Grandstream GWN7XXX Initial Configuration

Firmware 1.0.25.X – January 2026

First Steps

- Create a GDMS.CLOUD account

Add Devices

- Devices, Add – Add each of your devices

Devices

- Configure each access point and modify its **Channel** under each enabled frequency (2GHz, 5Ghz etc).
- Set each channel as far apart from its neighbouring access points (for example):

2GHz: CH1 / 5GHz: CH36

2GHz: CH6 / 5GHz: CH40

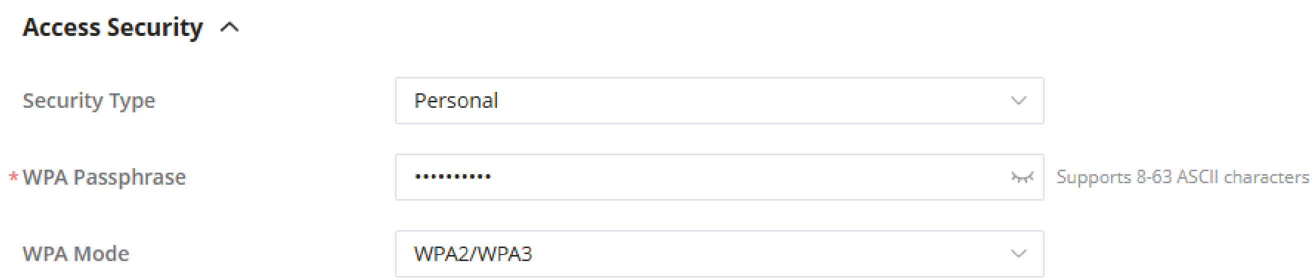
2GHz: CH11 / 5GHz: CH44

2GHz: CH1 / 5GHz: CH36

Settings -> Wifi

- Under GLOBAL RADIO SETTINGS set the following options:
  > Enable Minimum RSSI
  > Minimum RSSI (dBm): -70

- Rename the existing default SSID or add a new one and configure as required
- Please note: Under **Access Security** it is recommended to use **WPA3** or **WPA2/WPA3** if you want to achieve better speeds and security.

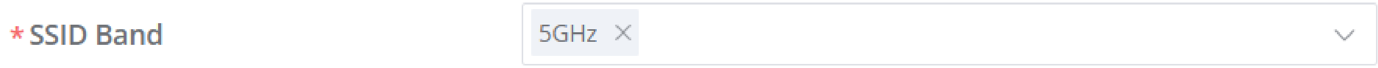


Roaming VOIP Settings

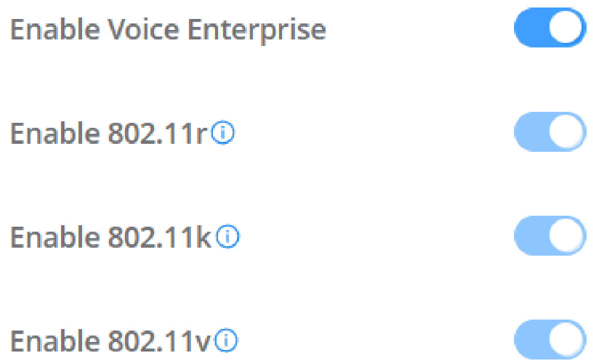
If you are planning on using your wireless network for fast roaming between access points, then it is recommended that you make the following configuration changes to one or more of your SSIDs:

<u>Settings -> Wifi</u>

- Basic -> SSID Band – it is recommended to use a single band as this will prevent unnecessary band switching for your devices.



- Advanced -> Enable Voice Enterprise – this will switch on 802.11r / 802.11k and 802.11v.
  If you have problems with any of the roaming protocols, then you can switch off Voice Enterprise and enable each option manually.   At least 802.11r is recommended.



If you have problems with some client devices not liking the roaming protocols then we would recommend setting up a separate SSID for your VOIP devices and standard devices.

Wifi Speed

Some access points are capable of very high throughput speeds but to achieve the higher speeds your network will also need to be capable of handling them.

For example:

if you access point is capable of 11Gbps and your network switch is only capable of 1Gbps then the maximum speed you will achieve is 1Gbps.

To achieve the higher speeds, you would need to utilise a 2.5Gbps or 10Gbps managed network switch, potentially with Link Aggregation (LAG) utilised.

The wireless network card in your client devices will have a maximum throughput speed.

If you are accessing the internet from your access points, then you will of course only achieve the maximum throughput speed of your router / broadband line.