



# Grandstream Networks, Inc.

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## Client Isolation Configuration Guide



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## INTRODUCTION

GWN76xx Access Points support client isolation feature with different types allowing users to better manage access to their WiFi networks.

In environments where WiFi access needs to be provided to clients but with some restrictions/control, such as allowing them to access Internet without accessing other Wireless devices, providing Internet access but restricting access to management devices (GWN76xx access points and GWN7000 routers), the GWN76xx Client Isolation is the best solution to meet such requirements.

Without client isolation, anyone on a wireless internet connection in a Wi-Fi hotspot will have full access to the various wireless devices connected to Wi-Fi network at that time.

GWN76xx Client Isolation feature can be used for each WiFi network SSID created allowing to define for instance a WiFi network for production without restriction and another WiFi network for guests restricting access to network resources but allowing Internet access only.

This guide covers supported mode for GWN76xx Client Isolation and needed steps to configure them.



## CLIENT ISOLATION MODES

GWN76xx Client Isolation feature supports 3 modes:

- **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 GWN76xx access points.
- **Gateway MAC Mode:** Wireless clients can only communicate with the gateway, the communication between Wireless clients is blocked and they cannot access any of the management services on the GWN76xx access points.
- **Radio Mode:** Wireless clients can access to the internet services, GWN7000 router and the access points GWN76xx but they cannot communicate with other Wireless clients.



## CLIENT ISOLATION CONFIGURATION

In this chapter, we assume the following:

- WiFi network with SSID **GWN\_Guest** is already created using default network group “group0”.
- Client Isolation will be applied on GWN\_Guest network.

### Notes:

- Users can create additional SSIDs under same or different network groups and apply Client Isolation configuration on each one of them.
- Client Isolation configuration can be done from GWN76xx acting as Master or from GWN7000 router acting as controller.

### Client Isolation - Internet Mode

Using **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 GWN7000 nor the access points GWN76xx.

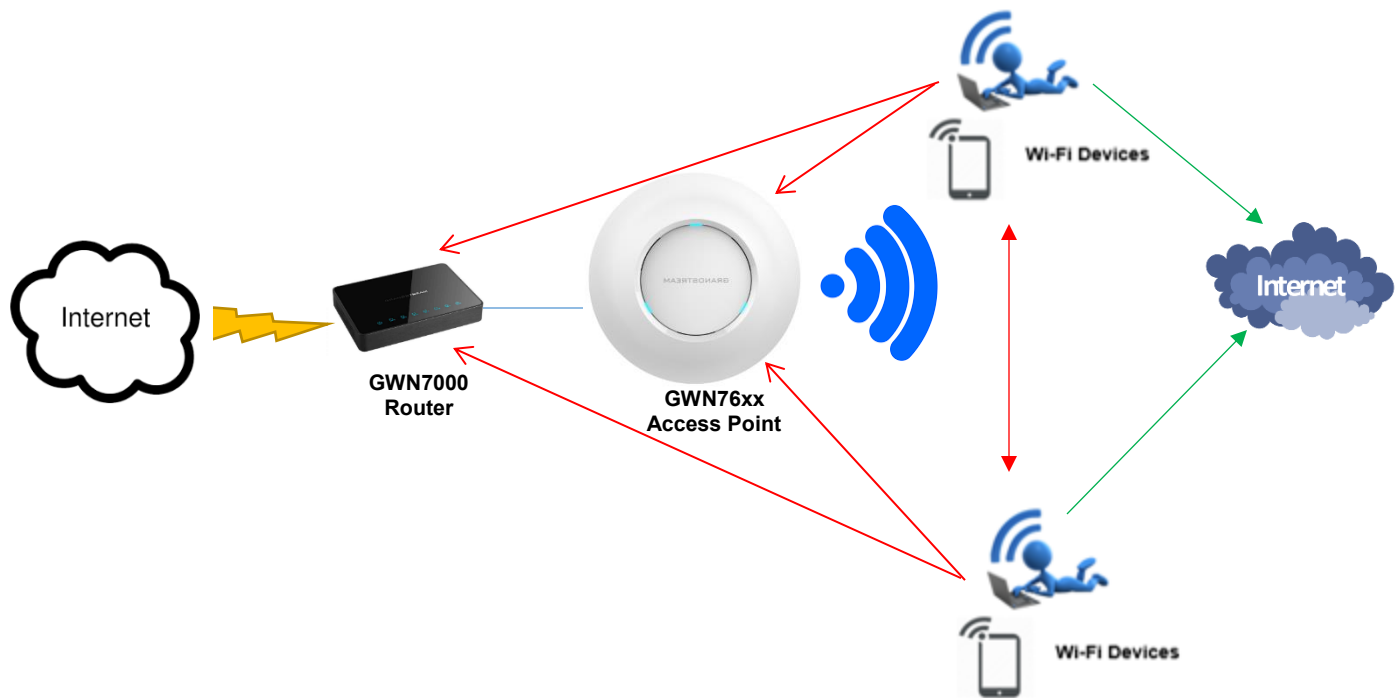




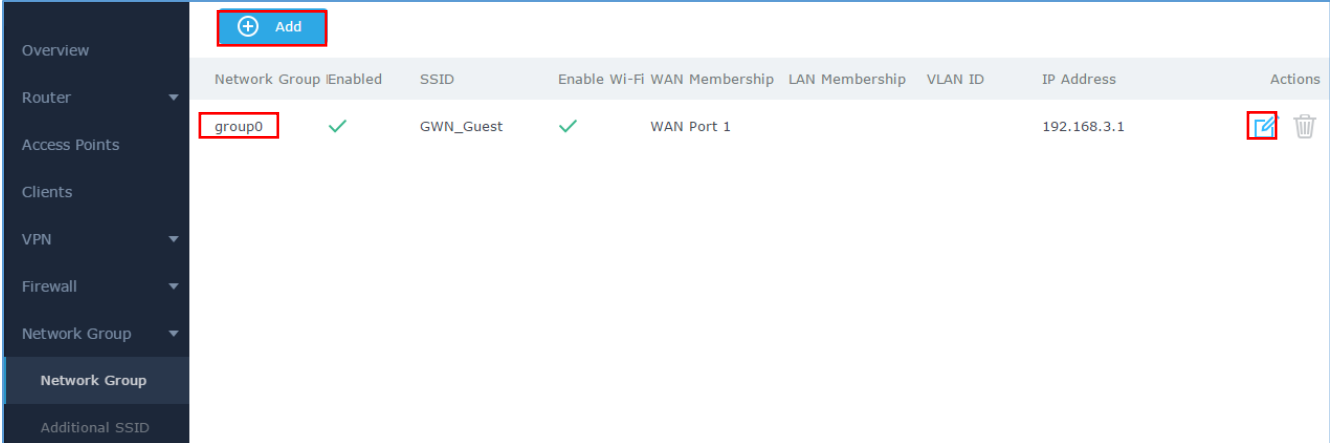
Figure 1: Client Isolation - Internet Mode



To configure your WiFi network with the isolation mode set to “**Internet mode**”, refer to following steps:

1. Access the Master GWN76xx using the administrator username and password. (Default username/password are: admin/admin).
2. Access to **Network Group** → **Network Group**.



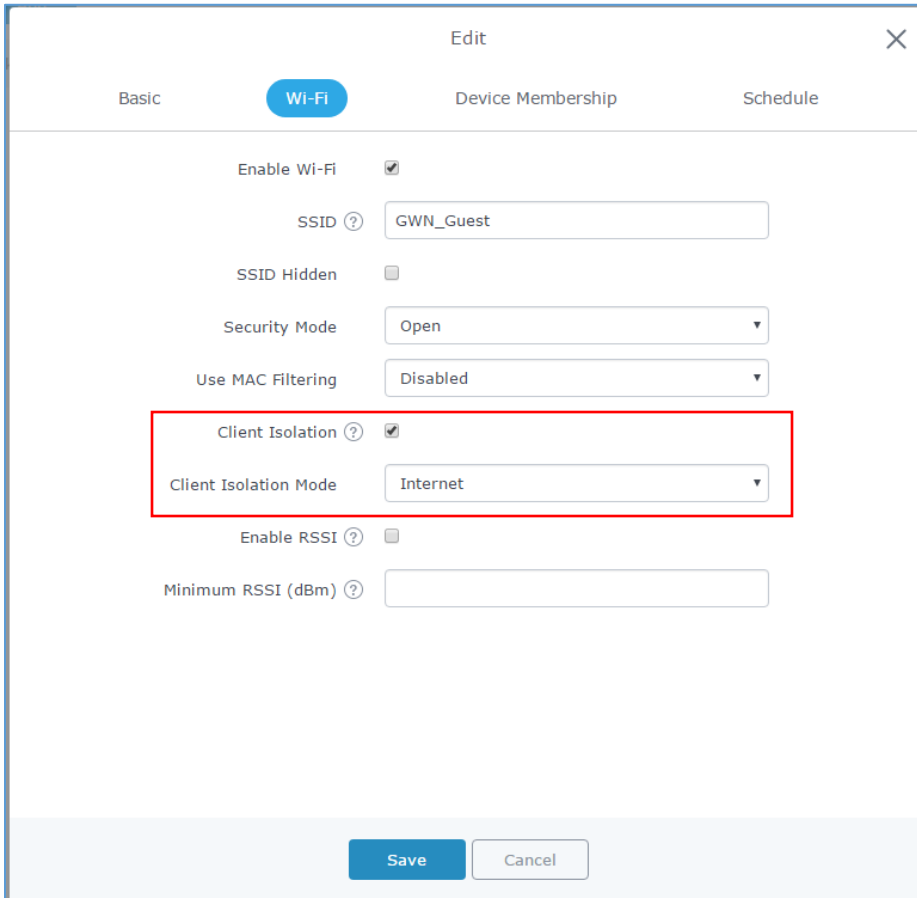
- Click  to edit a network group or click  to create a new network group. (In our example, we are using the default network group).



Network Group	Enabled	SSID	Enable Wi-Fi WAN Membership	LAN Membership	VLAN ID	IP Address	Actions
group0	✓	GWN_Guest	✓	WAN Port 1		192.168.3.1	 

**Figure 2: Network Group → Internet Mode**

- Navigate to **Wi-Fi** tab and configure your SSID with its security mode and set client isolation to **“Internet”** as displayed on the following screenshot.



Edit ✕

Basic Wi-Fi Device Membership Schedule

Enable Wi-Fi

SSID ?

SSID Hidden

Security Mode

Use MAC Filtering

Client Isolation ?

Client Isolation Mode

Enable RSSI ?

Minimum RSSI (dBm) ?

**Figure 3: Client Isolation Mode set to Internet**

- Press **Save** button to save and apply the new settings.



## Client Isolation - Radio Mode

Using **Radio Mode**, Wireless clients will be able to access to the internet services, GWN7xxx router and the access points GWN76xx but they cannot communicate with each other.

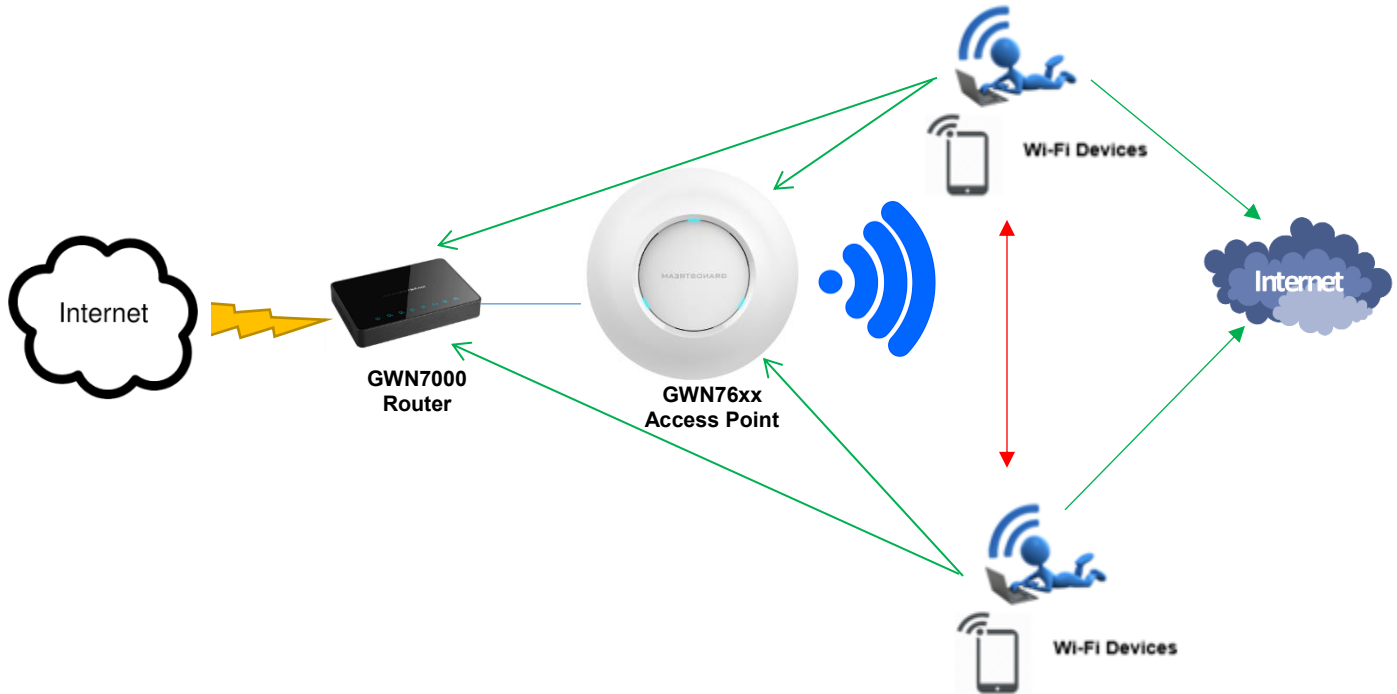


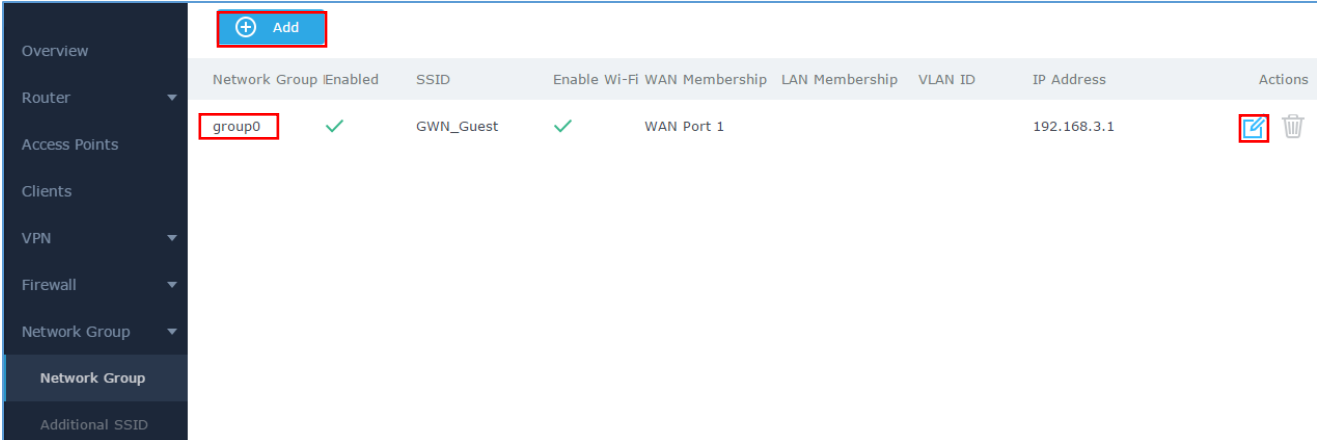




Figure 4: Client Isolation - Radio Mode

To configure your WiFi network with the isolation mode set to “**Radio Mode**”, please refer to following steps:

1. Access the Master GWN76xx using the administrator username and password. (Default username/password are: admin/admin).
2. Access to **Network Group** → **Network Group**.
3. Click  to edit a network group or click  to create a new network group. (In our example, we are using the default network group).

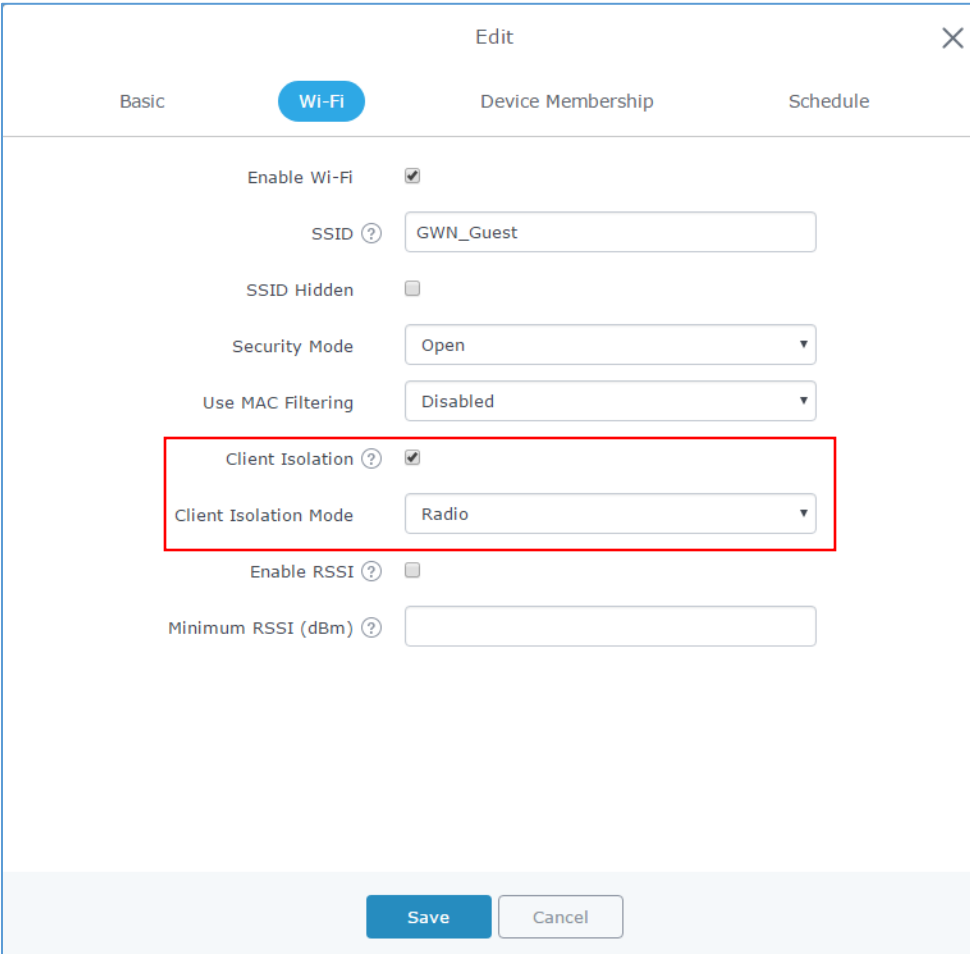




Network Group	Enabled	SSID	Enable Wi-Fi	WAN Membership	LAN Membership	VLAN ID	IP Address	Actions
group0	✓	GWN_Guest	✓	WAN Port 1			192.168.3.1	 

**Figure 5: Network Group → Radio Mode**

- Navigate to **Wi-Fi** tab and configure your SSID with its security mode and set client isolation to **“Radio Mode”** as displayed on the following screenshot.



Edit ✕

Basic    Wi-Fi    Device Membership    Schedule

---

Enable Wi-Fi

SSID

SSID Hidden

Security Mode

Use MAC Filtering

Client Isolation

Client Isolation Mode

Enable RSSI

Minimum RSSI (dBm)

Save    Cancel

**Figure 6: Client Isolation Mode set to Radio**

- Press **Save** button to save and apply the new settings.





## Client Isolation - Gateway MAC Mode

Using **Gateway Mode**, Wireless clients can only communicate with the gateway and access to network services, the communication between clients is blocked and they cannot access any of the management services on the GWN76xx access points.

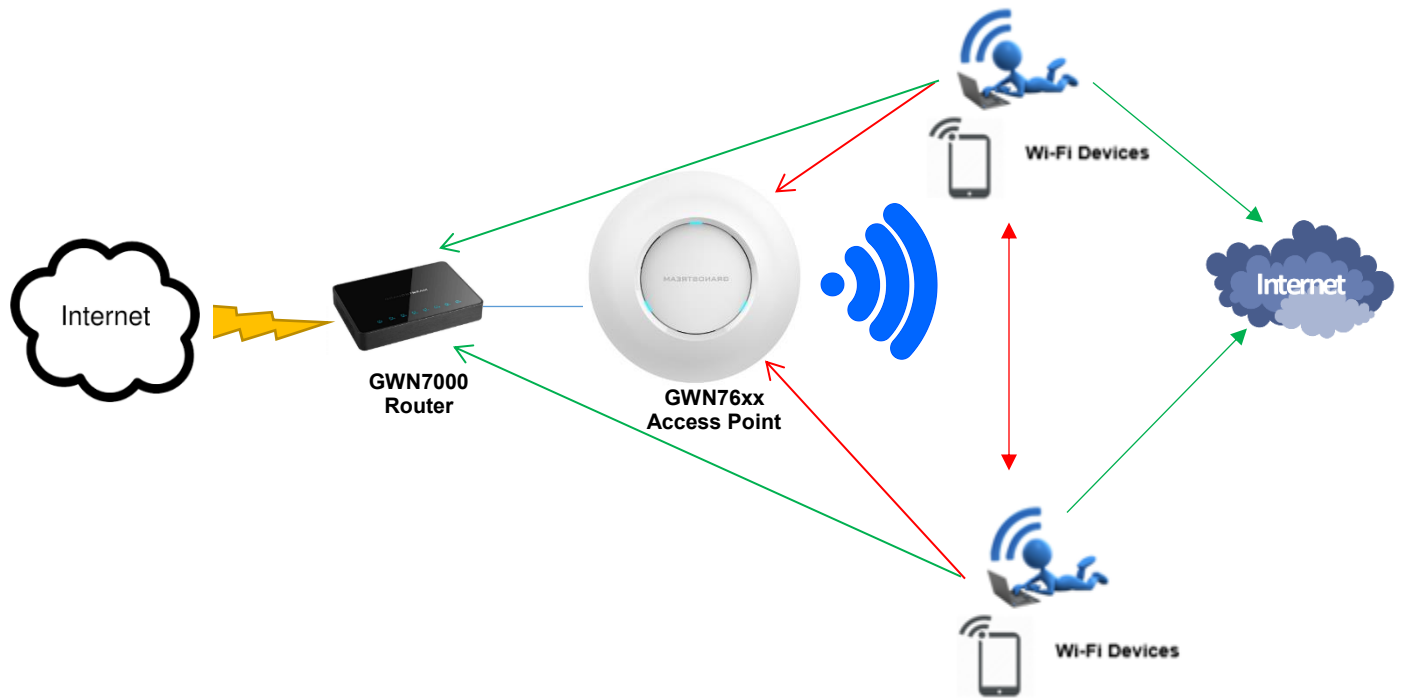






Figure 7: Client Isolation - Gateway MAC Mode

To configure your WiFi network with the isolation mode set to “**Gateway MAC mode**”, please refer to following steps:

1. Access the Master GWN76xx using the administrator username and password. (Default username/password are: admin/admin).
2. Access to **Network Group** → **Network** Group.
3. Click  to edit a network group or click  to create a new network group. (In our example, we are using the default network group).



Network Group	Enabled	SSID	Enable Wi-Fi	WAN Membership	LAN Membership	VLAN ID	IP Address	Actions
group0	✓	GWN_Guest	✓	WAN Port 1			192.168.3.1	 

**Figure 8: Network Group → Gateway MAC Mode**

- Navigate to **Wi-Fi** tab and configure your SSID with its security mode and set client isolation to **“Gateway MAC”** as displayed on the following screenshot.
- Specify the default LAN Gateway Mac address. In this scenario, GWN7000 router MAC address to allow access to the router and Internet.

Edit ✕

Basic
Wi-Fi
Device Membership
Schedule

Enable Wi-Fi

SSID

SSID Hidden

Security Mode

WPA Key Mode

WPA Encryption Type

WPA Pre-Shared Key

Use MAC Filtering

Client Isolation

Client Isolation Mode

Gateway MAC Address

Enable RSSI

Minimum RSSI (dBm)

Save
Cancel

**Figure 9: Client Isolation Mode set to Gateway MAC Mode**

- Press **Save** button to save and apply the new settings.

