



INTEGRATION GUIDE

# How to Configure Aerohive Wi-Fi Cloud to Secure your Wireless Network with Portnox CLEAR

## Introduction

This document guides you step by step how to configure your Aerohive wireless cloud environment using Portnox CLEAR to ensure secure and trusted user access.

## Enabling CLEAR RADIUS Service

The first step is to enable the CLEAR RADIUS service:

- 1) Verify your organization is registered on Portnox CLEAR Cloud Services:  
<https://clear.portnox.com/>.
- 2) In the CLEAR portal, go to **Settings > Services** and expand **CLEAR RADIUS Service**. Then:
  - a. If the **Enable Cloud RADIUS** checkbox is not checked, click **Edit** and check the **Enable Cloud RADIUS** checkbox.
  - b. Note the RADIUS server details which you will need when configuring the Aerohive Controller:
    - **Cloud RADIUS IP** - this is the IP address of the CLEAR RADIUS server
    - **Authentication port**
    - **Accounting port** - needed for the RADIUS accounting server
    - **Shared Secret** - this is the RADIUS client shared secret

## Registering the SSID in CLEAR

The second step is to register, in the CLEAR portal, the SSID of the wireless network you will be securing.

- 1) Navigate in the portal to **Settings > Groups**.
- 2) Edit the default “Unassigned” group or create a new security group.
- 3) Whether you are creating or editing a group, in **Group Settings** click **Add Wi-Fi network** and specify the **SSID** of the network you will be securing.

## Configuring the Aerohive Wi-Fi SSID

In the final step, we configure the Aerohive wireless SSID to be secured and protected based on CLEAR RADIUS authentication.

- 1) In the Aerohive Hive Manager portal, navigate to **Configure > Add Network Policy**, and add a new network policy or edit an existing one.
- 2) Navigate to **Configure > Wireless Networks** and add new SSID > **All other Networks (standard)**.
- 3) In the **Wireless Networks** tab, do the following:
  - a. Specify Name (SSID).
  - b. Select **Enterprise WPS / WPA2 802.1X** as SSID authentication.
  - c. Select **WPA-(WPA2 Enterprise)-802.1X** as the **Key Management**.
  - d. Select **AES or TKIP** as an **Encryption Method**.

The screenshot displays the Aerohive Networks configuration interface for a Wireless Network. The interface includes a navigation bar with tabs for DASHBOARD, MONITOR, MAPS, CONFIGURE, TOOLS, and A3. Below the navigation bar, there are sub-tabs for NETWORK POLICIES, APPLICATIONS, COMMON OBJECTS, and USERS. The main content area shows the configuration for a Wireless Network, with a sidebar for CONFIGURATION GUIDE. The configuration includes fields for Policy Name (CLEAR), SSID (Name) (CLEAR), and RADIUS Server Group (+ Add Radius Server Group). The SSID Usage section shows SSID Authentication selected, with Enterprise WPA / WPA2 802.1X chosen. The Key Management dropdown is set to WPA2-(WPA2 Enterprise)-802.1X, and the Encryption Method dropdown is set to CCMP (AES). The Broadcast SSID Using section has checkboxes for WiFi0 Radio (2.4 GHz or 5 GHz) and WiFi1 Radio (5 GHz only), both of which are checked.

- e. In the **Authentication settings > Authenticate via Radius server > press “+”** to add new Radius server.

- f. Specify RADIUS Server Group Name and press “+” to add new External Radius Server.

Enter the following CLEAR RADIUS server details, which you noted in [Enabling CLEAR RADIUS Service](#), step (2)b:

- In **IP/Host Name**, enter the Cloud RADIUS IP.
- In **Server Type > Authentication Port**, enter the Authentication port number.
- In **Server Type > Accounting Port**, enter the Accounting port number.
- In **Shared Secret**, enter the Shared Secret.

- g. Press **Save External Radius Server**.

**Configure RADIUS Servers** ✕

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RADIUS Server Group Name \*  RADIUS Server Group Description

**EXTERNAL RADIUS SERVER (0)** AEROHIVE A3 (0) AEROHIVE RADIUS SERVER (0) AEROHIVE RADIUS PROXY (0) LOCAL DATABASE (0) ✎ +

**New External RADIUS Server**

Name \*

Description

IP/Host Name \*  + ✎

Server Type \*  Authentication Port: \*   
 Accounting Port: \*

Shared Secret   
 Show Password

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- h. Select the Radius server and press **Save Radius**.

**Configure RADIUS Servers**
✕

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RADIUS Server Group Name \*  
CLEAR-GROUP

RADIUS Server Group Description

⚙️

EXTERNAL RADIUS SERVER (1)
AEROHIVE A3 (0)
AEROHIVE RADIUS SERVER (0)
AEROHIVE RADIUS PROXY (0)
LOCAL DATABASE (0)
✎ +

Name	IP/Host Name
<input type="checkbox"/>	[REDACTED]
<input type="checkbox"/>	[REDACTED]
<input type="checkbox"/>	[REDACTED]
<input checked="" type="checkbox"/> CLEAR-RADIUS	[REDACTED]

CANCEL
SAVE RADIUS

Authentication Settings

Authentication with HiveManager Authentication Service  OFF

**Authenticate via RADIUS Server**

Default RADIUS Server Group CLEAR-GROUP + ⚙️

Name	Type	IP/Host Name
CLEAR-RADIUS	External RADIUS Server	[REDACTED]

- i. Select the relevant SSID and press next, add new AP template and press next.

AP Templates

Switch Templates

**AP Templates**

ADD
⚙️
🗑️

Device Model	Template	Classification Rules	Assignment Description
<input type="checkbox"/> AP130	<span style="font-size: 0.8em;">🔗 Temp-AP (default)</span>		

- j. In order to apply the network policy to selected devices > **upload**.

Apply the network policy to selected devices

Status	Device Name	Device Model	IP Address	MAC Address
<input checked="" type="checkbox"/> <span style="font-size: 0.8em;">🟢 📄</span>	AH-641c00	AP130	[REDACTED]	[REDACTED]