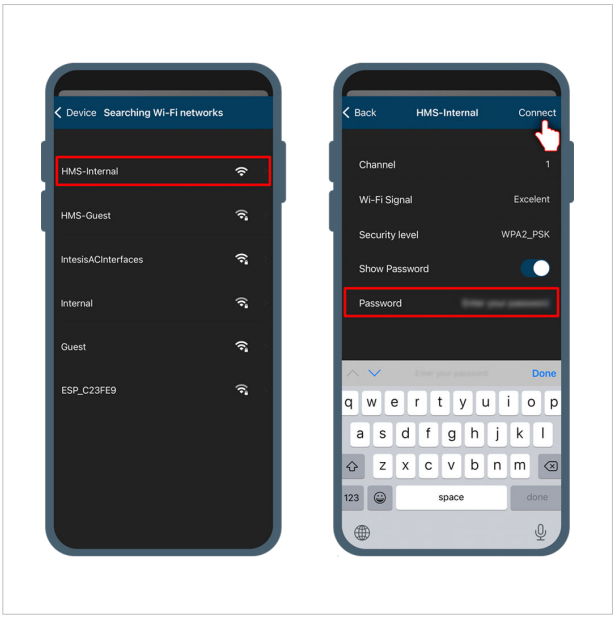

Figure 5. Wi-Fi network selection

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 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 14).

5.2. Manual

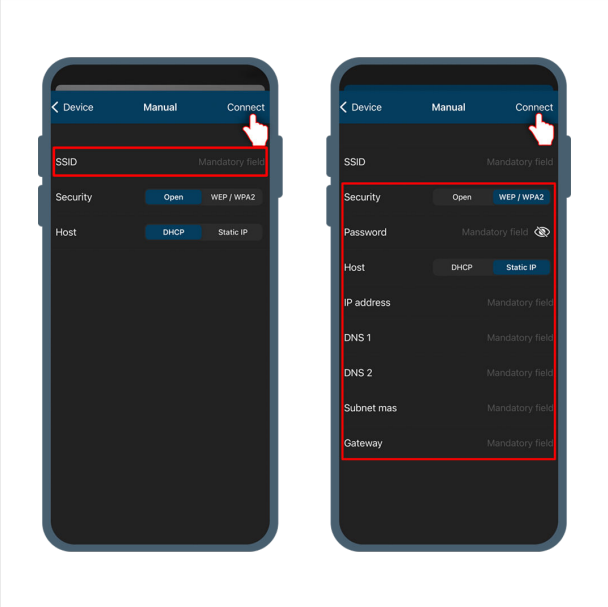

Figure 6. Manual configuration for an open and secured network.

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 **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 14).

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:

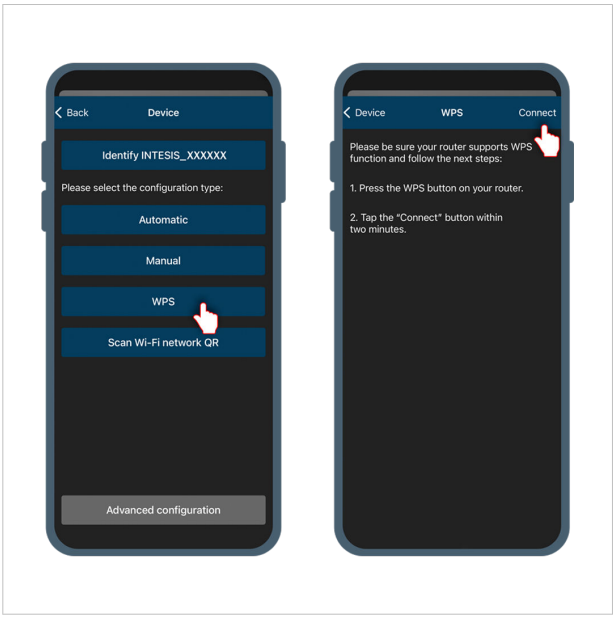

Figure 7. Title: WPS configuration using the app

1. On the **Device** screen, tab **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 14).

Using the ACCC device's push button:

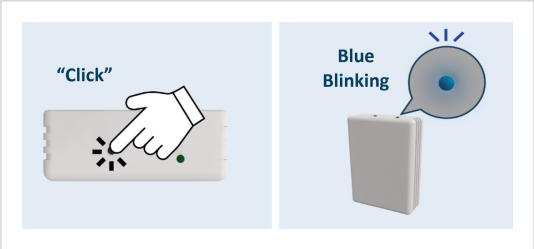

Figure 8. WPS configuration using the push button

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 14).

5.4. Scan a Wi-Fi Network QR Code

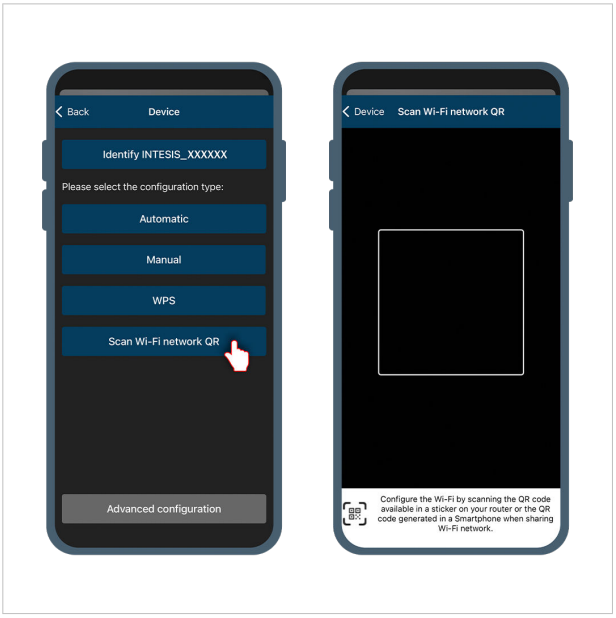

Figure 9. Configuration via QR

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 14).

6. Advanced Configuration

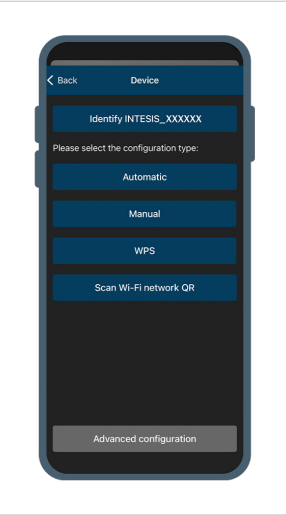

Figure 10. Access the advanced configuration from the **Device** screen.

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. 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 ACCC device button for 10 seconds.
2. Release it.

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

8. 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.

9. 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.