



INTEGRATION GUIDE

# How to Configure Aerohive Wi-Fi Cloud to Secure your Guest 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 control guest 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

## Enabling CLEAR Captive Portal Service

The second step is to enable the CLEAR Captive Portal (=Guest portal).

- 1) In the CLEAR portal, go to **Settings > Services** and expand **CLEAR Captive Portal Service**. Then:
  - a. If the **Enable CLEAR Captive Portal** checkbox is not checked, click **Edit** and check the **Enable CLEAR Captive Portal** checkbox.
  - b. Note the **URL** and the **IP (for walled garden)** which you will need when configuring the Aerohive controller.

## Configuring the Aerohive Wi-Fi SSID

In the final step, we configure the Aerohive guest wireless SSID to control guest user access.

- 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 > **Add Standard Network**.
- 3) In the **Wireless Networks** tab, do the following:
  - a. Specify Name (SSID).
  - b. Select **Open** as SSID authentication.
  - c. Select **Enable Web Captive Web Portal**.
  - d. Select **User Auth on Captive Web Portal** and deselect **Enable UPA**.
  - e. Select **Redirect to External URL for Authentication** as Authentication Type.

Wireless Networks

Name (SSID) \*

Broadcast Name \*

Broadcast SSID Using

WIFI0 Radio (2.4 GHz or 5 GHz)

WIFI1 Radio (5 GHz only)

SSID Usage

SSID Authentication | MAC Authentication

Enterprise WPA / WPA2 802.1X

Personal WPA / WPA2 / WPA3

Private Pre-Shared Key

WEP

Open Unsecured

Enable Captive Web Portal  ON

Captive Web Portal  
Display a splash page and configure captive web portal options

Select features for this captive web portal

User Auth on Captive Web Portal  
Authenticates the user on the splash page

Enable Self-Registration  
Enables the user to register on the splash page.

Return Aerohive Private PSK  
Issues a Private PSK for the user

Enable UPA  
Display the Use Policy Acceptance page

Choose Authentication Type:

Authentication via Radius Server

Redirect to External URL for Authentication

## f. Add Default Captive Web Portal:

- i. Specify Name.
- ii. In Login URL, enter the CLEAR Captive Portal Service **URL** which you noted in [Error! Reference source not found.](#), step 1b.
- iii. Select **No Encryption** as Password Encryption.
- iv. Select **MS-CHAP V2** as Authentication Method.

### New Captive Web Portal

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Name \*

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Captive Web Portal  
Display a splash page and configure captive web portal options

Select features for this captive web portal

- User Auth on Captive Web Portal  
Authenticates the user on the splash page
- Enable Self-Registration  
Enables the user to register on the splash page.
- Return Aerohive Private PSK  
Issues a Private PSK for the user
- Enable UPA  
Display the Use Policy Acceptance page

### Captive Web Portal Settings


Login URL \*

Password Encryption



Authentication Method

- v. Add Walled Garden IPs > press “+” and select **Advanced**.
- vi. Select **All** as Service Enter the **walled Garden IPs** which you noted in [Error! Reference source not found.](#) step 1b as IP Object / Host Name.

### Walled Garden



+ 

Service Type  
 Web  All  Advanced

IP Object/Host Name   + 

Service

**ADD**

<input type="checkbox"/>	IP/Host Name	Service	Protocol
<input type="checkbox"/>		SERVICE_ALL	
<input type="checkbox"/>		SERVICE_ALL	

- vii. Press **SAVE CWP**.

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

h. 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.

i. 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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- j. Select the Radius server and press **Save Radius**.

Configure RADIUS Servers
✕

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RADIUS Server Group Name \*

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]

- k. 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="border: 1px solid #ccc; padding: 0 2px;">Temp-AP (default)</span>		

- l. 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="color: green;">🟢</span>	AH-641c00	AP130	[REDACTED]	[REDACTED]