

Grandstream Networks, Inc.

GWN7000 Controller - GWN76xx Wireless AP Management & Provisioning





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INTRODUCTION

The GWN7000 is a powerful enterprise-grade router and manager for wireless access points. Ideal for enterprises, office buildings, retail stores, shopping centers, hotels, hospitals, convention centers and more, the GWN7000 allows businesses to build comprehensive Wi-Fi or VPN Networks via many wireless access points that can be shared across many different physical locations.

The GWN7000 can act as controller and manage 300+ GWN76xx Wireless Access Points offering simultaneous dual-band Wi-Fi (2.4GHz and 5GHz) using the latest MIMO 802.11ac technology to maximize bandwidth, increase signal strength and expand Wi-Fi coverage.

This guide contains necessary steps to connect and configure GWN7000 as controller for GWN76xx including discovery, pairing and managing Wi-Fi network groups and SSIDs.





CONNECTING AND ACCESSING THE GWN7XXX

Connecting the GWN7000 and GWN76xx

To set up the GWN7000 and the GWN76xx, follow the steps below:

- 1. Connect one end of an RJ-45 Ethernet cable into the WAN1 or/and WAN2 port(s) of the GWN7000.
- 2. Connect the other end of the Ethernet cable(s) into a DSL modem or router(s).
- 3. Connect the 12V DC power adapter into the power jack on the back of the GWN7000. Insert the main plug of the power adapter into a surge-protected power outlet.
- 4. Wait for the GWN7000 to boot up and connect to internet/network. In the front of the GWN7000 the Power LED will be in solid green, and the WAN LED will flash in green.
- 5. Connect one of the LAN ports to your computer, the associated LED ports will flash in green.
- 6. Connect LAN ports to your GWN76xx access points or/and other devices, the associated LED ports will flash in green as displayed on the following diagram.



Figure 1: System Installation & Deployment

Access WEB GUI

The GWN7000 embedded Web server responds to HTTPS GET/POST requests. Embedded HTML pages allow users to configure the device through a Web browser such as Microsoft IE, Mozilla Firefox, Google Chrome and etc.







Figure 2: GWN7000 Web GUI Login Page

To access the GWN7000 Web GUI, please refer following steps:

- 1. Connect a computer to a LAN Port of the GWN7000.
- 2. Ensure the device is properly powered up, and the Power, LAN port LEDs light up in green.
- 3. Open a Web browser on the computer and enter the web GUI URL in the following format: https://192.168.1.1
- 4. Enter the administrator's login and password to access the Web Configuration Menu. The default administrator's username and password are "admin" and "admin".

Note: At first boot or after factory reset, users will be asked to change the default administrator password before accessing GWN7000 web interface. The new password field is case sensitive with a maximum length of 32 characters. Using strong password including letters, digits and special characters is recommended for better security.





MANAGING WIFI NETWORK USING GWN76XX

The GWN7000 Enterprise Router provides users capability to create a wireless network by adding multiple GWN7600 series access points using the most common wireless standards (802.11b/g/n) operating in both 2.4GHz and 5GHz range. GWN7000 can manage up to 300 GWN76xx Access Points.

On this chapter, we will describe in depth how to discover and add the GWN76xx Access Point to GWN7000 Router and how create / manage Wi-Fi zones.

Power and Connect GWN76xx Access Point

- 1. Connect one end of a RJ-45 Ethernet cable into the NET or PoE/NET port of the GWN76xx.
- 2. Connect the other end of the Ethernet cable(s) into a LAN port of the GWN7000 Router (or to a switch connected into LAN port of the GWN7000 router so that the access point becomes the LAN client of the GWN7000 router).
- 3. Connect the 24V DC power adapter into the power jack on the back of the GWN76xx and insert the main plug of the power adapter into a surge-protected power outlet.

Notes:

- GWN76xx can be powered using PoE/PoE+ switch via PoE/NET port. In this scenario, GWN76xx should be connected to GWN7000 using NET port.
- PoE+ is required to transmit at the highest power, while PoE will at reduced power.
- GWN76xx has a PoE detection daemon that will monitor the status and update maximum allowable power for radio and USB in real time.
- 4. Wait for the GWN76xx to boot up and acquire an IP address from the GWN7000.

Discover and Pair GWN76xx Access Points

The GWN76xx is a powerful access point which is fully compatible with the GWN7000 and can be added, provisioned and managed in an easy and intuitive way using the web GUI of the GWN7000 router. Once the GWN76xx is successfully connected and has an IP from the GWN7000 router, users can then pair it to the GWN7000 and associate it with a Wireless Zone.

To pair the GWN76xx access point, please refer to following steps:

- 1. Access the GWN7000 Web GUI using the administrator username and password. (Default username / password are: admin/admin)
- 2. Navigate to Access Points page which list and display available GWN76xx access points.
- 3. Clicks on **Discover AP** button to display discovered access points within GWN7000's Network as displayed on following screenshot.

Note: When the GWN76xx access point is connected to GWN7000 via LAN port and not paired, it will start blinking with a purple color.





S GWN70	00					⑦ Q		English 🗸	admin [→
Overview		Acces	Discovered De	vices			×		Discover AP
Router	•	Devic	Device Type	MAC	IP Address	Firmware	Actions		
Access Points			GWN7610	00:0B:82:8B:4D:D8	192.168.1.24	1.0.2.15	S		
Clients		<u></u>	Showing 1-1 of 1 r	ecord(s).			Per Page: 10 🔻		Q
VPN	•							Firmware	Actioi
Firewall	•								
Network Group	•								
System Settings	*								

Figure 3: GWN7000 Discovering Access Points

4. Click Solution for the selected device to pair it with GWN7000 Router.

S GWN70	000	Firmware	1.0.2.62			0 Q	15s 🗸 🛛 Eng	glish 🗸	admin [→
Overview		Acces	Discovered De	vices			×		Discover AP
Router	•	Devic	Device Type	MAC	IP Address	Firmware	Actions		
Access Points			GWN7610	00:0B:82:8B:4D:D8	192.168.1.24	1.0.2.15	S		
Clients		ۍ ر	Showing 1-1 of 1 r	ecord(s).			Per Page: 10 🔻		, Q
VPN	-						Fi	rmware	Actio
Firewall	•								
Network Group	•								
System Settings	-								
				Figure 4: Pair	the Discovered	GWN76XX			

Notes:

• During provisioning, device status shows **Provisioning** as displayed on following screenshot.

Device Type	Name/MAC	IP Address	Status	Uptime	Firmware	Actions
GWN7610	00:0B:82:8B:4D:D8	192.168.1.24	Provisioning]	1.0.2.15	Ċ V

Figure 5: Pair the Discovered GWN76XX Provisioning Status

 Once the access point is paired and connected successfully, it will appear as Online. Afterwards, it will also display its relevant information such as its name, MAC address, IP address, uptime and firmware version loaded.

Device Type	Name/MAC	IP Address	Status	Uptime	Firmware	Actions
GWN7610	00:0B:82:8B:4D:D8	192.168.1.24	Online	1h 19m 9s	1.0.2.15	<u>Ľ</u> 72

Figure 6: GWN76XX Online Status





• When the access point is not reaching the GWN7000, it will appear as Offline.

Device Type	Name/MAC	IP Address	Status	Uptime	Firmware	Actions
GWN7610	00:0B:82:8B:4D:D8		Offline	1h 34m 31s	1.0.2.15	r 73

Figure 7: GWN7600 Offline Status

To unpair an access point, click on unpair button ²².

Note:

If the GWN76xx is not being paired, or the pair icon is grey color, make sure that it's not being paired with another GWN7000 Router or GWN76xx Access Point acting as Master Controller, if yes users will need to unpair it first, or reset it to factory default settings to make it available for pairing.

GWN76xx Access Point Configuration

The GWN76xx access point can be easily managed and configured from the GWN7000 Web GUI. The GWN7000 acts as controller for all paired GWN76xx access points.

To configure the paired GWN76xx access point, please refer to following steps:

- 1. Access the GWN7000 Web GUI using the administrator username and password. (Default username / password are: admin/admin)
- 2. Navigate to Access Points page which list and display available / paired GWN76xx access points.
- 3. Select the desired access point and click on **Edit** button under **Actions** to access GWN76xx Device Configuration which combine the status, users and configuration settings of the GWN76xx access point.

Device Type	Name/MAC	IP Address	Status	Uptime	Firmware	Actions
GWN7610	00:0B:82:8B:4D:D8	192.168.1.24	Online	5m 51s	1.0.2.15	1

Figure 8: Edit Button on GWN76xx





	Device Configuration						
Status	Users	Configuration					
MAC	00:0B:82:8B:4D:D8						
Product Model	GWN7610						
Part Number	9640000212A						
Boot Version	255.255.2						
Firmware Version	1.0.2.15						
IP Address	192.168.1.24						
Uptime	7m 31s						
Load Average 🔅	0.10 0.31 0.22						
Link Speed	NET/POE : 1000M/FD						
	NET : Disconnected						
2.4GHz Radio Status	Channel : 0						
	Users Count : 0						
5GHz Radio Status	Channel : 0						
	Users Count : 0						
	Save Cancel						

Figure 9: GWN76xx Device Configuration

The following table describes GWN76xx Access Point configuration settings:

Table 1: GWN76XX Device Configuration

Status	Shows the device's status information such as Firmware version, IP Address, Link Speed, Uptime, and Users count via different Radio channels.									
Users	shows the users connected to the GWN76xx access point.									
Occution	 Device Name Set GWN76xx's name to identify it along with its MAC address. Fixed IP Used to set a static IP for the GWN76xx, if checked users will need to set the following: 									
Configuration	 <i>IPv4 Address</i> Enter the IPv4 address to be set as static for the device <i>IPv4 Subnet Mask</i> Enter the Subnet Mask. <i>IPv4 Gateway</i> Enter the Network Gateway's IPv4 Address. 									





- Preferred IPv4 DNS
 - Enter the Primary IPv4 DNS.
 - Alternate IPv4 DNS Enter the Alternate IPv4 DNS.
- Frequency

Set the GWN76xx's frequency, it can be either 2.4GHz, 5GHz or Dual-band.

• Enable Band Steering

When Frequency is set to Dual-Band, users can check this option to enable Band Steering on the Access Point.

This will help redirecting clients to a radio band accordingly for efficient use and to benefit from the maximum throughput supported by the client.

Mode

Choose the mode for the frequency band, 802.11n/g/b for 2.4Ghz and 802.11ac for 5Ghz.

Channel Width

Choose the Channel Width, note that wide channel will give better speed/throughput, and narrow channel will have less interference. 20Mhz is suggested in very high density environment.

• 40MHz Channel Location

Configure the 40MHz channel location when using 20MHz/40MHz in Channel Width, users can set it to be "Secondary Below Primary", "Primary Below Secondary" or "Auto".

• Channel

Select "Auto" or a specific channel. Default is "Auto". Note that the proposed channels depend on **Country** Settings under System Settings–>Maintenance.

- Enable Short Guard Interval Check to activate this option to increase throughput.
- Active Spatial Streams

Choose active spatial stream. Available options: "Auto", "1 stream", "2 streams" and "3 streams" (For GWN7610).

Radio Power

Set the Radio Power depending on desired cell size to be broadcasted, three options are available: "Low", "Medium" or "High". Default is "High".





MANAGING GROUPS AND SSIDS

Network Groups

Users can create different Network groups separated by VLANs and adding paired GWN76xx Access Points.

Following steps describe in depth how to add / manage existing network groups

- 1. Access the GWN7000 Web GUI using the administrator username and password. (Default username / password are: admin/admin)
- 2. Access to Network Group-> Network Group.

Overview		+ Add								
Bouter	•	Network Group I	NaEnabled	SSID	Enable Wi-Fi	WAN Membership	LAN Membership	VLAN ID	IP Address	Actions
Access Points		Group1	~	Wifi-2	~	WAN Port 1	lan0	2	192.168.2.1	ď
Clients		group0	~	GWN8B4DD8	~	WAN Port 1			192.168.1.1	r d
VPN	÷									
Firewall	-									
Network Group	-									
Network Group										

Figure 10: Network Group

Note:

The GWN7000 will have a default network group named "group0", click 2 to edit it, or click 2 Add to add a new network group.





	Add		×
Basic	Wi-Fi	Device Membership	
Network Group Name 🕐			
Enabled			
WAN Membership 🕐	Multi-WAN	¥	
LAN Membership 🕐	lan0	¥	
VLAN			
VLAN ID	3		
Enable IPv4 🕐			
Enable IPv6 🕐			
Enable Landing Page			
Landing Page URL			
	Save Cancel		

Figure 11: Add a New Network Group -> Basic Settings

When editing or adding a new network group, users will have three tabs for configuration:

• **Basic:** Used to name the network group, and set a VLAN ID if adding a new network group, and addressing plans, refer to below table for each field:

Table 2: Network Group -> Basic						
Network Group Name	Specifies the name for the network group.					
WAN Membership	Select the WAN port membership. Users can benefit from Multi-WAN option if enabled under Router->Port->Global Settings					
LAN Membership	Select the LAN port membership.					
VLAN	Check to enable VLAN. This field is appearing only when having more than a network group.					





VLAN ID	Set a VLAN ID. Valid range is between 2 and 4093.			
Enable IPv4	Check to enable IPv4 addressing for this network group			
IPv4 Static Address	Set a static IPv4 address for the network group when enabling IPv4.			
IPv4 Subnet Mask	Set the Subnet Mask.			
DHCP Enabled for IPv4	Check to enable DHCP using IPv4. This will allow clients connected to this network group to get IPv4 addresses automatically from GWN7000 acting as DHCP server.			
DHCP Start Address	Set the starting IPv4 address for this network group's clients.			
DHCP End Address	Set the ending IPv4 address for this network group's clients			
DHCP Lease Time	Set the lease time for DHCP clients users can set the value in hours minutes, or as "infinite". Default lease time is "12h".			
DHCPv4 Options	Set the DHCP options. Click on 🔁 to add another option, and 🖨 to delete an option. Example: 44,192.168.2.50 for DHCP option 44 and 192.168.2.50 is the WINS server's address. Please refer to the following link for DHCP options syntax: https://wiki.openwrt.org/doc/howto/dhcp.dnsmasq			
DHCPv4 Relay Enabled	Enable this option, if you want the GWN7000 relays the DHCP requests from clients to another DHCP server(s). Once checked Click on \bigcirc to add another DHCPv4 Relay Target, and \bigcirc to delete a DHCPv4 Relay Target.			
Enable IPv4	Check to enable IPv6 addressing for this network group.			
IPv6 Relay from WAN	Check to allow GWN7000 to relay IPv6 DHCP request from network group's clients to WAN port.			
DHCP Enabled for IPv6	Check weather to enable IPv6 DHCP server for this network group.			
IPv6 Prefix for Assignment	Set the prefix value to be assigned to the network group. Valid range is between 1 to 64. Example: 64 will assign /64 prefixes.			
IPv6 Subnet Hint	Set the subnet mask value.			
IPv6 Uplink	Select the WAN port.			
Enable Landing Page Check to enable landing page when connecting to this network growthered wi-Fi.				
Landing Page URL	Set the landing page URL to which clients will be redirected once connected to the network group's Wi-Fi.			





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

	Add		×
Basic	Wi-Fi	Device Membership	
Enable Wi-Fi			
SSID 📀			
SSID Hidden			
Security Mode	WPA2	¥	
WPA Key Mode	PSK	¥	
WPA Encryption Type	AES	¥	
WPA Pre-Shared Key 🕐		Ø	
Use MAC Filtering	Disabled	¥	
Client Isolation 흿			
Enable RSSI 🔅			
Minimum RSSI (dBm) 🕐			
	Save		

Figure 12: Add a New Network Group -> Wi-Fi Settings

	Table 3: Network Group -> Wi-Fi
Enable Wi-Fi	Check to enable Wi-Fi for the network group.
SSID	Set or modify the SSID name.
	Select to hide SSID. SSID will not be visible when scanning for Wi-Fi, to
SSID Hidden	connect a device to hidden SSID, users need to specify SSID name and
	authentication password manually.
	Set the security mode for encryption, 5 options are available:
Socurity Mode	• WEP 64-bit: Using a static WEP key. The characters can only be 0-9 or
Security wode	A-F with a length of 10, or printable ASCII characters with a length of 5.
	• WEP 128-bit: Using static WEP key. 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.
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	Choose if client isolation will be enabled in order to forbid wireless clients connected to the zone's Wi-Fi from seeing each other. If enabled users will need to specify the Gateway's MAC address so users, will not lose access to the Network.
Gateway MAC Address	Type in the Gateway's MAC address if using Client Isolation.
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".

• Device Membership: Used to add or remove paired access points to the network group.





	Add		×
Basic	Wi-Fi	Device Membership	
Available Devices		Member Devices	
00:0B:82:8B:4D:D8	* *		*
	Save	Cancel	

Figure 13: Add a New Network Group -> Device Membership

Click on \rightarrow to add the GWN76xx to the network group, or click on \leftarrow to remove it.

Note: Users can also add a device to a Network Group from Access Points Page:

-	Select	the desired AP to a	n 🔀 Add	to Network Groups	button.		
	🕥 Upgrade	🗘 Reboot 🗙 Add to	Network Groups				\$
	Device Type	Name/MAC	IP Address	Status	Uptime	Firmware	Actions
	GWN7610	00:0B:82:8B:4D:D8	192.168.1.24	Online	3h 9m 36s	1.0.2.15	<u>Ľ</u> 72

Figure 14: Add AP to Network Group from Access Points Page

- Check to select the desired Network, on which the selected APs will be added, as shown in the following figure.

		Add to Network Groups	\times				
Note: If the selected AP has been added to other network groups, this setting would overwrite the original operation.							
All	None						
group0							
Group1							

Figure 15: Select the Network Group for The Access Point





SSIDs

Create an SSID under a Network Group

To create an SSID under a network group, please refer to following steps:

- 1. Under Network Group Page, click to edit a network group or create a new network group.
- 2. Navigate to Wi-Fi tab.

(Please refer to Table 3: Network Group -> Wi-Fi for more details about the Wi-Fi configuration settings.)

	Add		×
Basic	Wi-Fi	Device Membership	1
Enable Wi-Fi			1
SSID 💮			
SSID Hidden			
Security Mode	WPA2	Ŧ	
WPA Key Mode	PSK	Ŧ	
WPA Encryption Type	AES	Ŧ	
WPA Pre-Shared Key 🤅		\odot	
Use MAC Filtering	Disabled	Ŧ	
Client Isolation 🤅			
Enable RSSI 🔅			
Minimum RSSI (dBm) 🔅			
	Save Cancel		

Figure 16: Create an SSID

Additional SSID under Same Network Group

Users can also create an additional SSID under the same group. To create an additional SSID:

1. Access to Network Group->Additional SSID.





	Add	×
Enable Additional SSID		1
SSID (?)]
Network Group Membership	group0	
SSID Hidden		
Security Mode	WPA2	
WPA Key Mode	PSK]
WPA Encryption Type	AES]
WPA Pre-Shared Key 🔅	•	
Use MAC Filtering	Disabled]
Client Isolation		
Enable RSSI 🔅		
Minimum RSSI (dBm) 🔅		
Enable Landing Page		
Landing Page URL		
	Save Cancel	-

Figure 17: Additional SSID

2. Select one of the available network groups from **Network Group Membership** dropdown menu, this will create an additional SSID with the same Device Membership configured when creating the main network group.

N	Note : Users can click on $^{\textcircled{1}}$ to delete the additional SSID, or $\overset{\textcircled{1}}{}$ to edit it.								
	SSID	Enabled	Network Group	Hidden	Security Mode	MAC Filtering	Client Isolatio	RSSI	Actions
	Additional	~	group0	×	WPA2	Disabled	×	×	🗹

Figure 18: Additional SSID Created





CLIENTS MANAGEMENT

Connected clients to different network groups can be shown and managed from a single interface. Users can access clients list from GWN7000's **Web GUI** -> **Clients** to perform different actions to wired and wireless clients.

GWN7000 Enterprise Router with its DHCP server enabled on LAN ports level, will assign automatically an IP address to the devices connected to its LAN ports like a computer or GWN76xx access points and to wireless clients connected to paired GWN76xx access points.

All Network Groups	▼ Wired	& Wireless		adios	•				Onlin Total	e:24 :123
MAC	Hostname 🔺	Туре	IP Address	Radio/Channel	Status	AP	Throughput	Aggregate	A	ctions
00:0B:82:76:F4:29		Wired	192.168.6.213		Offline	Wired	TX:0b/s RX:0b/s	TX:0b RX:0b	Ľ	¢,
00:0B:82:75:21:20		Wired	192.168.6.141		Online	Wired	TX:0b/s RX:0b/s	TX:0b RX:0b	Ľ	¢
B0:83:FE:6D:3C:C6		Wired	192.168.6.237		Online	Wired	TX:0b/s RX:0b/s	TX:0b RX:0b	ľ	¢
00:0B:82:6B:10:52		Wired	192.168.6.145		Offline	Wired	TX:0b/s RX:0b/s	TX:0b RX:0b	Ľ	¢
00:0B:82:5E:66:D9		Wired	192.168.6.229		Offline	Wired	TX:0b/s RX:0b/s	TX:0b RX:0b	Ľ	¢
24:77:03:C8:72:90	DESKTOP-1A7	Wireless	192.168.6.150	5GHz 36	Offline	00:0B:82:8B:4E:28	TX:515B/s RX:0b/s	TX:5.61MB RX:6.78MB	Ľ	¢
24:77:03:F3:E4:14	DESKTOP-UDU.	. Wireless	192.168.6.93	2.4GHz 1	Offline	00:0B:82:8B:4D:D4	TX:17.47KB/s RX:24.09KB/s	TX:34.95KB RX:48.18KB	Ľ	¢
A4:1F:72:6B:FD:09	EMEA-PC.lan	Wired	192.168.6.74		Offline	Wired	TX:0b/s RX:0b/s	TX:0b RX:0b	Ľ	¢
88:51:FB:57:7D:B0	Surveillance-PC	Wired	192.168.6.75		Online	Wired	TX:0b/s RX:0b/s	TX:0b RX:0b	Ľ	¢
F0:9A:51:0B:82:33	android-c887b	. Wireless	192.168.6.29	2.4GHz 1	Offline	00:0B:82:8B:4D:D4	TX:0b/s RX:0b/s	TX:652.51KB RX:113.40KB	ľ	¢
Showing 61-70 of 123	3 record(s).	◀ 1	2 3 4 5	6 7 8	12 13 🕨	Jump to:	Go	Per Page:	10	¥

Figure 19: Clients

Click on

under Actions to check the client's status and modify its configuration.

Status

This page allows to check user's basic information such as MAC address, IP address, which Network group does it belong to, and to which access point if it's a wireless client, as well as Throughput and Aggregate usage.





	User Configuration	×
Status	Configuration	
MAC	24:77:03:C8:72:90	
Hostname	DESKTOP-1A70NOV.lan	
Network Group	group0	
Connection Type	Wireless	
IP Address	192.168.6.150	
Connected Time	00:21:15	
Connected AP	00:0B:82:8B:4E:28	
Channel	36	
Aggregate	TX:5.61MB, RX:6.78MB	
Throughput	TX:515B/s, RX:0b/s	
	Save Cancel	

Figure 20: Client's Status

Edit IP and Name

Users can set name for a client and set a static IP

User Configuration						
Status	Confi	guration				
Name 🧿	PC1Lab]				
Fixed IP 🛞						
IP Address	192.168.6.150]				







Block a client

To block a client, click on	😡 under actions.
-----------------------------	------------------

MAC	Hostname	Туре	IP Address	Radio/Chann	el Status	AP	Throughput	Aggregate		А	ctions
C8:38:70:3C:11:A6	android-ce522	Wireless	192.168.1.32	2.4GHz 11	Online 00:06:38	00:0B:82:8B:4E:24	TX:844B/s RX:1.14KB/s	TX:93.06KB RX:73.33KB		Ċ	®.
Showing 1-1 of 1 reco	ord(s).								Per Page:	10	Block

Figure 22: Block a Client

To unban a client, go to Router -> Port -> Global Settings. Click on 😑 to remove it from the banned list.

WAN Port Setting	5								
WAN Port 1	WAN Port 2	Tunnel	LAN Port	Global Settings	Port Mirroring				
Multi-WAN ③ Disabled 🔹									
	Banned Client MAC 🤅	c8:38:70:3c:11:a6		•					
			Ad	ld new item 🕂					

Figure 23: Unban Client





DEPLOYMENT EXAMPLES

Deployment with Single GWN76xx Access Point

In this scenario, only one GWN76xx Access point is connected to GWN7000 network providing WiFi connection to users. GWN7000 is connected to Internet via its WAN port.



Figure 24: Deployment with Single GWN76xx Access Point

Deployment with Multiple GWN76xx Access Points

In this scenario, multiple GWN76xx Access points are connected to GWN7000 network (either directly or via a switch) providing WiFi connection to users. GWN7000 is connected to Internet via its WAN port. GWN7000 can manage up to 300 GWN76xx Access Points.



Figure 25: Deployment with Multiple GWN76xx Access Points

