

Grandstream Networks, Inc.

GWN76xx Wi-Fi Access Points

Standalone Guide



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INTRODUCTION

The GWN76xx Series are high-performance 802.11ac wireless access point for small to medium sized businesses, multiple floor offices, commercial locations and branch offices.

This wireless access point can be used with any third party routers. With support for advanced QoS, low-latency real-time applications. The GWN76xx are ideal wireless access points for large and small wireless network deployments.

A GWN76xx Wireless Access Point model provides the ability to act either as Master Access Point or Slave Access Point.

This guide describes GWN76xx in standalone mode where it can be used in network environments requiring Wi-Fi access with a single access point.

The figure below shows a sample setup of GWN76xx in standalone mode:

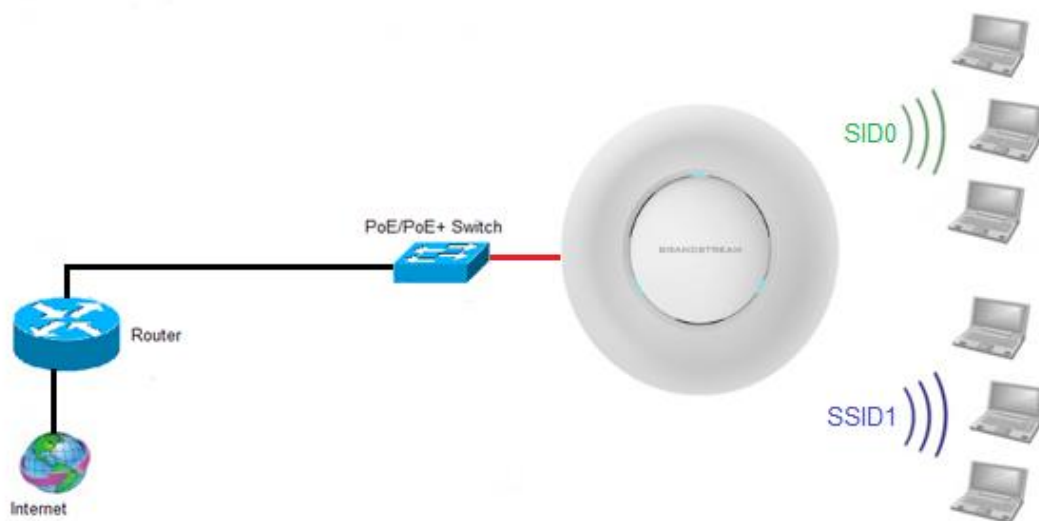


Figure 1: Standalone Architecture Example



USING DEFAULT SSID

The GWN76xx can be used as standalone access point out of box, or after factory reset with Wi-Fi enabled by default.

Users can simply power on the GWN76xx and connect it to the network to start using Wi-Fi access.

GWN76xx will broadcast a default SSID based on its MAC address **GWN[MAC's last 6 digits]** and a random password.

Note that GWN76xx's default SSID and password information are printed on the MAC tag of the unit as shown on the below figure.

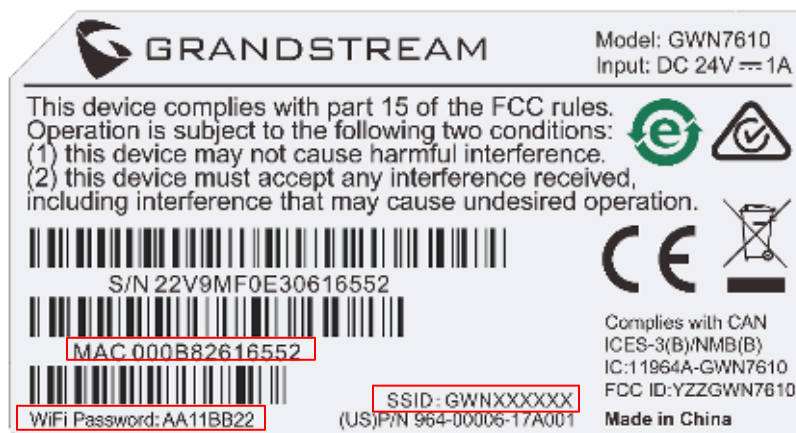


Figure 2: MAC Tag Label

To connect, Wi-Fi clients need to scan for Wireless networks, select SSID broadcasted from GWN76xx and enter password as printed in the label tag on the back of GWN76xx.



CREATE CUSTOM SSID

This section describes needed steps to manage and customize SSID and Wi-Fi settings, first by discovering the unit IP address, accessing its web interface and editing its configuration depending on environment needs.

Discover GWN76xx

Once the GWN76xx is powered up and connected to the network correctly, users can discover the GWN76xx using one of the following methods:

Method 1: Discover GWN76xx using its MAC address

1. Locate the MAC address on the MAC tag of the unit, which is on the underside of the device, or on the package.
2. From a computer connected to same network as the GWN76xx, type in the following address [https://gwn_\[MAC address\].local/](https://gwn_[MAC address].local/) using the GWN76xx's MAC address on your browser.

For example, if a GWN7600 has the MAC address **00:0B:82:8B:4D:D8**, this unit can be accessed by typing https://gwn_000b828b4dd8.local/ on the browser.

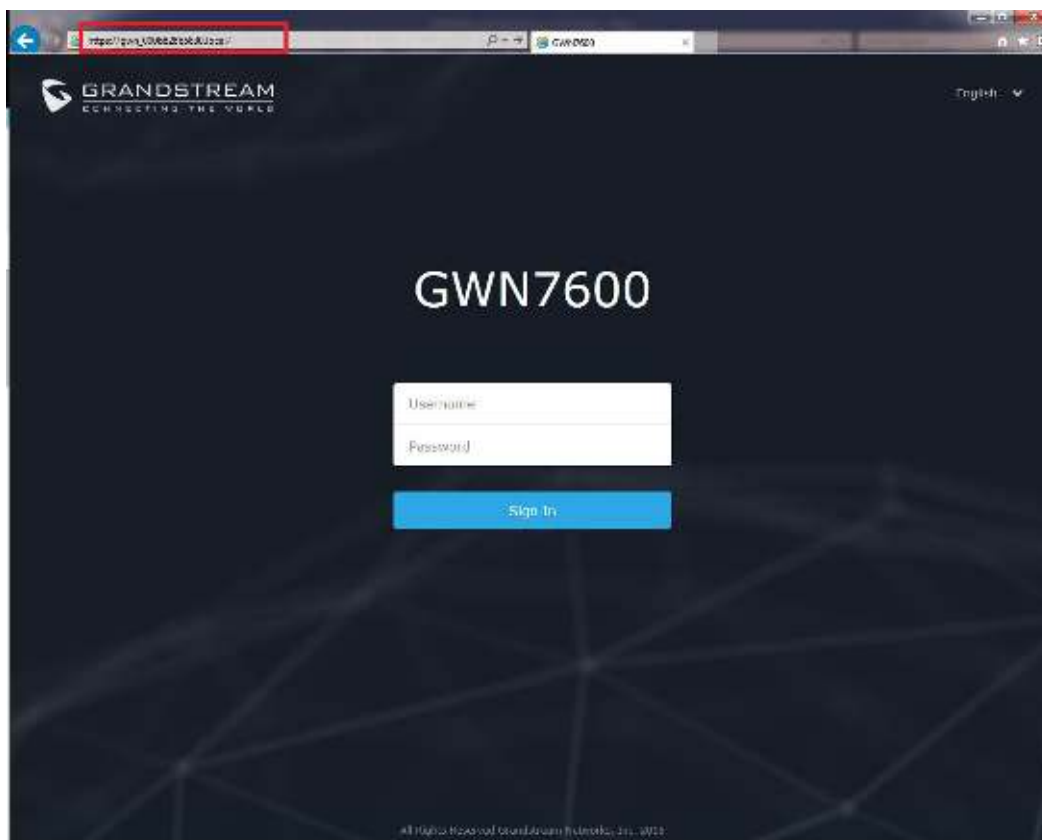


Figure 3: Discover the GWN7600 using its MAC Address



Method 2: Discover GWN76xx using GWN Discovery Tool

1. Download and install **GWN Discovery Tool** from the following link:
<http://www.grandstream.com/sites/default/files/Resources/GWNDiscoveryTool.zip>
2. Open the “GWN Discovery Tool”, click on **Select** to define the network interface, then click on **Scan**.
3. The tool will discover all GWN76xx Access Points connected on the network showing their MAC, IP addresses and firmware version.
4. Click on **Manage Device** to be redirected directly to the GWN76xx's configuration interface, or type in manually the displayed IP address on your browser.

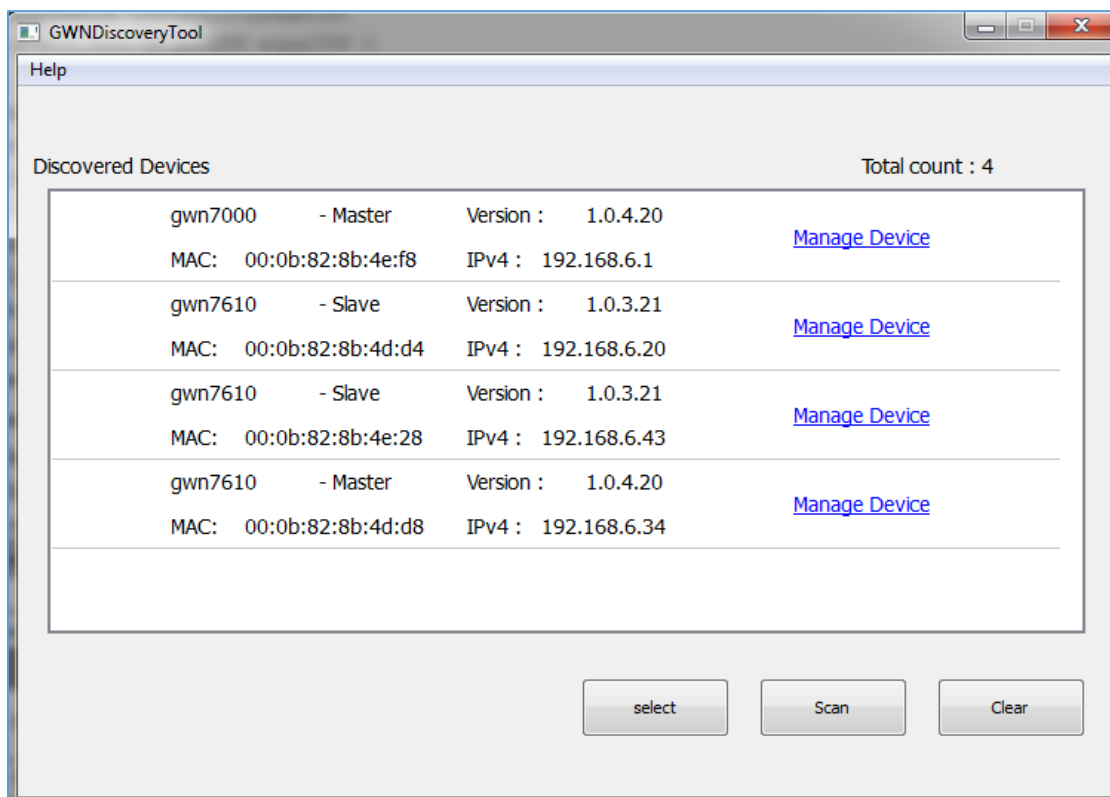


Figure 4: GWN Discovery Tool

Access the GWN76xx WebGUI

In order to access into the GWN76xx WebGUI, please follow those steps:

1. Make sure to use a computer connected to the same local Network as the GWN76xx.
2. Ensure the device is properly powered up.
3. Open a Web browser on the computer and type in the URL using the MAC address as show previously or the IP address using the following format: **https://IP_Address**
4. Enter the administrator's login and password to access the Web Configuration Menu. The default administrator's username is admin and password is the default WiFi Password.





Figure 5: Login Page

Notes:

- At first boot or after factory reset, users will be asked to change the default administrator and user passwords before accessing GWN76xx web interface. The new password fields are case sensitive with a maximum length of 32 characters. Using strong passwords including letters, digits and special characters are recommended for better security.

Wi-Fi Configuration

After accessing the GWN76xx web GUI navigate to “**SSIDs**”, the page will show default group (“**group0**”) and default SSID for the GWN76xx as shown below:

Name	Wi-Fi	VLAN ID	Schedule	Security Mode	MAC Filtering	Captive Portal	SSID	Actions
Guest	✓	✗	✗	Open	Disabled	✗	✗	[Edit] [Delete]
Production	✓	✗	✗	WPA2	Disabled	✗	✗	[Edit] [Delete]

Figure 6: SSID

Click on  to modify the SSID settings or  to add a new one.

The following window will be shown:



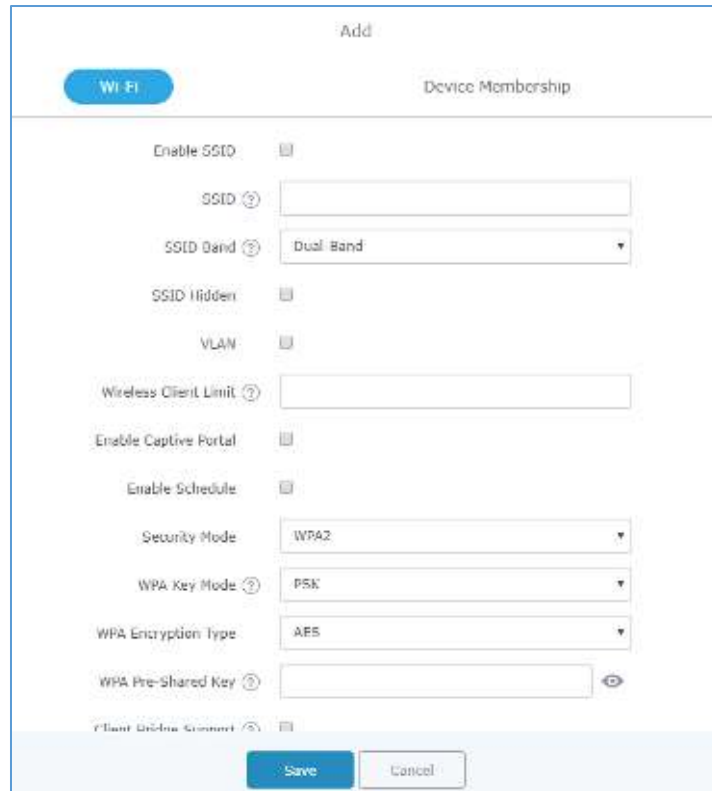


Figure 7: Add New SSID

When editing or adding a new SSID, users will have two tabs to configure:

- **Wi-Fi:** Please refer to the below table for Wi-Fi tab options

Table 1: Wi-Fi

Field	Description
Enable SSID	Check to enable Wi-Fi for the SSID.
SSID	Set or modify the SSID name.
SSID Band	Select the Wi-Fi band the GWN will use, three options are available: <ul style="list-style-type: none"> • Dual-Band • 2.4GHz • 5Ghz
SSID Hidden	Select to hide SSID. SSID will not be visible when scanning for Wi-Fi, to connect a device to hidden SSID, users need to specify SSID name and authentication password manually.
VLAN	Enter the VLAN ID corresponding to the SSID.
Wireless Client Limit	Configure the limit for wireless client. If there's an SSID per-radio on a SSID, each SSID will have the same limit. So, setting a limit of 50 will limit each SSID to 50 users independently. If set to 0 the limit is disabled.
Enable Captive Portal	Click on the checkbox to enable the captive portal feature.
Captive Portal Policy	Select the captive portal policy already created on the "Policy List" web page to be used in the created SSID.



Enable Schedule	Check the box and choose a schedule to apply for the selected SSID.
Security Mode	<p>Set the security mode for encryption, 5 options are available:</p> <ul style="list-style-type: none"> • WEP 64-bit: Using a static WEP key. The characters can only be 0-9 or A-F with a length of 10, or printable ASCII characters with a length of 5. • WEP 128-bit: Using a static WEP key. The characters can only be 0-9 or A-F with a length of 26, or printable ASCII characters with a length of 13. • WPA/WPA2: Using “PSK” or “802.1x” as WPA Key Mode, with “AES” or “AES/TKIP” Encryption Type. • WPA2: Using “PSK” or “802.1x” as WPA Key Mode, with “AES” or “AES/TKIP” Encryption Type. Recommended configuration for authentication. • Open: No password is required. Users will be connected without authentication. Not recommended for security reasons.
WEP Key	<p>Enter the password key for WEP protection mode.</p> <p><i>This field is available only when “Security Mode” is set to “WEP 64-bit” or “WEP 128-bit”.</i></p>
WPA Key Mode	<p>Two modes are available:</p> <ul style="list-style-type: none"> • PSK: Use a pre-shared key to authenticate to the Wi-Fi. • 802.1X: Use a RADIUS server to authenticate to the Wi-Fi. <p><i>This field is available only when “Security Mode” is set to “WPA/WPA2” or “WPA2”.</i></p>
WPA Encryption Type	<p>Two modes are available:</p> <ul style="list-style-type: none"> • AES: This method changes dynamically the encryption keys making them nearly impossible to circumvent. • AES/TKIP: use both Temporal Key Integrity Protocol and Advanced Encryption Standard for encryption, this provides the most reliable security. <p><i>This field is available only when “Security Mode” is set to “WPA/WPA2” or “WPA2”.</i></p>
WPA Pre-Shared Key	<p>Set the access key for the clients, and the input range should be: 8-63 ASCII characters or 8-64 hex characters.</p> <p><i>This field is available only when “Security Mode” is set to “WPA/WPA2” or “WPA2”.</i></p>
RADIUS Sever Address	<p>Configures RADIUS authentication server address.</p> <p><i>This field is available only when “WPA Key Mode” is set to “802.1x”.</i></p>
RADIUS Server Port	<p>Configures RADIUS Server Listening port. Default is: 1812.</p> <p><i>This field is available only when “WPA Key Mode” is set to “802.1x”.</i></p>
RADIUS Server Secret	<p>Enter the secret password for client authentication with RADIUS server.</p> <p><i>This field is available only when “WPA Key Mode” is set to “802.1x”.</i></p>
RADIUS Accounting Server	<p>Configures the address for the RADIUS accounting server.</p> <p><i>This field is available only when “WPA Key Mode” is set to “802.1x”.</i></p>
RADIUS Accounting Server Port	<p>Configures RADIUS accounting server listening port. Defaults to 1813.</p> <p><i>This field is available only when “WPA Key Mode” is set to “802.1x”.</i></p>



RADIUS Accounting Server Secret	Enter the secret password for client authentication with RADIUS accounting server. <i>This field is available only when “WPA Key Mode” is set to “802.1x”.</i>
RADIUS NAS ID	Enter the RADIUS NAS ID. <i>This field is available only when “WPA Key Mode” is set to “802.1x”.</i>
Enable Dynamic VLAN	When enabled, clients will be assigned IP address from corresponding VLAN configured on the RADIUS user profile. <i>This field is available only when “WPA Key Mode” is set to “802.1x”.</i>
Client Bridge Support	Configures the client bridge support to allow the access point to be configured as a client for bridging wired only clients wirelessly to the network. When an access point is configured in this way, it will share the Wi-Fi connection to the LAN ports transparently. Once a SSID has a Client Bridge Support enabled, the AP adopted in this SSID can be turned in to Bridge Client mode by click the Bridge button.
Client Time Policy	Select a time policy to be applied to all clients connected to this SSID.
Use MAC Filtering	Choose Blacklist/Whitelist to specify MAC addresses to be excluded/included from connecting to the zone’s Wi-Fi. Default is Disabled.
Client Isolation	Client isolation feature blocks any TCP/IP connection between connected clients to GWN76XX’s Wi-Fi access point. Client isolation can be helpful to increase security for Guest networks/Public WiFi. Three modes are available: <ul style="list-style-type: none"> • Radio Mode: Wireless clients can access to the internet services, GWN7xxx router and the access points GWN76XX but they cannot communicate with each other. • Internet Mode: Wireless clients will be allowed to access only the internet services and they cannot access any of the management services, either on the router nor the access points GWN76XX. • Gateway MAC Mode: Wireless clients can only communicate with the gateway, the communication between clients is blocked and they cannot access any of the management services on the GWN76XX access points.
Gateway MAC Address	This field is required when using Client Isolation , so users will not lose access to the Network (usually Internet). Type in the default LAN Gateway’s MAC address (router’s MAC address for instance) in hexadecimal separated by “:”. Example: 00:0B:82:8B:4D:D8
RSSI Enabled	Check to enable RSSI function, this will lead the AP to disconnect users below the configured threshold in Minimum RSSI (dBm) .
Minimum RSSI (dBm)	Enter the minimum RSSI value in dBm. If the signal value is lower than the configured minimum value, the client will be disconnected. The input range is from “-94” or “-1”.



Beacon Interval	<p>Configures interval between beacon transmissions/broadcasts. The Beacon signals help to keep the network synchronized and provide main information about the network such as SSID, Timestamp...</p> <ul style="list-style-type: none"> • Using High Beacon Interval: AP will be sending beacon broadcast less frequently. This will help to get better throughput, thus better speed/performance. It also helps to save WiFi clients energy consumption. • Using Low Beacon Interval: AP will be sending beacon broadcast more frequently. This can help in environments with weak signal areas; sending more frequently beacons will increase chances to be received by WiFi clients with weak signal. <p>Notes:</p> <ol style="list-style-type: none"> 1. When AP enables several SSIDs with different interval values, the max value will take effect. 2. When AP enables less than 3 SSIDs, the interval value which will be effective are the values from 40 to 500. 3. When AP enables more than 2 but less than 9 SSIDs, the interval value which will be effective are the values from 100 to 500. 4. When AP enables more than 8 SSIDs, the interval value which will be effective are the values from 200 to 500. 5. Mesh feature will take up a share when it is enabled. <p>Default value is 100ms. Valid range: 40 – 500 ms.</p>
DTIM Period	<p>Configures the frequency of DTIM (Delivery Traffic Indication Message) transmission per each beacon broadcast. Clients will check the AP for buffered data at every configured DTIM Period. You may set a high value for power saving consideration.</p> <p>Default value is 1, meaning that AP will have DTIM broadcast every beacon. If set to 10, AP will have DTIM broadcast every 10 beacons.</p> <p>Valid range: 1 – 10.</p>
Multicast to Unicast	<p>Once selected, AP will convert multicast streams into unicast streams over the wireless link. Which helps to enhance the quality and reliability of video/audio stream and preserve the bandwidth available to the non-video/audio clients.</p>
Enable Voice Enterprise	<p>Check to enable/disable Voice Enterprise. The roaming time will be reduced once enable voice enterprise.</p> <ul style="list-style-type: none"> • The 802.11k standard helps clients to speed up the search for nearby APs that are available as roaming targets by creating an optimized list of channels. When the signal strength of the current AP weakens, your device will scan for target APs from this list. • When your client device roams from one AP to another on the same network, 802.11r uses a feature called Fast Basic Service Set Transition (FT) to authenticate more quickly. FT works with both pre-shared key (PSK) and 802.1X authentication methods.



	<ul style="list-style-type: none"> 802.11v allows client devices to exchange information about the network topology, including information about the RF environment, making each client network aware, facilitating overall improvement of the wireless network. <p>Note: 11R is required for enterprise audio feature, 11V and 11K are optional. <i>This field is available only when “Security Mode” is set to “WPA/WPA2” or “WPA2”.</i></p>
Enable 11R	Check to enable 802.11r. <i>This field is available only when “Security Mode” is set to “WPA/WPA2” or “WPA2”.</i>
Enable 11K	Check to enable 802.11k
Enable 11V	Check to enable 802.11v
ARP Proxy	This option will enable GWN AP to answer the ARP requests from its LAN for its connected WiFi clients. This is mainly to reduce the airtime consumed by ARP Packets

- Device Membership:** Used to add or remove paired access points to the SSID.

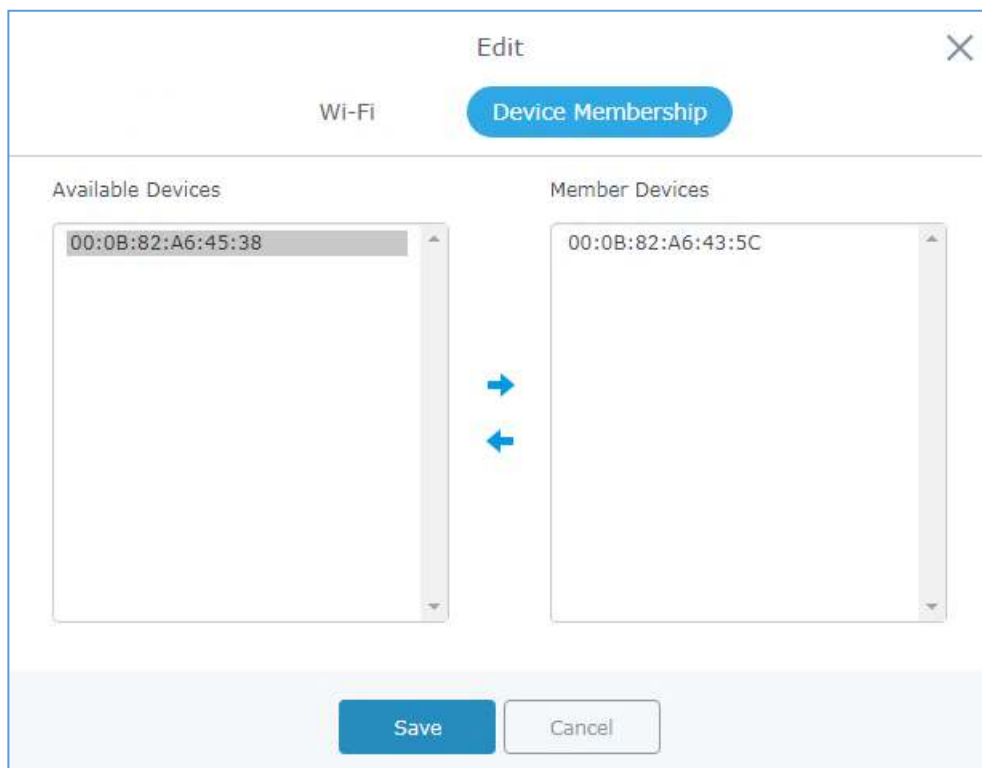


Figure 8: Device Membership

Click on → to add the GWN76XX to the SSID or click on ← to remove it.

- Device Membership:** This tab lists available devices on the network, it is used to add members to the group if more than one AP is available to manage the slaves AP from the Maser AP. In the standalone mode, only the master AP will present on the “Member Devices” as shown below.

Click on → to add GWN76xx to the SSID, or click on ← to remove it.



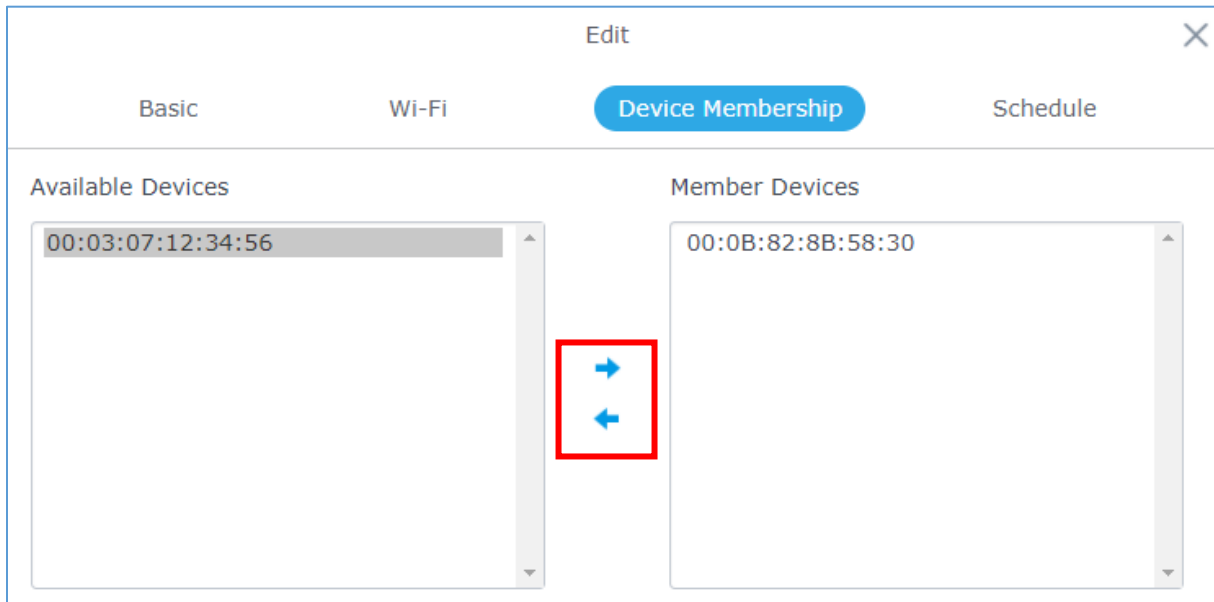


Figure 9: Device Membership

Click on **Save** and **Apply** to apply the new configuration. The SSIDs page will show as follow:

Name	SSID Band	Wi-Fi	VLAN ID	Schedule	Security Mode	RAC Filtering	Captive Portal	RSSI	Actions
GWNAP0250	Dual-Band	✓	✗	✗	WPA2	Disabled	✗	✗	[Edit] [Delete]
guest	Dual-Band	✓	✗	✗	WPA2	Disabled	✗	✗	[Edit] [Delete]
mc2uc	Dual-Band	✓	✗	✗	Open	Disabled	✗	✗	[Edit] [Delete]

Figure 10: SSID Config

At this stage, Wi-Fi clients can connect using created SSID upon successful authentication.

- WiFi schedule:** If users want to schedule the AP operation time, Schedule should be set first under Maintenance → Schedule then on the SSID “Enable Schedule” should be selected, and then, choose the schedule where the AP needs to work, at last, click on “Save” to save configuration.



- Overview
- SSIDs
- Access Points
- Clients
- Captive Portal
- Bandwidth Rules
- System Settings
- Maintenance
- Debug
- Email Notification
- Schedule
- LEDs
- DTCP Service
- Mesh
- About

+ Create New Schedule

Schedule

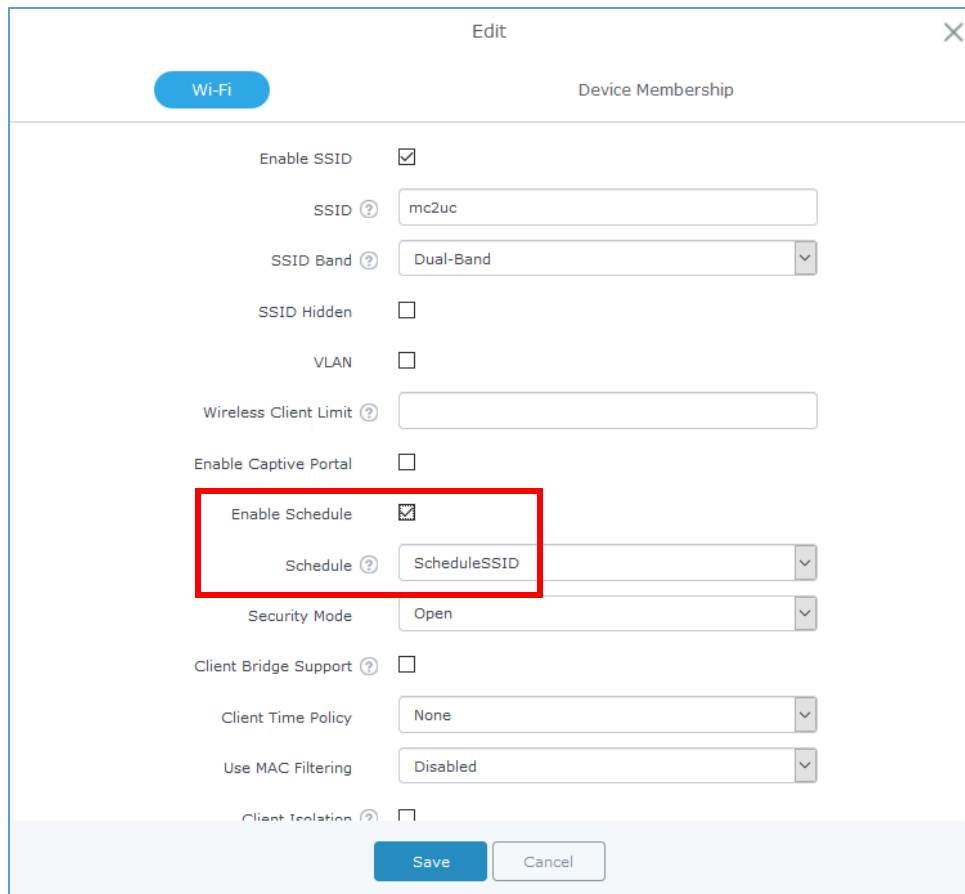
Schedule

If both weekly and absolute schedules are configured on the same day, only the absolute schedule will take effect.

Name:

Weekly

Select All	Sun	Mon	Tue	Wed	Thu	Fri	Sat
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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Wi-Fi Device Membership

Enable SSID

SSID

SSID Band

SSID Hidden

VLAN

Wireless Client Limit

Enable Captive Portal

Enable Schedule

Schedule

Security Mode

Client Bridge Support

Client Time Policy

Use MAC Filtering

Client Isolation

Save Cancel

Figure 12: Additional SSID

Note: The GWN76xx supports up to 16 SSIDs per radio band (2.4G, 5G) Except for GWN7630 supporting 15.

At this stage, Wi-Fi clients will be able to find different SSIDs as previously defined and connected to selected one upon successful authentication.

