

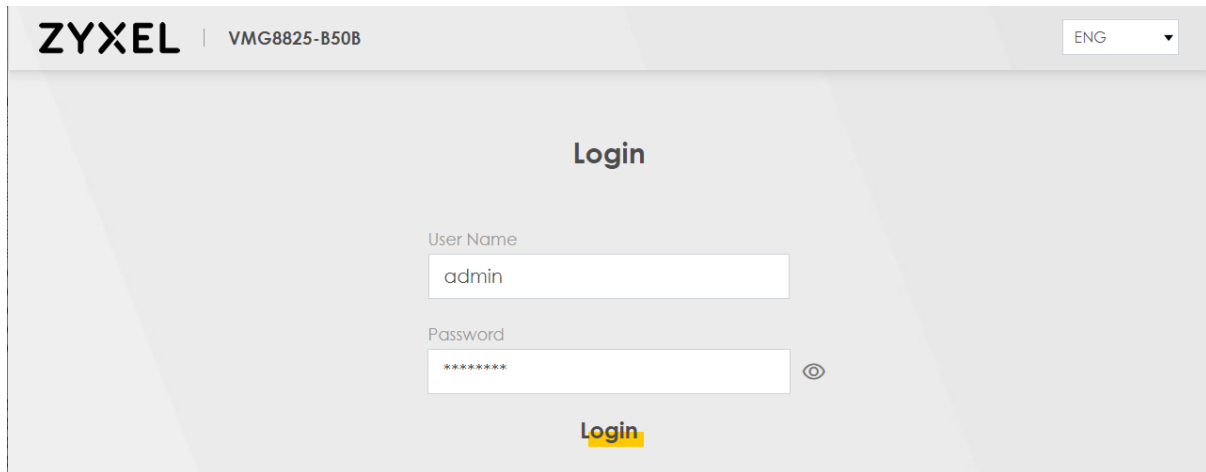
Zyxel Quick Guide

Logging in

To access the web interface on a Zyxel router first open a web browser on a device that is connected to the router. Within the address bar at the top type: 192.168.1.1 and press enter.

You will be brought to the Login page for the router

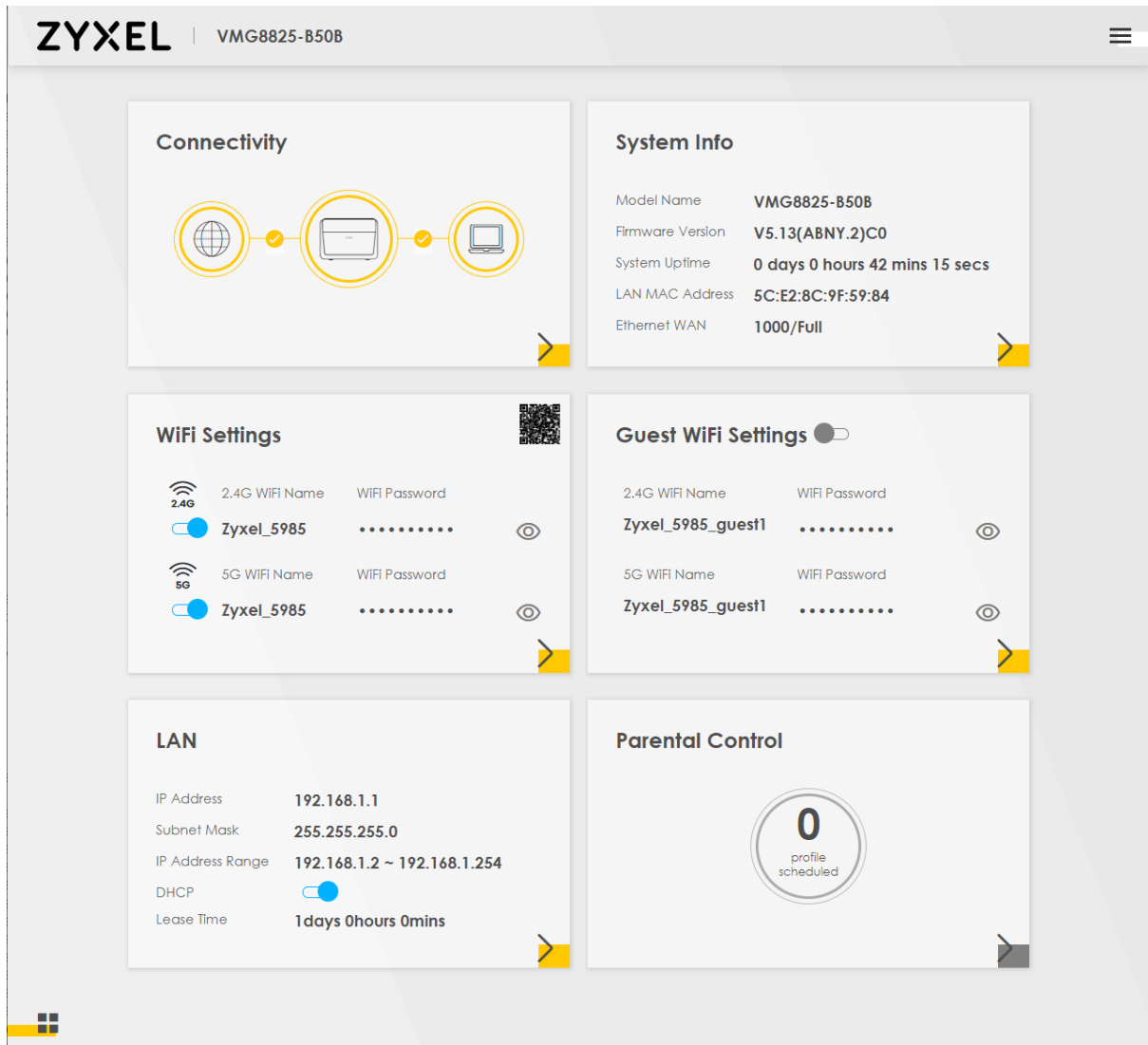
The login information will be on the card on the back of your router, username will be admin followed by an 8-character login password. Note that this is case sensitive.



The screenshot shows the Zyxel router's login interface. At the top left, the Zyxel logo and model number 'VMG8825-B50B' are displayed. On the top right, there is a language selection dropdown menu currently set to 'ENG'. The central heading is 'Login'. Below this, there are two input fields: 'User Name' containing the text 'admin' and 'Password' containing eight asterisks. To the right of the password field is an eye icon for toggling password visibility. At the bottom center, there is a yellow 'Login' button.

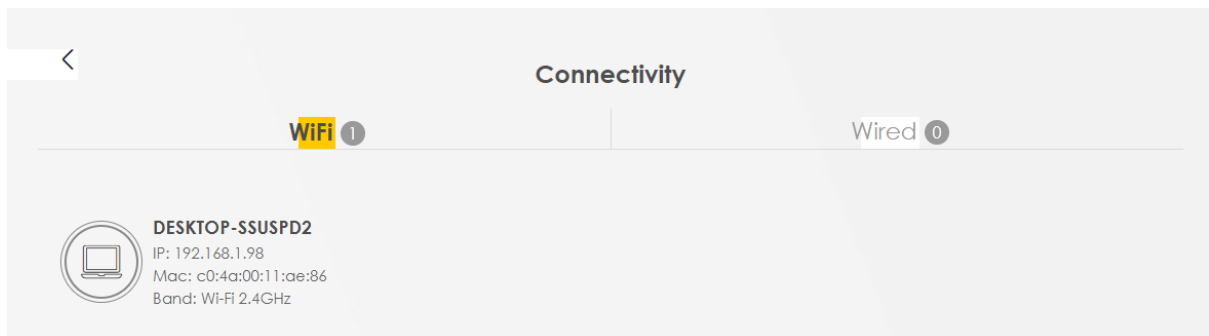
On the first-time logging in you will be asked to change these settings if you wish, but you can skip this step if you want to keep it simple.

After a successful login you will be brought to the router dashboard where you can easily access many functions of your router.



Connectivity

Within this tab you are able to see a list of devices that are connected to your router and some information about them.



System Info

Within this tab you are able to see some detailed information regarding your router including the uptime, connected interfaces and Wi-Fi information

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System Info

Host Name: VMG8825-B50B

Model Name: VMG8825-B50B

Serial number: S182V16003364

Firmware Version: V5.13(ABNY.2)CO

System Uptime: 0 days 0 hours 40 mins 39 secs

Interface Status

LAN1	LAN2	LAN3	LAN4	WAN	DSL	3G(USB)	WLAN	WLAN
-	-	-	-	1000M/Full	-	No Device	216 Mbps	1733 Mbps

WAN Information (Ethernet WAN)

Name	Global_Traffic
Encapsulation	IPoE
IP Address	5.83.8.99 Release
IP Subnet Mask	255.255.255.248
MAC Address	5C:E2:8C:9F:59:88
Primary DNS server	148.252.16.254
Secondary DNS server	185.201.32.254

Name	Management_Traffic
Encapsulation	IPoE
IP Address	10.24.72.22
IP Subnet Mask	255.255.255.0
MAC Address	5C:E2:8C:9F:59:89
Primary DNS server	10.24.72.1
Secondary DNS server	N/A

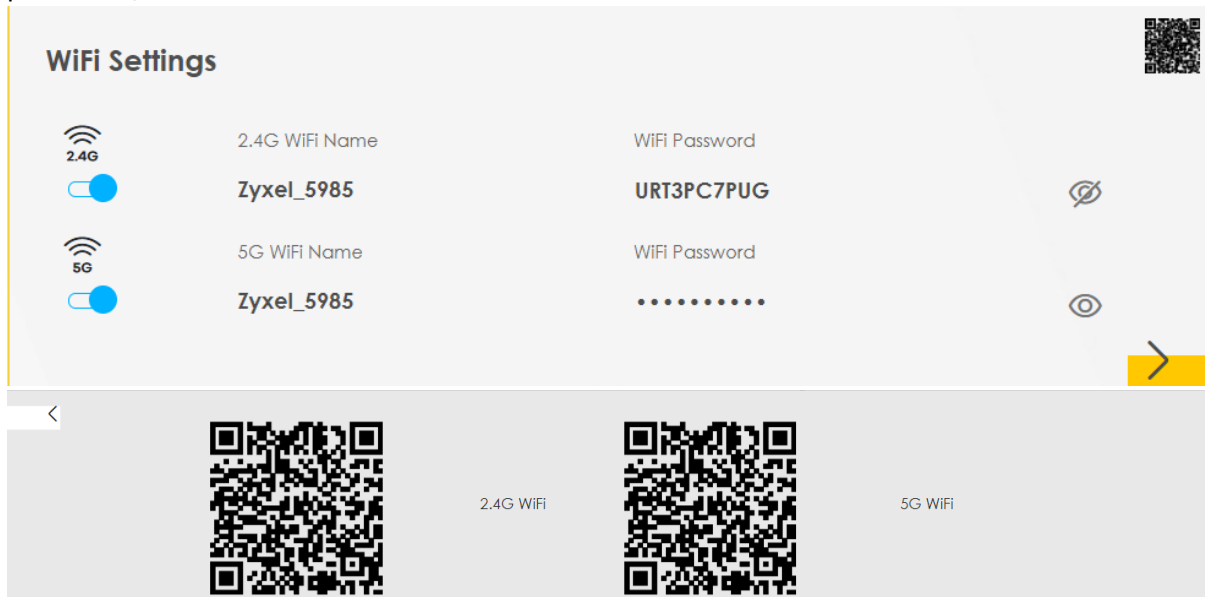
WLAN Information	2.4GHz	5GHz
MAC Address	5C:E2:8C:9F:59:85	5C:E2:8C:9F:59:86
Status	On	On
SSID	ZyxeI_5985	ZyxeI_5985
Channel	Auto(Current 3)	Auto(Current 100)
Security	WPA2-Personal	WPA2-Personal
802.11 Mode	802.11b/g/n Mixed	802.11a/n/ac Mixed
WPS	On	On

LAN Information

IP Address	192.168.1.1
Subnet Mask	255.255.255.0
IPv6 Address	

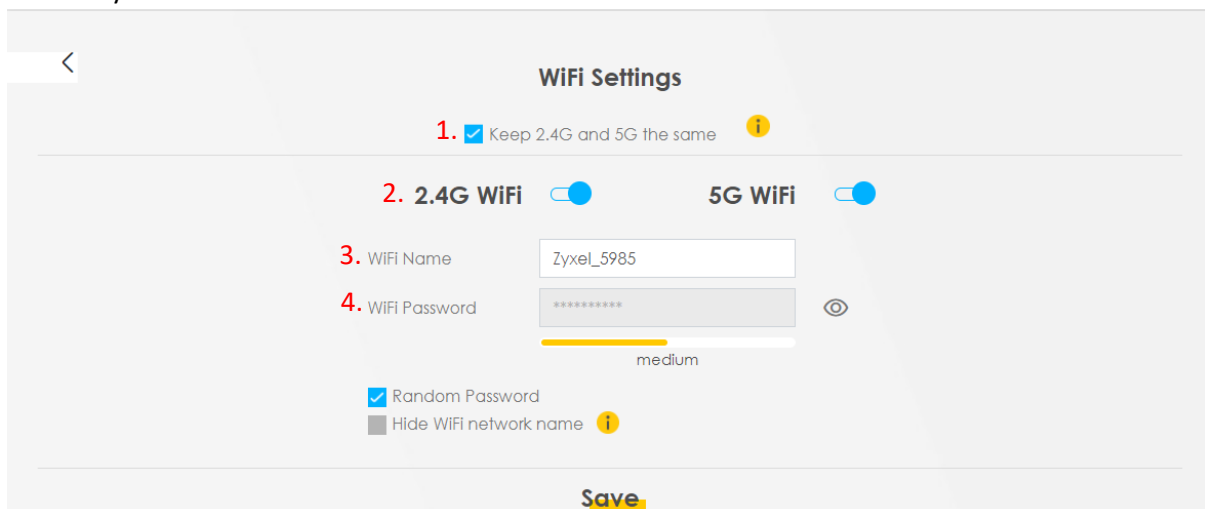
Wi-Fi Settings

From the main page you can quickly enable/disable the two bands of Wi-Fi, view the Wi-Fi passwords, and view the QR code for the Wi-Fi.



The QR code can be printed off and used by capable devices to quickly connect to the Wi-Fi with a camera.

Within the tab you can view and change your Wi-Fi settings relating to connecting to the device wirelessly



Here you can:

1. Separate the two bands of Wi-Fi
2. Disable either or both the bands of Wi-Fi
3. Change the SSID (Wi-Fi Name)
4. Change the Wi-Fi Password (Must uncheck random password first)

The screenshot shows the 'WiFi Settings' interface. At the top, there is a back arrow and the title 'WiFi Settings'. Below the title, there is a checkbox labeled 'Keep 2.4G and 5G the same' with an information icon. The '2.4G WiFi' toggle is turned off, and the '5G WiFi' toggle is turned on. The 'WiFi Name' field contains 'Zyxel User guide'. The 'WiFi Password' field contains 'Example_password1' and is marked as 'strong'. There are checkboxes for 'Random Password' and 'Hide WiFi network name' with an information icon. A 'Save' button is at the bottom.

Upon separating the Wi-Fi bands, you can then go back and change the settings separately

The screenshot shows the 'WiFi Settings' interface with the 'Keep 2.4G and 5G the same' checkbox unchecked. The settings are split into two columns. The left column is for '2.4G WiFi' (toggle on) with 'WiFi Name' 'Zyxel User guide 2.4Ghz' and 'WiFi Password' '2.4G pass' (marked 'strong'). The right column is for '5G WiFi' (toggle on) with 'WiFi Name' 'Zyxel User guide 5GHz' and 'WiFi Password' '5G pass' (marked 'medium'). Both columns have 'Random Password' and 'Hide WiFi network name' checkboxes with information icons. A 'Save' button is at the bottom.

Wi-Fi Bands

There are two different bandwidths of Wi-Fi; 2.4GHz and 5GHz. In a nutshell the 2.4GHz is a slower band but its range extends much further whereas the 5GHz is capable of higher speeds but will not reach as far. Please note that some older devices are unable to connect on the 5GHz band.

The Wi-Fi can also be disabled/enabled by pressing the top button on the left side of the router



Guest Wi-Fi Settings

WiFi

WiFi Name: Zyxel_5985_guest1

WiFi Password: *****

medium

Random Password

Hide WiFi network name ⓘ

Save

The settings within the guest Wi-Fi tab are essentially the same as the ordinary Wi-Fi

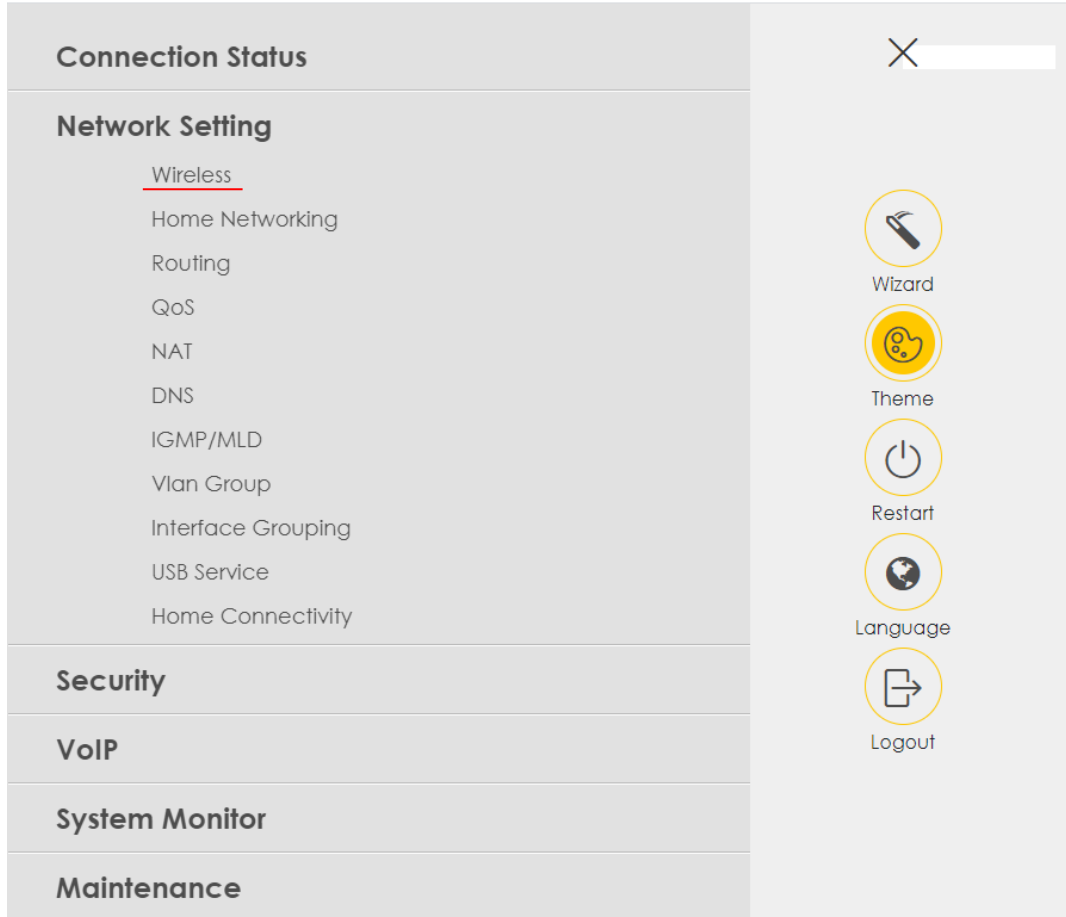
Having guest Wi-Fi enabled creates a separate Wi-Fi for your guests to connect to, this is secure as devices connected on your guest Wi-Fi won't be able to see devices connected to your primary Wi-Fi and you can give out a separate password to your guests. For example, if you have a printer connected to your Wi-Fi then a device connected on the guest Wi-Fi will be unable to connect to it and print.

If you have any difficulties finding or editing the settings you want then please contact the helpdesk on 01524 238499 or helpdesk@b4rn.org.uk

Advanced Settings

Wireless

To access some more advanced settings of changing the wireless connectivity click on the menu icon in the top right of the interface to bring up the side menu then navigate to Network Setting and Wireless



In here we can see some more advanced settings that some users may want to change, the primary thing to note is the Wi-Fi Channel can be changed in here.

ZYXEL | VMG8825-B50B

Wireless

General | Guest/More AP | MAC Authentication | WPS | WMM | Others | Channel Status | MESH | WLAN Scheduler

A Wireless network name (also known as SSID) and a security level are basic elements to start a wireless service. It is recommended to set a security level other than no security to protect your data from unauthorized access or damage via wireless network.

Wireless

Wireless Keep the same settings for 2.4G and 5G wireless networks

Wireless Network Setup

Band: 2.4GHz
Wireless:
Channel: Auto (Current: 2 / 20 MHz)
Bandwidth: 20MHz
Control Sideband: None

Wireless Network Settings

Wireless Network Name: Zyxel_5985
Max Clients: 32
 Hide SSID ⓘ
 Multicast Forwarding
Max. Upstream Bandwidth: _____ Kbps
Max. Downstream Bandwidth: _____ Kbps

Note

- (1) Max. Upstream Bandwidth: This field allows you to configure the maximum bandwidth of this SSID to WAN.
- (2) Max. Downstream Bandwidth: This field allows you to configure the maximum bandwidth of WAN to this SSID.
- (3) If Max. Upstream/Downstream Bandwidth is empty, the device sets the value automatically.
- (4) Using Max. Upstream/Downstream Bandwidth will significantly decrease the wireless performance.

BSSID: 5C:E2:8C:9F:59:85

Security Level

No Security More Secure (Recommended)

Earlier on in the guide you may have noticed the 5GHz band of Wi-Fi was on Channel 100, this is quite a high channel that some devices have trouble connecting to and may cause issues in connectivity. To fix this select the dropdown menu next to “Band” and select 5GHz, then underneath select the “Channel” dropdown and choose a more suitable channel.

ZYXEL | VMG8825-B50B

Wireless

General | Guest/More AP | MAC Authentication | WPS | WMM | Others | Channel Status | MESH | WLAN Scheduler

A Wireless network name (also known as SSID) and a security level are basic elements to start a wireless service. It is recommended to set a security level other than no security to protect your data from unauthorized access or damage via wireless network.

Wireless

Wireless Keep the same settings for 2.4G and 5G wireless networks

Wireless Network Setup

Band: 5GHz
Wireless:
Channel: Auto (Current: 100 / 80 MHz)
Bandwidth:
Control Sideband:
Wireless Network Settings

Wireless Network Name:
Max Clients: 104
 Hide SSID
 Multicast Forwarding
Max. Upstream Bandwidth:
Max. Downstream Bandwidth:
Note:
(1) Max. Upstream Bandwidth: This field allows you to configure the maximum bandwidth of this SSID to WAN.
(2) Max. Downstream Bandwidth: This field allows you to configure the maximum bandwidth of WAN to this SSID.
(3) If Max. Upstream/Downstream Bandwidth is empty, the device sets the value automatically.
(4) Using Max. Upstream/Downstream Bandwidth will significantly decrease the wireless performance.
BSSID: 5C:E2:8C:9F:59:86
Security Level: No Security (More Secure Recommended)

Generally, when talking 5GHz we want to select one of the following Channels: 36, 40, 44 or 48. After you have selected a channel, make sure you scroll down to the bottom of the page and click “Apply”

Channel Status

When selecting a Wi-Fi channel you don't really want to be occupying the same channel that another device is using.

Within the advanced settings we can also perform a Wi-Fi channel scan to view which channels are being used by neighbouring devices. Along the tabs at the top find the "Channel Status" tab and click on it.

The screenshot shows the ZyXEL VMG8825-B50B wireless settings interface. At the top, the 'ZYXEL' logo and model number 'VMG8825-B50B' are visible. The main heading is 'Wireless'. Below this, there are several tabs: 'General', 'Guest/More AP', 'MAC Authentication', 'WPS', 'WMM', 'Others', 'Channel Status' (which is circled in red), 'MESH', and 'WLAN Scheduler'. A warning box states: 'A Wireless network name (also known as SSID) and a security level are basic elements to start a wireless service. It is recommended to set a security level other than no security to protect your data from unauthorized access or damage via wireless network.'

The 'Wireless' section includes a checkbox for 'Keep the same settings for 2.4G and 5G wireless networks' which is checked. The 'Wireless Network Setup' section contains the following settings:

- Band: 5GHz
- Wireless:
- Channel: Auto (Current: 100 / 80 MHz)
- Bandwidth: 20/40/80MHz
- Control Sideband: None

The 'Wireless Network Settings' section includes:

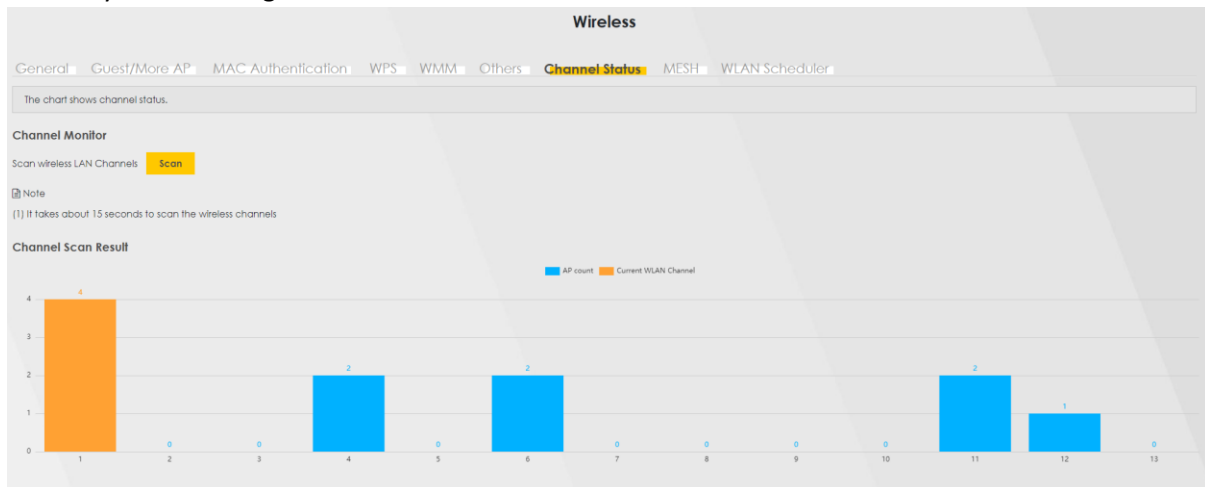
- Wireless Network Name: Zyxel_5985
- Max Clients: 32
- Hide SSID: (with an information icon)
- Multicast Forwarding:
- Max. Upstream Bandwidth: [Empty field] Kbps
- Max. Downstream Bandwidth: [Empty field] Kbps

A 'Note' section provides the following information:

- (1) Max. Upstream Bandwidth: This field allows you to configure the maximum bandwidth of this SSID to WAN.
- (2) Max. Downstream Bandwidth: This field allows you to configure the maximum bandwidth of WAN to this SSID.
- (3) If Max. Upstream/Downstream Bandwidth is empty, the device sets the value automatically.
- (4) Using Max. Upstream/Downstream Bandwidth will significantly decrease the wireless performance.

The BSSID is listed as 5C:E2:8C:9F:59:86. At the bottom, the 'Security Level' section shows a progress bar from 'No Security' to 'More Secure (Recommended)', with the current level positioned towards the 'More Secure' end.

Click the “Scan” button and it will display a graph showing which channels nearby devices are currently broadcasting on.



Note that for the 2.4GHz band there are 13 channels available but 1,6 and 11 are the only ones that don't overlap with each other, so these are the desirable channels. For the 2.4GHz it is best off leaving it on auto.

To do a scan for the 5GHz band go back to the General page and make sure the 5GHz band is selected in the dropdown.



For the 5GHz try and find a channel that isn't being used by neighbouring devices, in this case channel 44 would be the best to use.

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