

Router Set-up Guide - ZYXEL VMG1312 for FTTC Connections



ZYXEL VMG1312-B10D
Router Setup for FTTC Connections



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Router Logon

1. Open a web browser on your PC or laptop and enter the following address: <http://192.168.1.1>

This will bring up the login screen for the router as seen below:

Note- it is recommended to connect DSL cable to DSL port behind the router first before starting the configuration of the router.

Login

User Name

Password

**Login**

1. Enter the login credentials as follows:

Username: admin

Password: default (1234)

Note-If the router has retained its original configuration as shipped by Cerberus Networks, the password would have been changed. The latest password can be found in your Cerberus documentation.

1. If the router was in a factory default state, it will now prompt you to change the password. Please choose a new password and save it for your records.

Password Reset

New Password



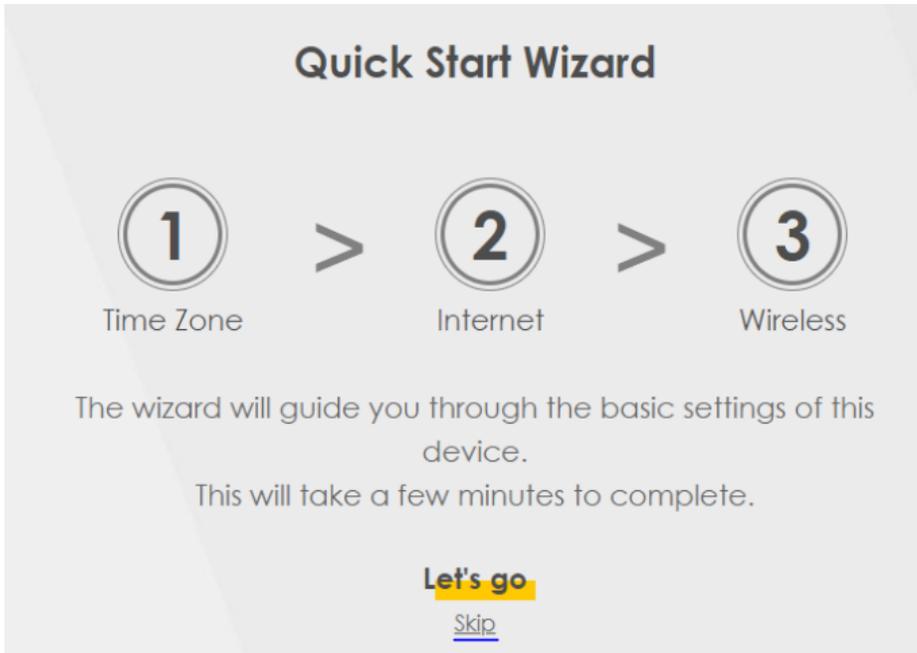
Password



The password must contain at least one numeric character and one alphanumeric character.

Change password[Skip](#)

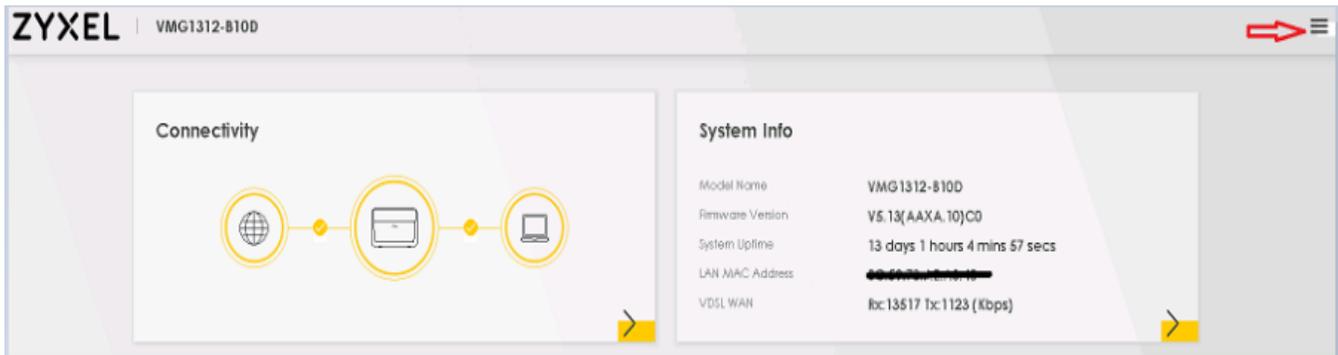
1. After navigating the password stage, the router will launch a Quick Start Wizard:



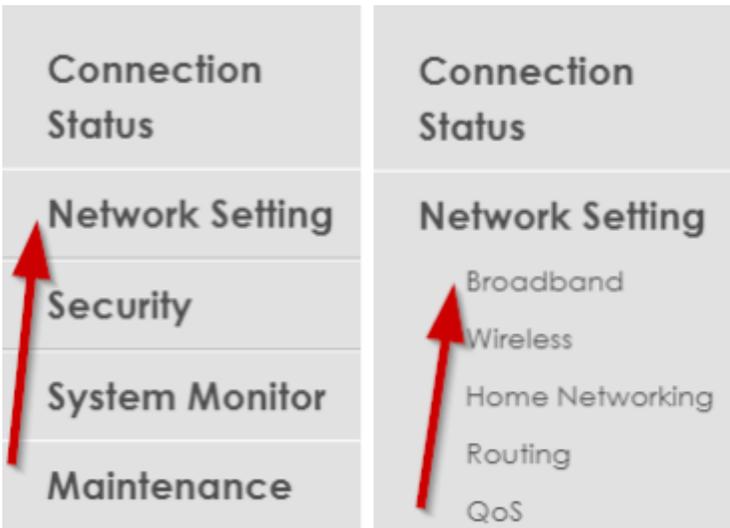
Please click on the **'Skip'** option at the bottom of the screen. Closing the Wizard will bring up the main dashboard of the router as seen in the next section – Configure Connection.

Configure Connection

1. On the main dashboard of the router, click on the menu button at the top-right corner of the screen in order to display more options:



1. Click on **Network Settings** 3) Select **Broadband**



4) Click on the edit option for VDSL at the end of row 2 (marked in Red):

ZYXEL | VMG1312-B10D

Broadband

Broadband Cellular Backup Advanced Ethernet WAN

You can configure the Internet settings of this device. Correct configurations build successful Internet connection.

+ Add New WAN Interface

#	Name	Type	Mode	Encapsulation	802.1p	802.1q	IGMP Proxy	NAT	Default Gateway	IPv6	MLD Proxy	Modify
1	ADSL	ATM	Routing	IPoE	N/A	N/A	Y	Y	Y	Y	Y	
2	VDSL	PTM	Routing	PPPoE	0	101	Y	Y	Y	N	N	
3	ETHWAN	ETH	Routing	IPoE	N/A	N/A	Y	Y	Y	Y	Y	

1. Make the following changes under General:

- Set Mode to **Routing**.
- Set Encapsulation to **PPPoE**.
- Change IPv4/IPv6 Mode to **IPv4 only**.

General ☑

Name:

Type:

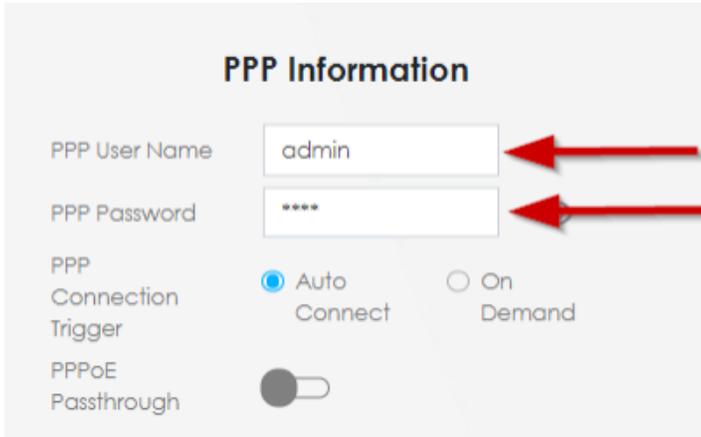
Mode:

Encapsulation:

IPv4/IPv6 Mode:

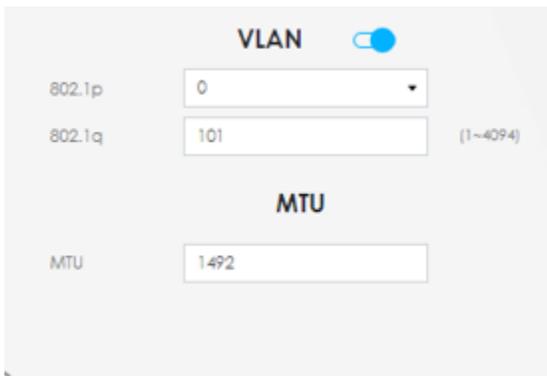
1. Make the following changes under PPP Information:

- Enter the PPP Username. This can be found in your Cerberus documentation.
- Enter the PPP password. This is also in your Cerberus documentation.



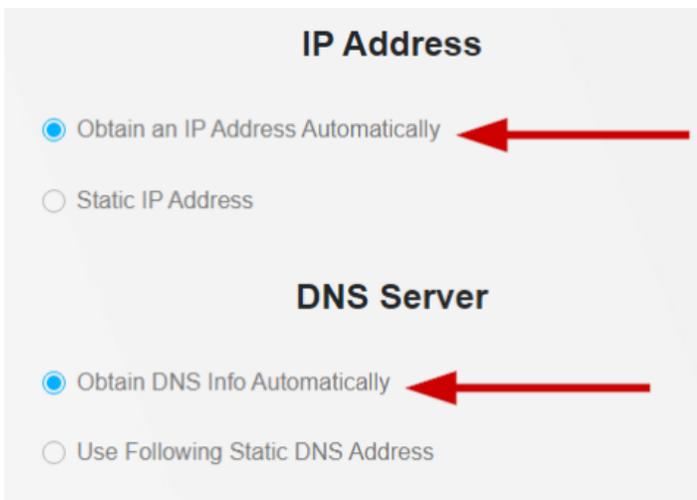
The screenshot shows the 'PPP Information' configuration page. It includes fields for 'PPP User Name' (set to 'admin') and 'PPP Password' (masked with '****'). Below these are radio buttons for 'Auto Connect' (selected) and 'On Demand', and a 'PPPoE Passthrough' toggle switch.

1. Make sure to change VLAN option to 101 & Change the MTU to 1492 as per below snapshot.



The screenshot shows the 'VLAN' and 'MTU' configuration page. The 'VLAN' section has a dropdown for '802.1p' (set to '0') and a text input for '802.1q' (set to '101'). The 'MTU' section has a text input for 'MTU' (set to '1492').

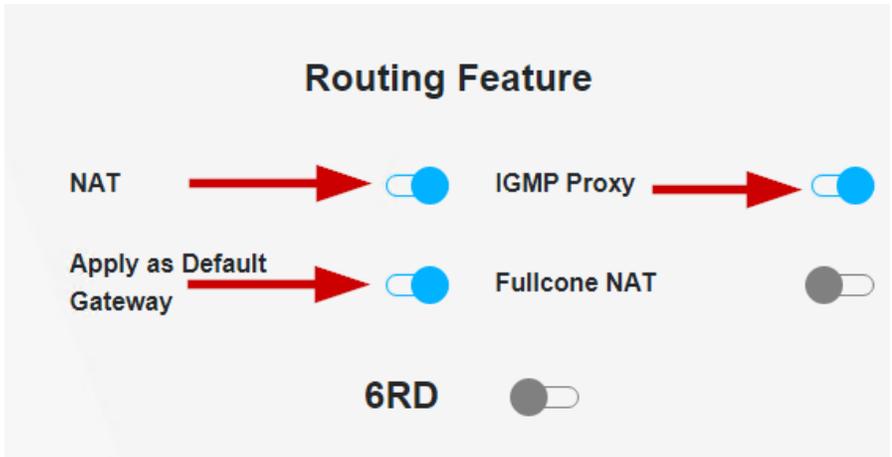
1. Ensure IP Address and DNS Server options are set to automatic:



The screenshot shows the 'IP Address' and 'DNS Server' configuration page. Under 'IP Address', the 'Obtain an IP Address Automatically' radio button is selected. Under 'DNS Server', the 'Obtain DNS Info Automatically' radio button is selected.

1. Ensure the following Routing Features are enabled:

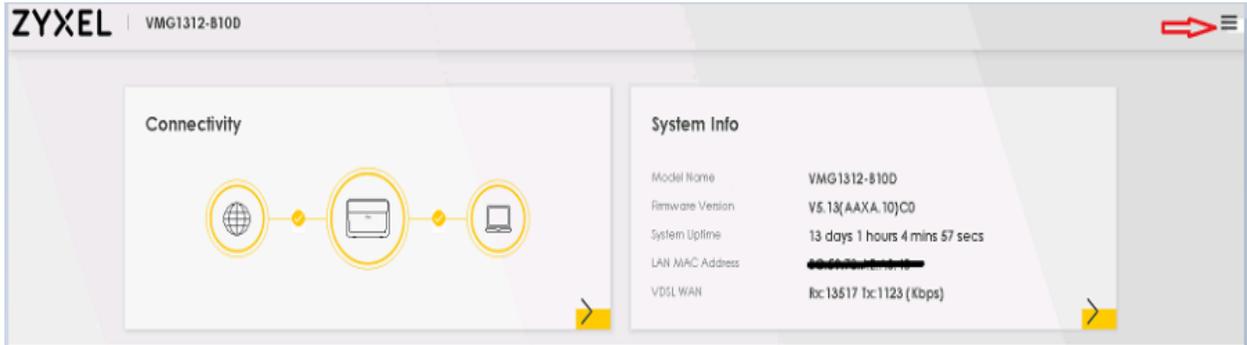
- NAT
- IGMP Proxy
- Apply as Default Gateway



1. Click on 'Apply' at the bottom of the screen to save your settings. **Your internet connection should now be online.**

LAN/DHCP Setup

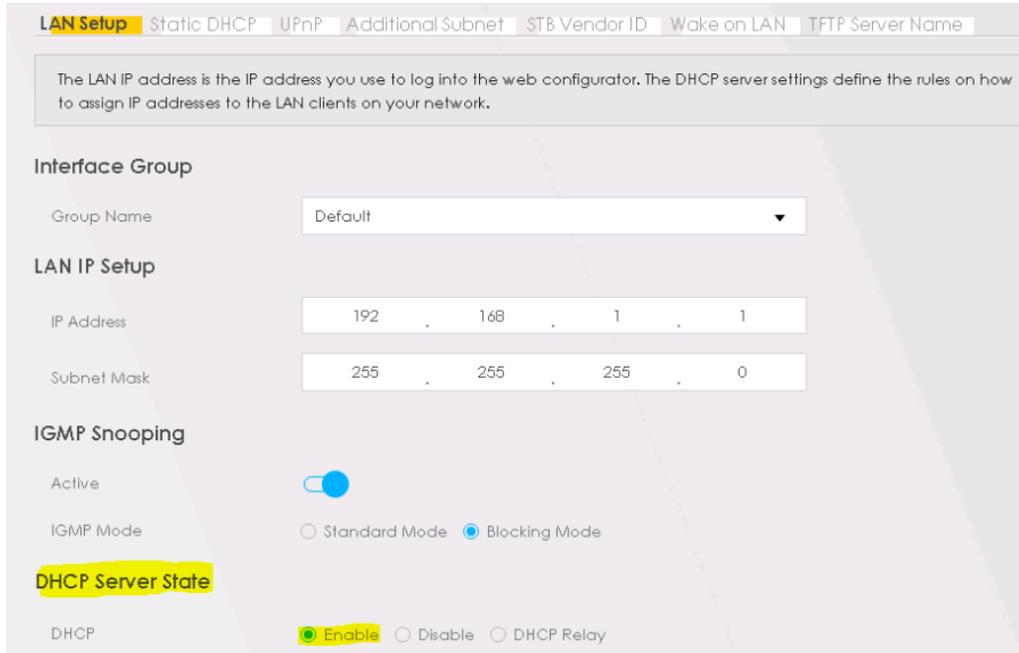
1. On the main dashboard of the router, click on the menu button at the top-right corner of the screen in order to display more options:



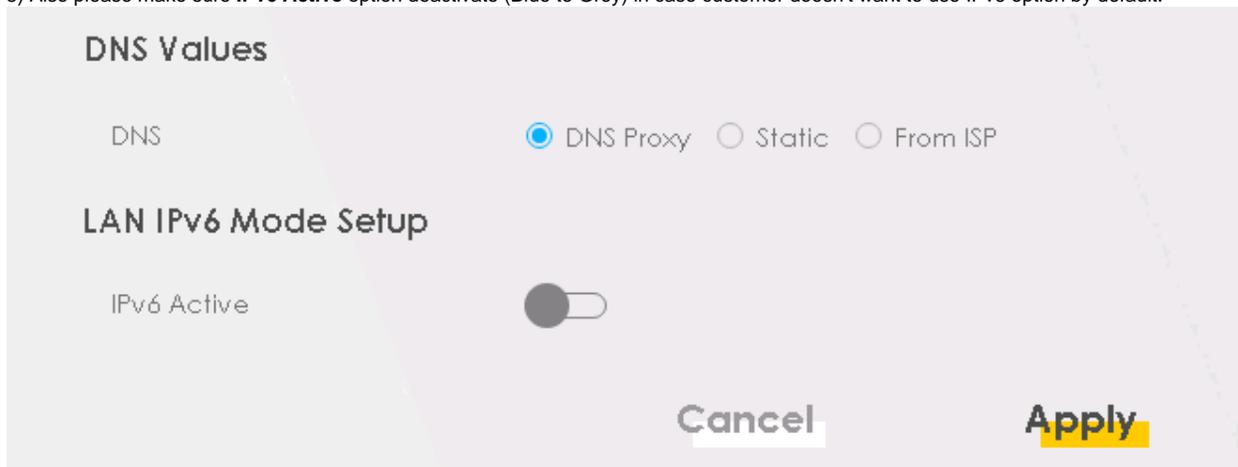
1. Select **Network Settings** 3) Click **Home Networking**



4) DHCP Server state is ticked as Enabled by default as mentioned in below snapshot. Customer can disable it if they don't wish to use Router as a DHCP Server.



5) Also please make sure **IPv6 Active** option deactivate (Blue to Grey) in case customer doesn't want to use IPv6 option by default.



Click on **Apply** to save changes.

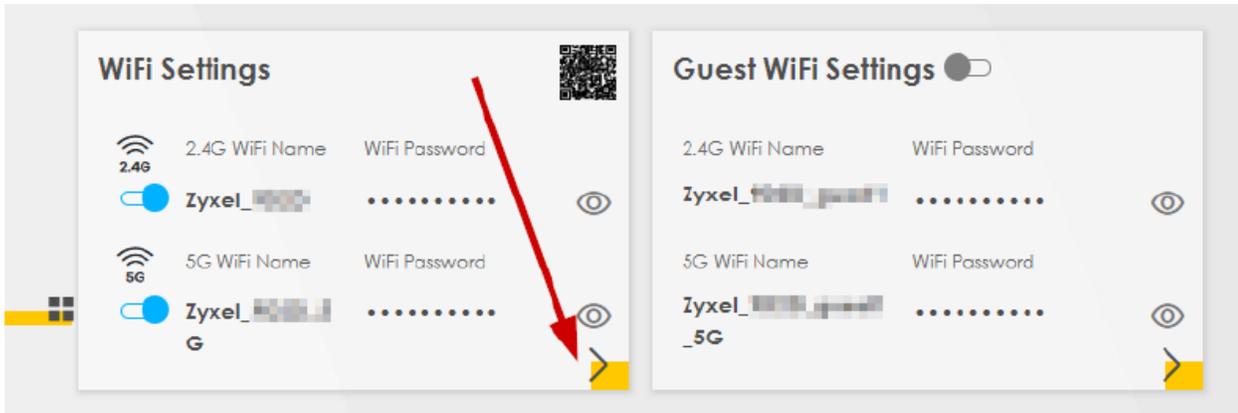
Please proceed to the next page and beyond for guidance on Wi-Fi, firmware upgrades, remote management and SNMP.

Wi-Fi

The Zyxel VMG3925 router comes with two pre-configured Wi-Fi networks. The names (or SSIDs) of the two networks and their passwords can be found on the manufacturer's label on the rear panel of the router.

Please note that the 2.4G option can offer better Wi-Fi coverage at greater distances, although it may see lower speeds in comparison to the 5G option. If you wish to change the **names** or passwords of the Wi-Fi networks, the basic settings are available through the following steps:

1. Click on the Wi-Fi menu button on the main dashboard:



1. Change the Wi-Fi network name and password as per your preferences:



Click on **'Save'** to apply your settings.

[Firmware Upgrade](#)

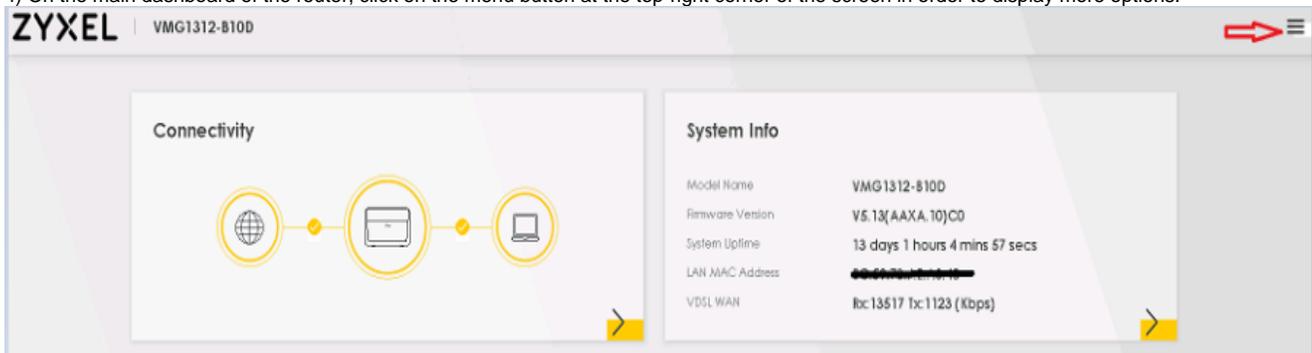
1. Visit the following URL for the latest firmware:

<ftp://ftp.zyxel.com/VMG1312-B10D/firmware/>

2) Download the latest zip file, for e.g. VMG1312-B10D_V513AAXA10C0.zip.

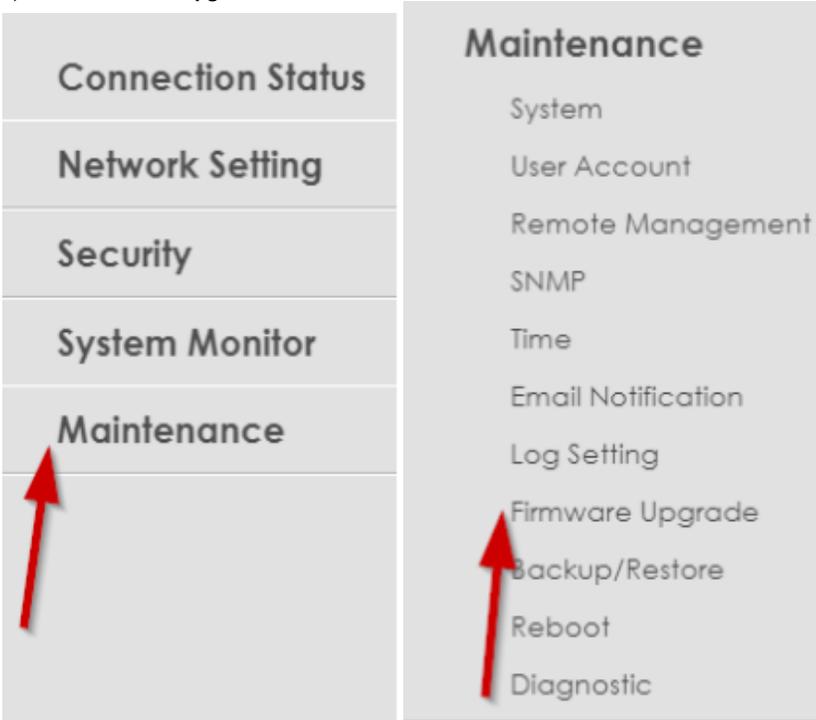
3) Open the zip file and extract the folder within it to a location on your PC or laptop.

4) On the main dashboard of the router, click on the menu button at the top-right corner of the screen in order to display more options:

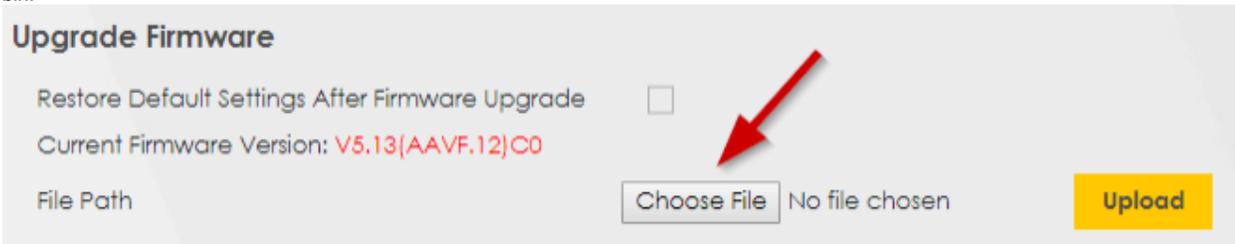


5) Click on **Maintenance**:

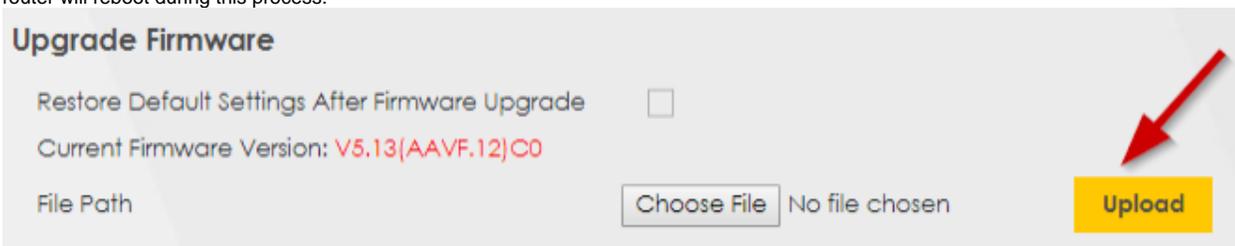
6) Select **Firmware Upgrade**



7) Click on Choose File and then navigate to the location of your saved folder as seen in Step 3. Select the file ending .bin, for example, V513AAXA10C0.bin:



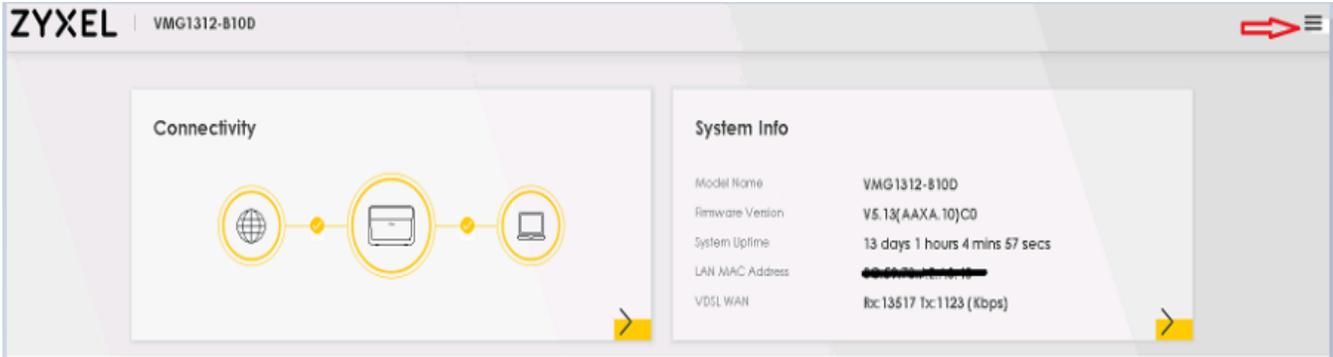
8) Once you have selected the firmware file, click on **Upload** to begin the upgrade. Please note this process will take 2-3 minutes to complete and the router will reboot during this process:



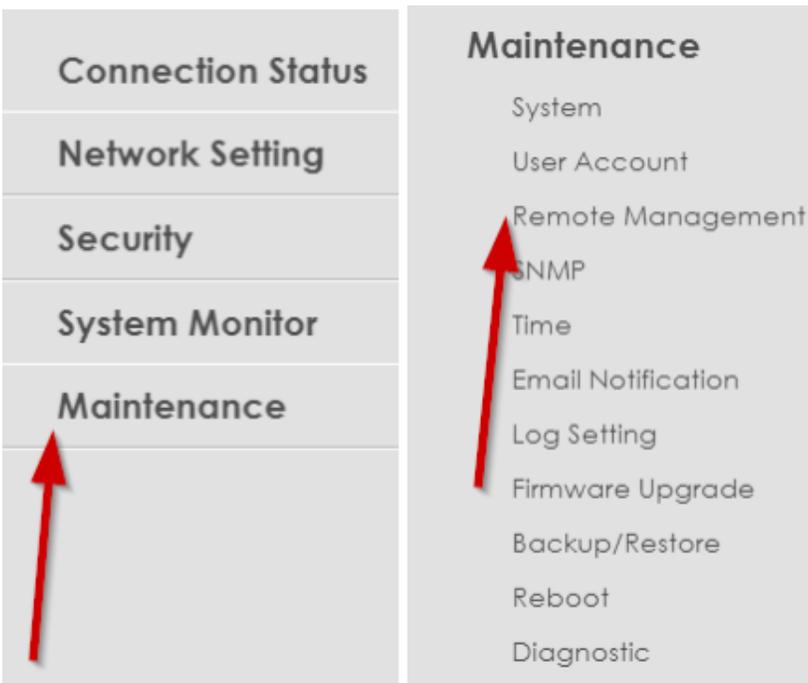
Remote Management

Remote management is an optional feature should you wish to access your router remotely across the internet or provide such access to Cerberus Networks for troubleshooting purposes or NetStats bandwidth monitoring.

1. On the main dashboard of the router, click on the menu button at the top-right corner of the screen in order to display more options:



1. Click on **Maintenance**: 3) Select **Remote Management**:



4) In the remote management table, all options under WAN are unticked by default. Please tick the following options:

- HTTPS
- PING (this is required if you want Cerberus to allow ping of router WAN IP over the Internet)
- SSH
- SNMP (this is only required if you wish to enable SNMP for bandwidth monitoring, as shown in the next section)

Remote Management

MGMT Services Trust Domain

Remote MGMT enables various approaches to access this device remotely from a WAN and/or LAN connection.

Service Control

WAN Interface used for services Any_WAN Multi_WAN

WWAN ADSL VDSL ETHWAN

Service	LAN/WLAN	WAN	Trust Domain	Port
HTTP	<input checked="" type="checkbox"/> Enable	<input checked="" type="checkbox"/> Enable	<input type="checkbox"/> Enable	80
HTTPS	<input checked="" type="checkbox"/> Enable	<input checked="" type="checkbox"/> Enable	<input type="checkbox"/> Enable	443
FTP	<input checked="" type="checkbox"/> Enable	<input type="checkbox"/> Enable	<input type="checkbox"/> Enable	21
TELNET	<input checked="" type="checkbox"/> Enable	<input type="checkbox"/> Enable	<input type="checkbox"/> Enable	23
SSH	<input checked="" type="checkbox"/> Enable	<input checked="" type="checkbox"/> Enable	<input type="checkbox"/> Enable	22
SNMP	<input checked="" type="checkbox"/> Enable	<input checked="" type="checkbox"/> Enable	<input type="checkbox"/> Enable	161
PING	<input checked="" type="checkbox"/> Enable	<input type="checkbox"/> Enable	<input type="checkbox"/> Enable	

5) Click on 'Apply' to save your changes.

SNMP

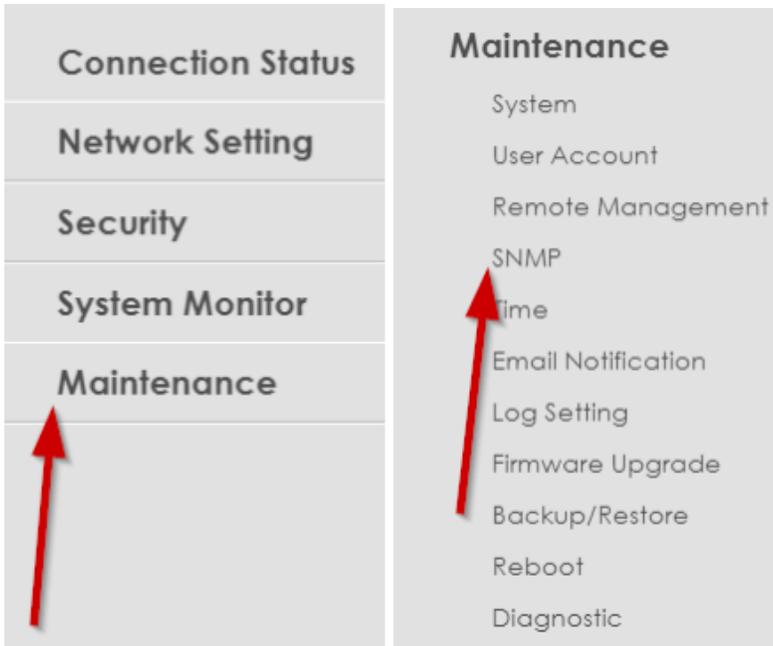
SNMP is an optional feature used to facilitate bandwidth monitoring of your internet connection.

Prior to enabling SNMP, please ensure the SNMP option has been selected as shown in the previous section (Remote Management). Once this has been verified, please proceed with the following steps:

1. Click on the menu icon on the top-right corner of the router dashboard.

The image shows the ZyXEL VMG1312-B10D router dashboard. At the top left, the ZyXEL logo and model number are displayed. On the top right, there is a red arrow pointing to a menu icon. The main content area is divided into two panels: 'Connectivity' on the left and 'System Info' on the right. The 'Connectivity' panel shows a diagram of a network connection between a globe, a laptop, and a server. The 'System Info' panel displays the following details: Model Name (VMG1312-B10D), Firmware Version (V5.13(AAXA, 10)C0), System Uptime (13 days 1 hours 4 mins 57 secs), LAN MAC Address (redacted), and VDSL WAN (Rx: 13517 Tx: 1123 (Kbps)).

1. Click on **Maintenance**: 3) Select **SNMP**:



1. Perform the following steps under the main SNMP window:

- Click on the SNMP Agent sliding button. The button should change from grey to blue to activate SNMP.
- **'Get Community'** effectively works as a **password**. Please choose a random string of characters.
- **'Set Community'** will not be used, but for security purposes a random password is recommended.

A screenshot of the 'SNMP' configuration window. At the top, it says 'SNMP'. Below that is a descriptive paragraph: 'The device supports SNMP and can be managed and monitored on a computer network, by a Network Management System (NMS). The settings below, displays the access information about how this device device information via SNMP to the NMS.' Below the text are several configuration fields: 'SNMP Agent' with a blue toggle switch, 'Get Community' with a text input field containing a blacked-out password, 'Set Community' with a text input field containing a blacked-out password, 'Trap Community' with a text input field containing 'public', 'System Name' with a text input field containing 'VMG1312-8100', 'System Location' with a text input field containing 'Taiwan', 'System Contact' with an empty text input field, and 'Trap Destination' with an empty text input field. At the bottom are 'Cancel' and 'Apply' buttons. The 'Apply' button is highlighted in yellow.

Click on **'Apply'** to save your changes.

[Support Contact Details](#)

For further advice or assistance regarding any of the points in this guide or your service in general, please contact our 24/7 support team at:

Email: support@cerberusnetworks.co.uk

Live chat: <https://www.cerberusnetworks.co.uk/>

Please select the 'Get in touch' option at the top-right corner of the main webpage

Phone: 0345 257 1335