

LED Description	3
Prepare	4
Mounting Accessories	4
Connect to the PC	5
Login to the router	7
Dashboard	8
System	10
System	10
General settings	10
Time Synchronization	11
Language and Style	12
System Log	12
Kernel Log	13
Administration	14
Router Password	14
SSH Access	14
SSH-Keys	15
Realtime Graphs	16
Traffic	17
Connections	17
ACL Settings	18
Backup / Flash Firmware	19
Flash operations	19
Configuration	20
Reboot	20
Service	21
Remote Manager	21
uHTTPd	22
General Settings	22
Self-singed Certificate	23
Dynamic DNS	24
Global Settings	25
UPnP	26
Actives UPnP	26
Settings	28
Advanced Settings	28
ACL	29
Watchcat	30
SNMPD	31
ser2 net	31
Proxies	32
Network Shares	33
General Settings	33
Edit Template	34
WiFi Function	35
Overview	35
2.4G WiFi overview	35
General Control	36
Guest Network	37
Bridge	38
Access Control	38
Radius Settings	39
Advanced Settings	40
Network Functions	41
Interfaces	41
Devices	43

DHCP and DNS	43
General Settings	44
TFTP Settings	45
Advanced Settings	45
Static Leases	46
Hostnames	47
Static Routes	48
Overview	48
Setting	49
SQM QoS	50
Diagnostics	51
Firewall	53
Status	53
General Settings	55
Port Forwards	56
Traffic Rules	57
NAT Rules	57
Custom Rules	58
Cellular	59
Information	59
Setting	59
SIM Settings	60
Lock Bands	61
Net Select	62
Load Balancing	62
Interfaces	63
Members	64
Policies	65
Rules	65
Diagnostics	66
VPN Functions	67
IPSec	67
Settings	68
Remote Configuration	68
Tunnel Configuration	69
Encryption Proposals	70
General Settings	71
OpenVPN	72
WireGuard	73
Local	73
Peer	74
FAQ	76
APN/VPDN Dedicated Network Card	76
WIFI Relay / Repeater	78
Port Mapping	83
Serial Passthrough	85

LED Description

LED Type	State	Description
PWR	Long bright	Normal power input
	No Light	Abnormal power input
SYS	Long bright	System exception
	No Light	System exception
	Blinking Light	System startup
2.4G	Long bright	WIFI On
	No Light	WIFI Off
	Blinking Light	Data In/Out
5.8G	Long bright	WIFI On
	No Light	WIFI Off
	Blinking Light	Data In/Out
SIM1	Long bright	SIM1 and cellular module 1 are normal
	No Light	SIM1 and cellular module 1 are abnormal
SIM2	Long bright	SIM2 and cellular module 2 are normal
	No Light	SIM2 and cellular module 2 are abnormal
SIM1 Signal	Long bright	Strong signal in 3 grids, moderate signal in 2 grids, weak signal in 1 grid
	No Light	No signal
SIM2 Signal	Long bright	Strong signal in 3 grids, moderate signal in 2 grids, weak signal in 1 grid
	No Light	No signal

Prepare

Mounting Accessories

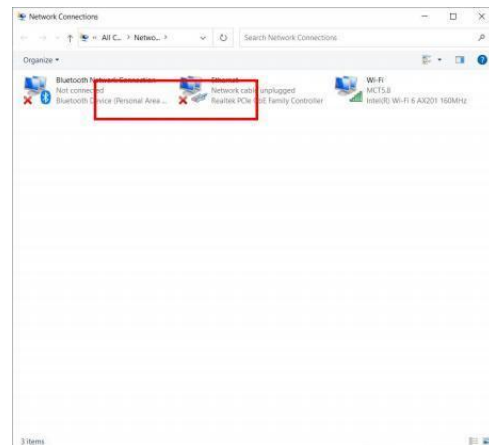
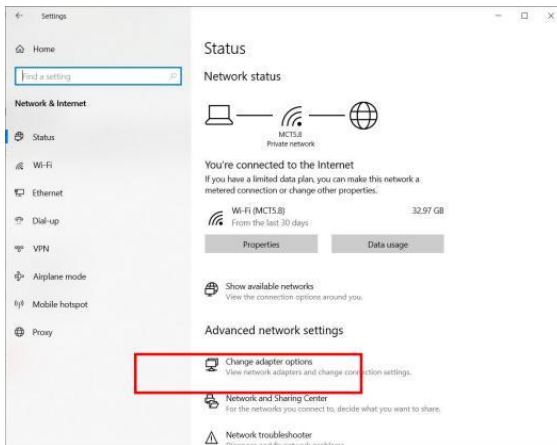
Insert the WiFi antenna, cellular network antenna, and SIM card according to the interface instructions, connect them to a 9-36V DC power supply, observe the indicator light SYS flashing, and the router starts normally.



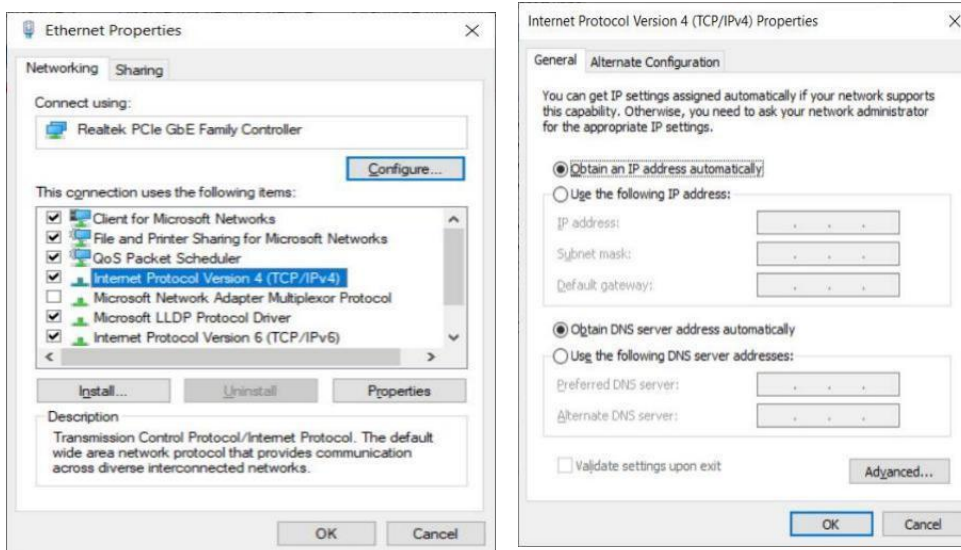
Note: Please do not remove or insert the SIM card with power on, otherwise the SIM card may be damaged.

Connect to the PC

Correctly set your computer network configuration, now take win10 operating system as an example, use it to open "Settings\Network & Internet\Change Adapter Options" in Control Panel. Double-click the "Ethernet" connection icon.



In the pop-up dialog box, click "Properties", select "Internet Protocol Version 4 (TCP/IPv4)", and then click the "Properties" button; select "Obtain an IP address automatically". After clicking OK to save, the computer will automatically obtain the IP address assigned by the router.



Your computer IP Address

The router IP Address

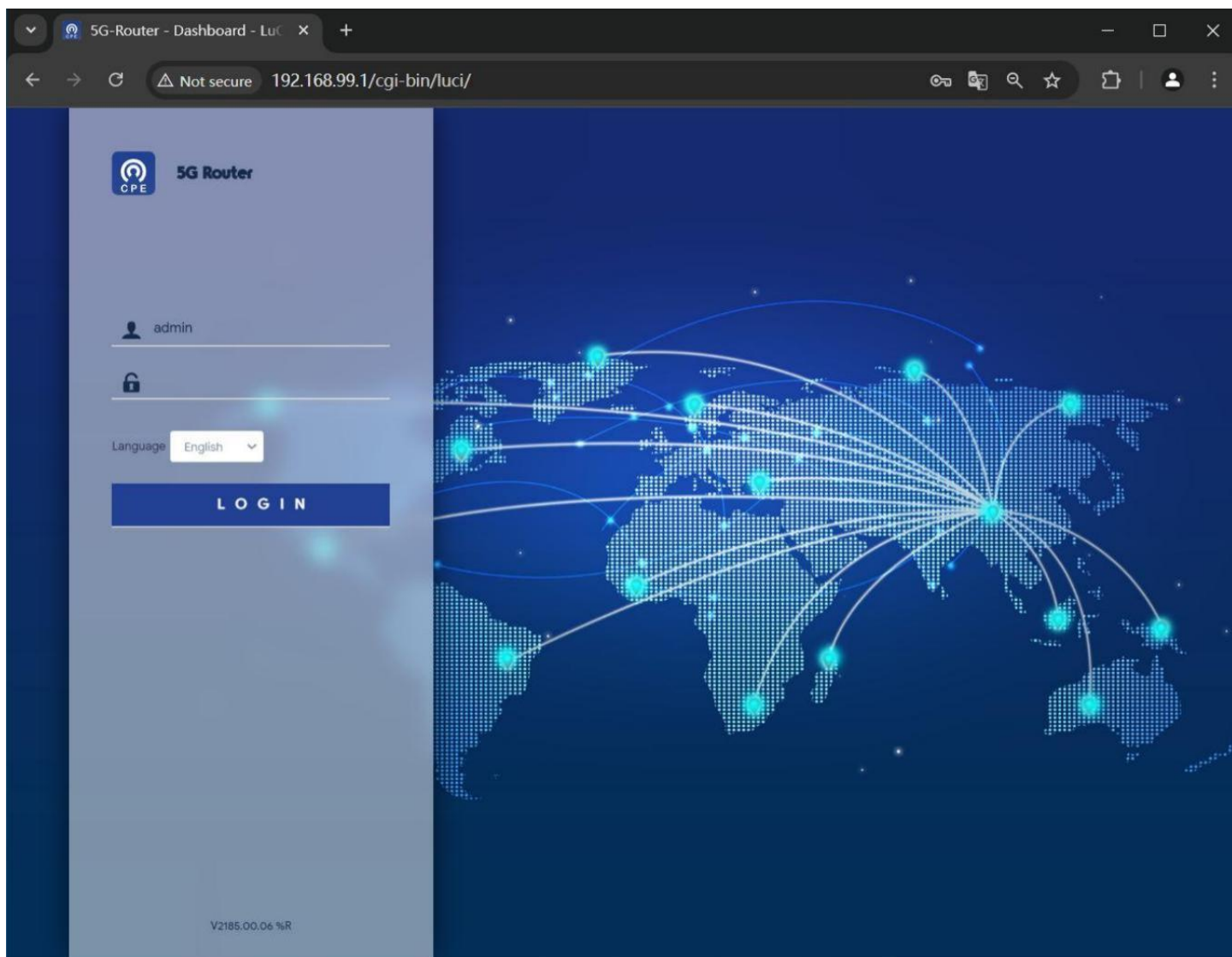
Login to the router

Open a web browser, key in `http://192.168.99.1` in the address bar and press Enter; Default

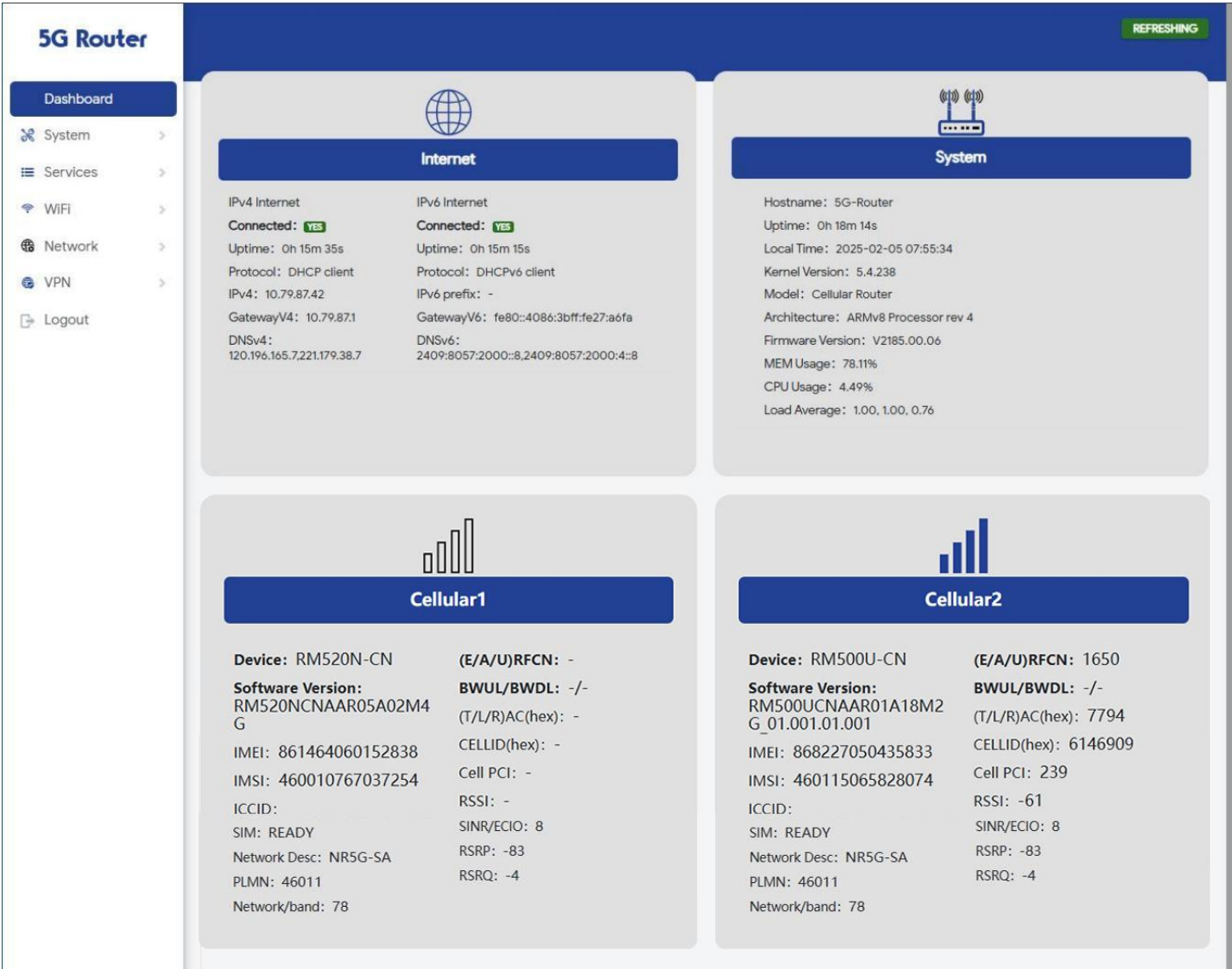
Username: admin

Default Password: admin

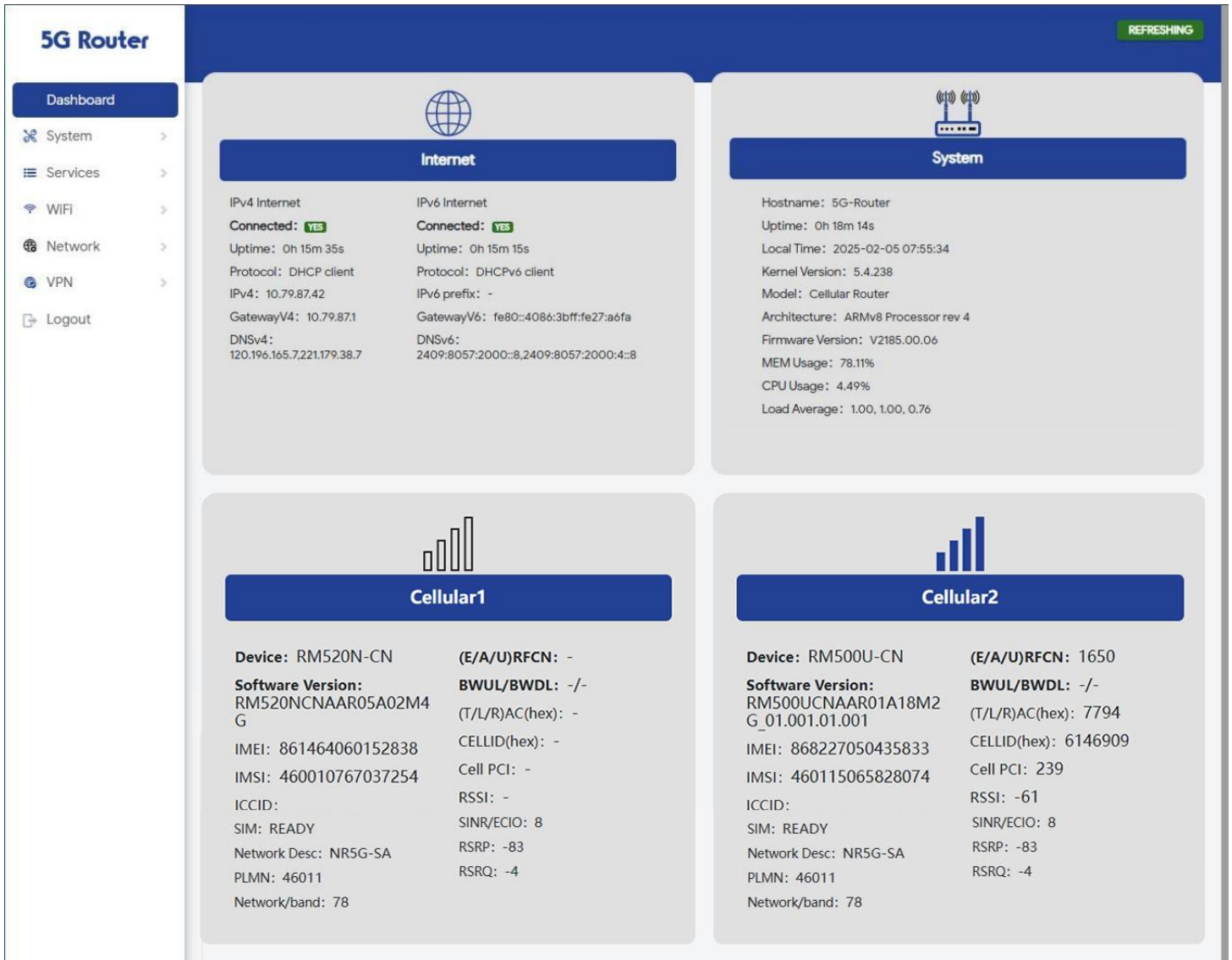
It is recommended to use Google Chrome or Mozilla Firefox browser.



Dashboard



On the Dashboard page, you can see basic information such as the firmware version number, cellular network information, and network connection status of the router.

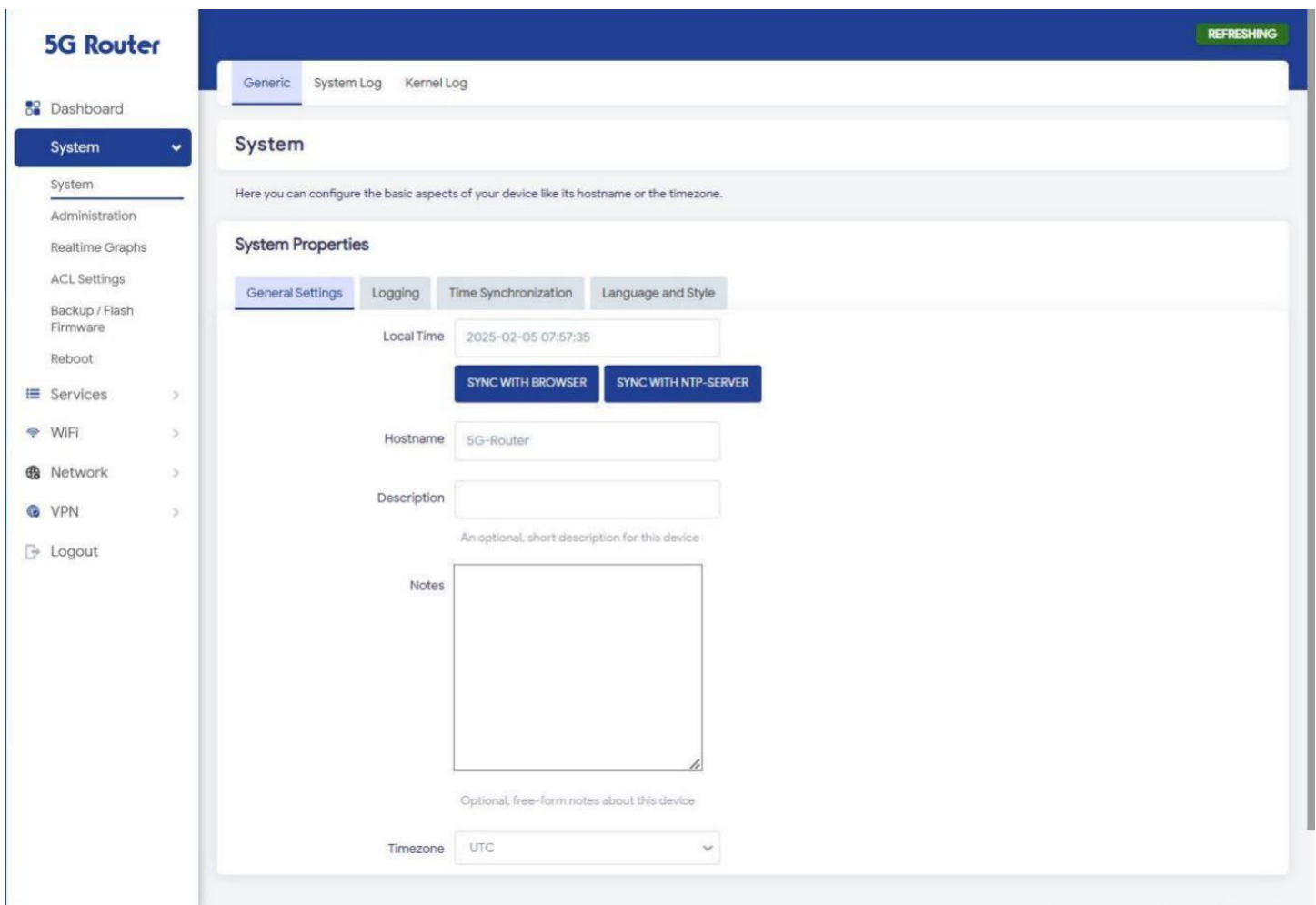


System

System

General settings

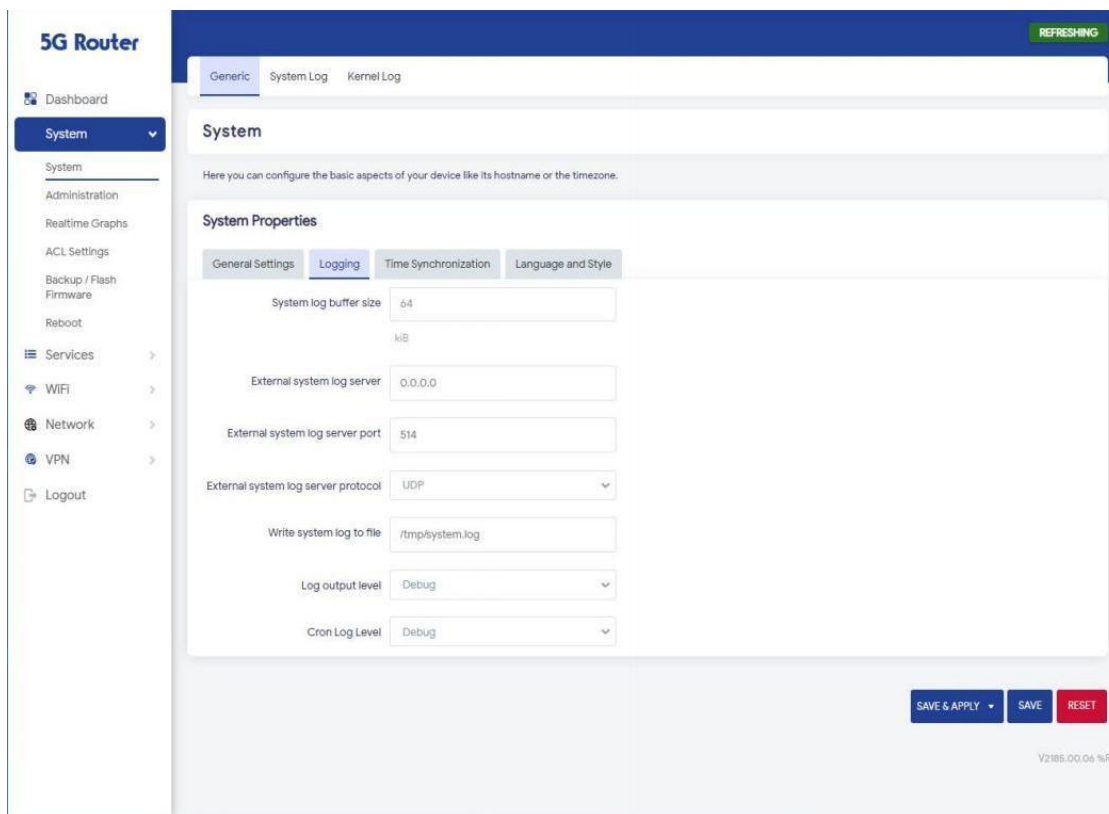
Here you can configure the basic aspects of your device like its hostname or the timezone.



The screenshot shows the '5G Router' web interface. On the left is a sidebar menu with options: Dashboard, System (selected), Administration, Realtime Graphs, ACL Settings, Backup / Flash Firmware, Reboot, Services, WIFI, Network, VPN, and Logout. The main content area is titled 'System' and has tabs for 'Generic', 'System Log', and 'Kernel Log'. Below the 'System' title is a description: 'Here you can configure the basic aspects of your device like its hostname or the timezone.' Under 'System Properties', there are four sub-tabs: 'General Settings' (selected), 'Logging', 'Time Synchronization', and 'Language and Style'. The 'General Settings' tab contains the following fields and controls:

- Local Time:** A text input field showing '2025-02-05 07:57:35'. Below it are two buttons: 'SYNC WITH BROWSER' and 'SYNC WITH NTP-SERVER'.
- Hostname:** A text input field containing '5G-Router'.
- Description:** A text input field.
- Notes:** A large text area for notes, with a placeholder text 'An optional, short description for this device' and a small icon in the bottom right corner.
- Timezone:** A dropdown menu currently set to 'UTC'.

Configure system log related information here.



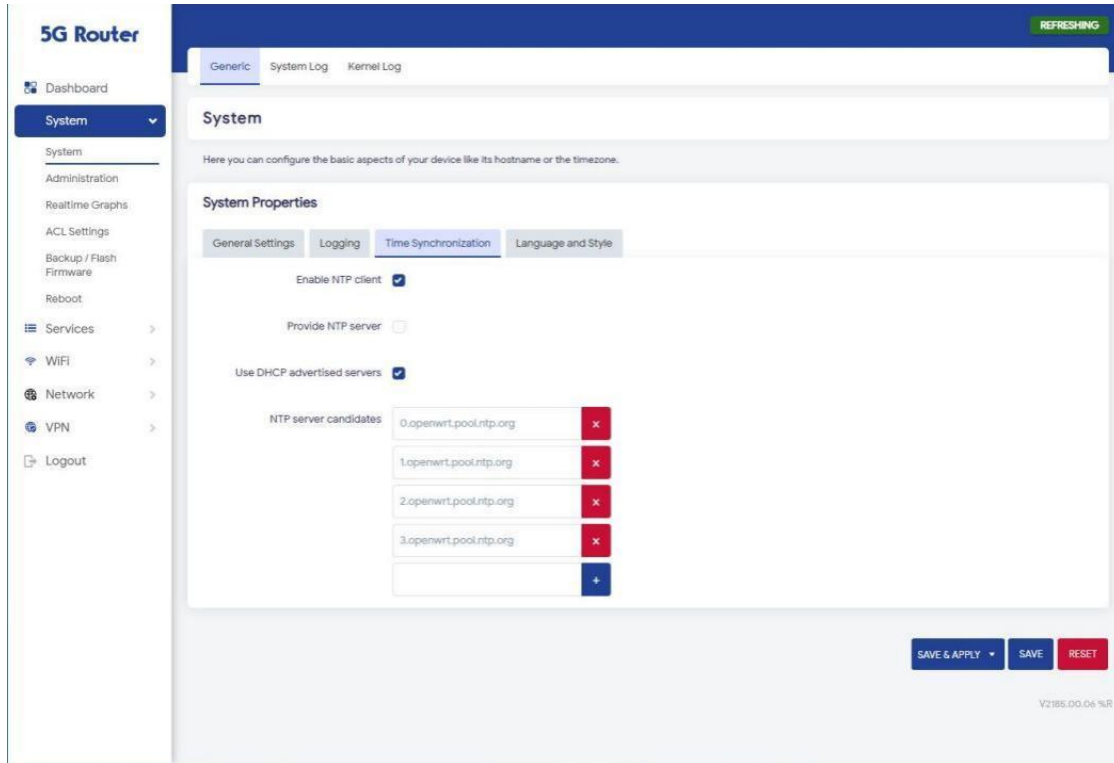
The screenshot displays the web management interface of a 5G Router. On the left is a sidebar menu with options: Dashboard, System (selected), Administration, Realtime Graphs, ACL Settings, Backup / Flash Firmware, Reboot, Services, WiFi, Network, VPN, and Logout. The main content area is titled '5G Router' and has a 'REFRESHING' button in the top right. Below the title are tabs for 'Generic', 'System Log', and 'Kernel Log'. The 'System Log' tab is active, showing a 'System' section with a description: 'Here you can configure the basic aspects of your device like its hostname or the timezone.' Below this is the 'System Properties' section, which has four sub-tabs: 'General Settings', 'Logging' (selected), 'Time Synchronization', and 'Language and Style'. The 'Logging' sub-tab contains the following configuration fields:

Field	Value
System log buffer size	64
	kiB
External system log server	0.0.0.0
External system log server port	514
External system log server protocol	UDP
Write system log to file	/tmp/system.log
Log output level	Debug
Cron Log Level	Debug

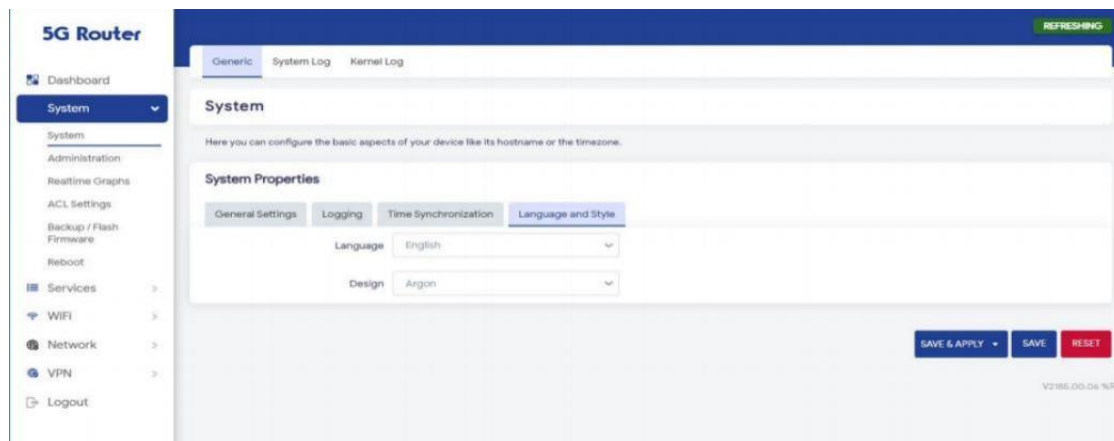
At the bottom right of the configuration area are three buttons: 'SAVE & APPLY', 'SAVE', and 'RESET'. The footer of the interface shows the version 'V2185.00.06 %R'.

Time Synchronization

Configure NTP time synchronization related information here.

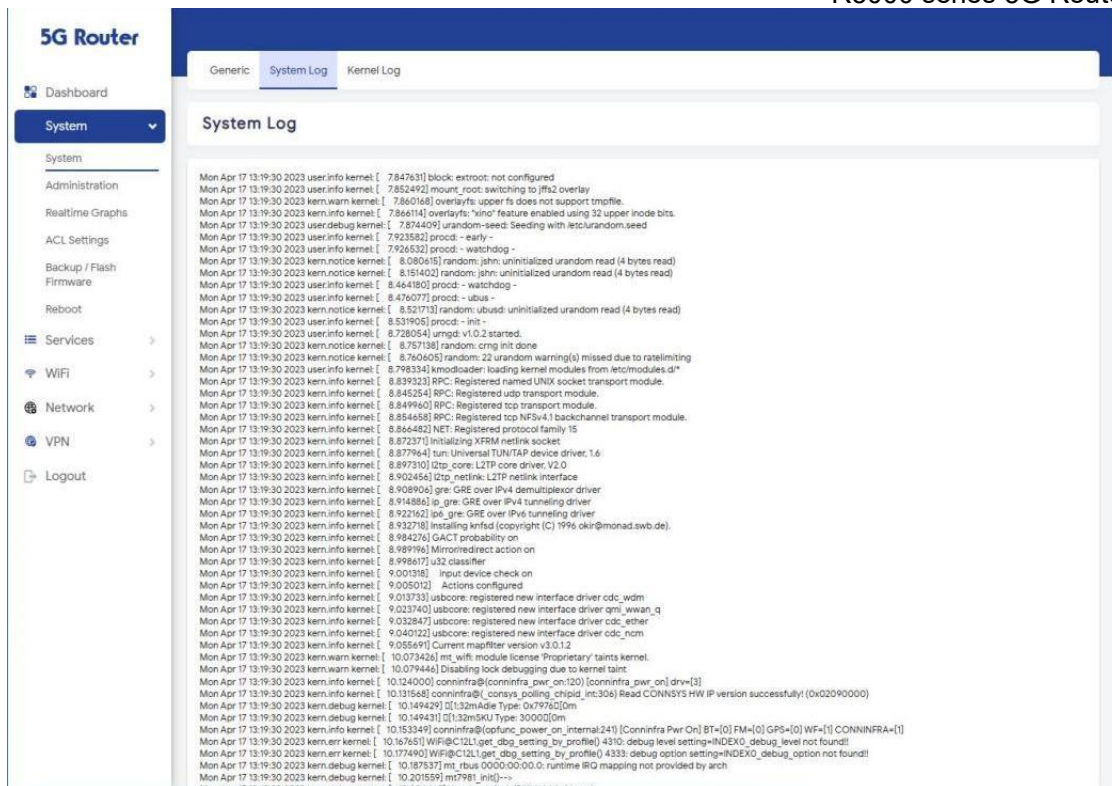


Language and Style



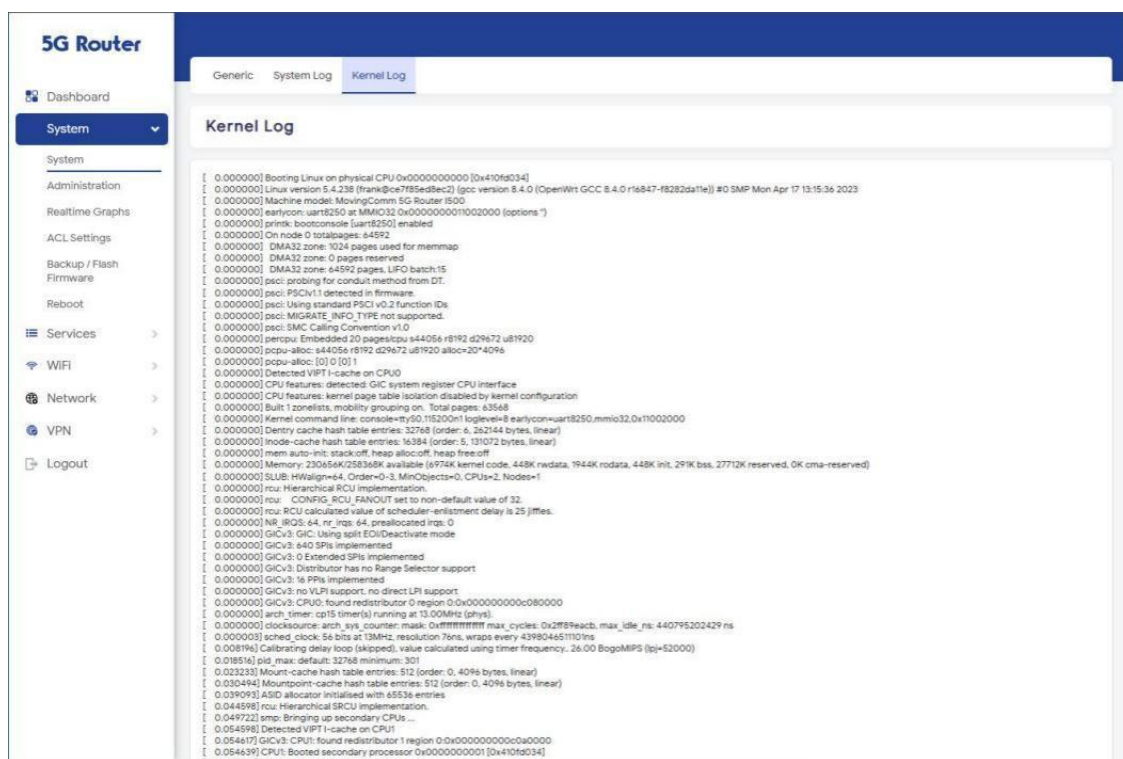
System Log

View the router's system log here.



Kernel Log

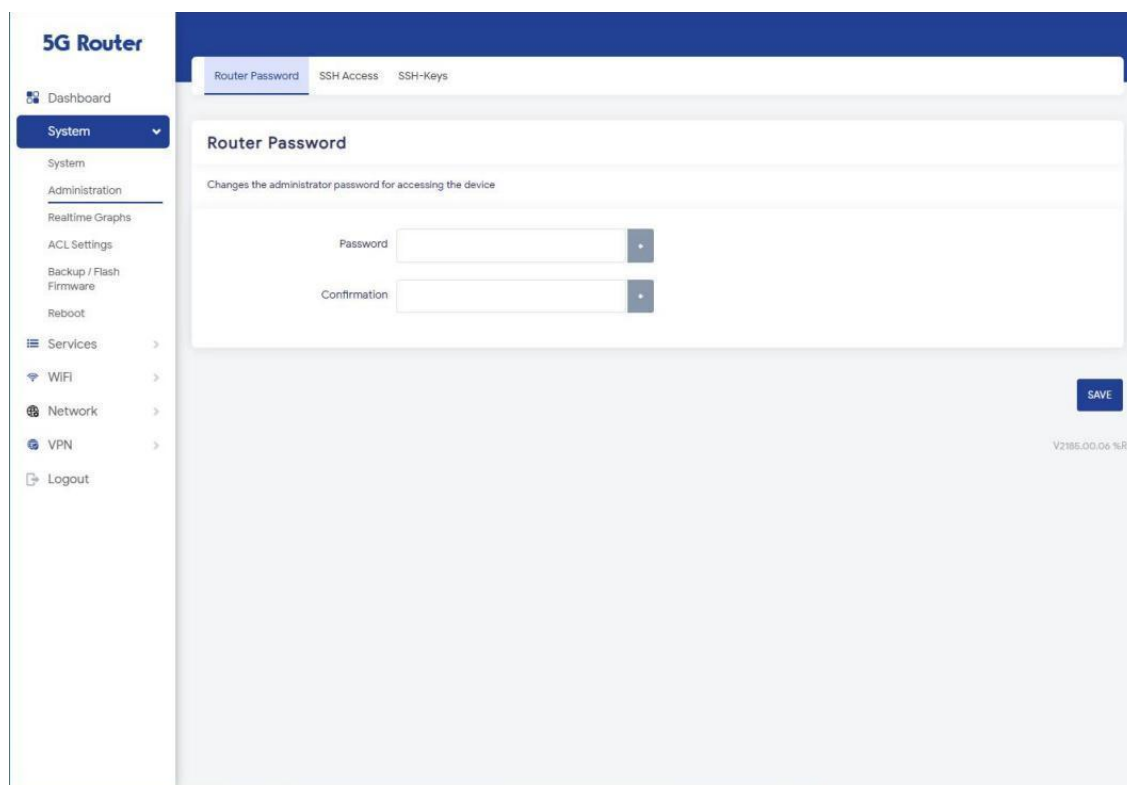
View the router's kernel log here.



Administration

Router Password

Change the administrator password for accessing the device.



The screenshot displays the '5G Router' web interface. On the left is a sidebar menu with options: Dashboard, System (selected), Administration, Realtime Graphs, ACL Settings, Backup / Flash Firmware, Reboot, Services, WiFi, Network, VPN, and Logout. The main content area has three tabs: Router Password (active), SSH Access, and SSH-Keys. The 'Router Password' tab shows a form titled 'Router Password' with the subtitle 'Changes the administrator password for accessing the device'. The form contains two input fields: 'Password' and 'Confirmation', each with a toggle icon to its right. A 'SAVE' button is located at the bottom right of the form. The version 'V2185.00.06 %R' is visible in the bottom right corner of the interface.

SSH Access

Change information about SSH access and SCP services.

5G Router

Dashboard
System
System
Administration
Realtime Graphs
ACL Settings
Backup / Flash Firmware
Reboot
Services
WiFi
Network
VPN
Logout

Router Password SSH Access SSH-Keys

SSH Access

Dropbear offers SSH network shell access and an integrated SCP server

Dropbear Instance

Interface

unspecified

Listen only on the given interface or, if unspecified, on all

Port

2020

Password authentication
☒

Allow SSH password authentication

Allow root logins with password
☒

Allow the root user to login with password

Gateway Ports
☐

Allow remote hosts to connect to local SSH forwarded ports

ADD INSTANCE

DELETE

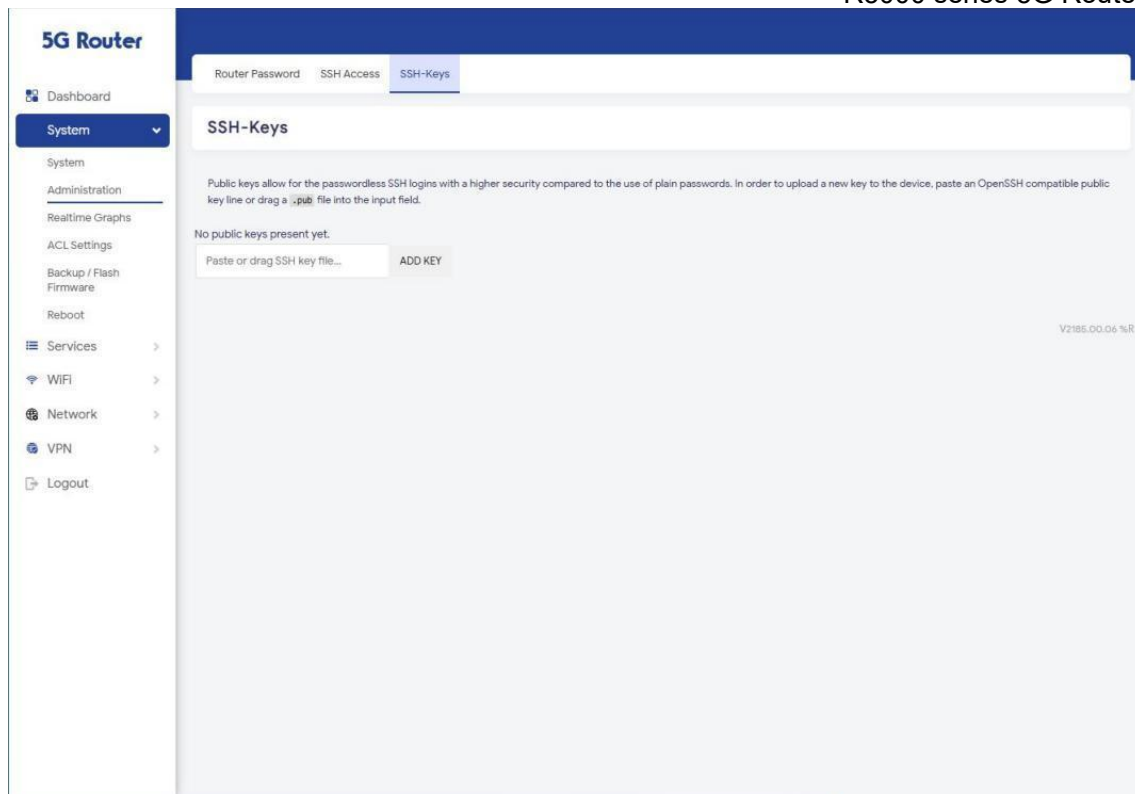
SAVE & APPLY

SAVE

RESET

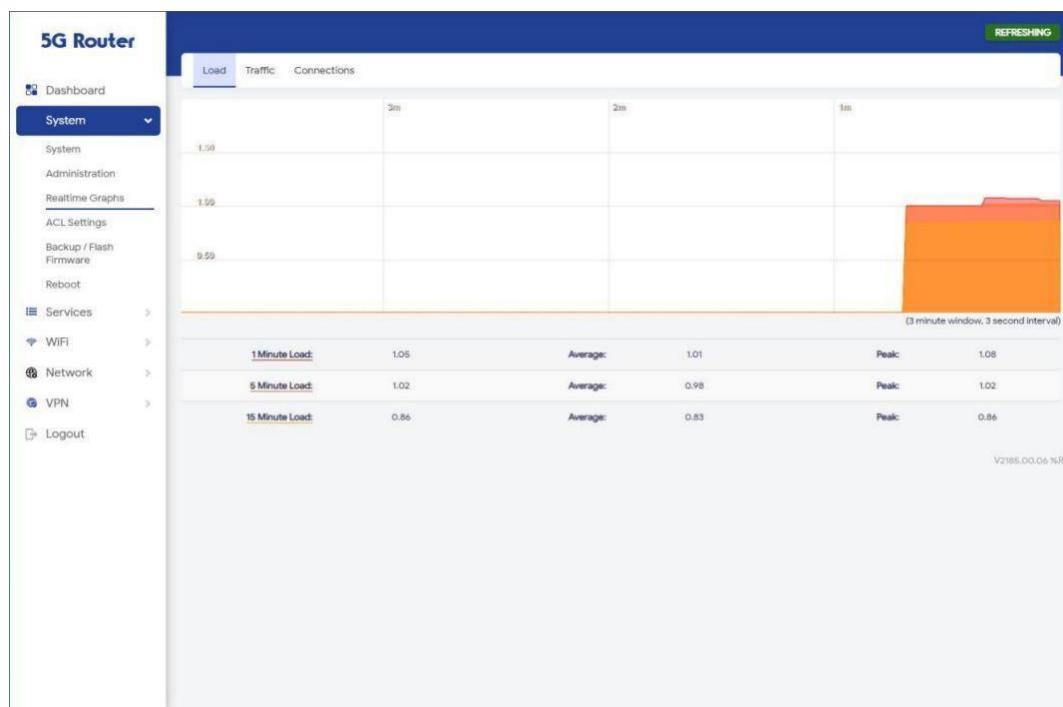
SSH-Keys

Change the public key file for SSH access.



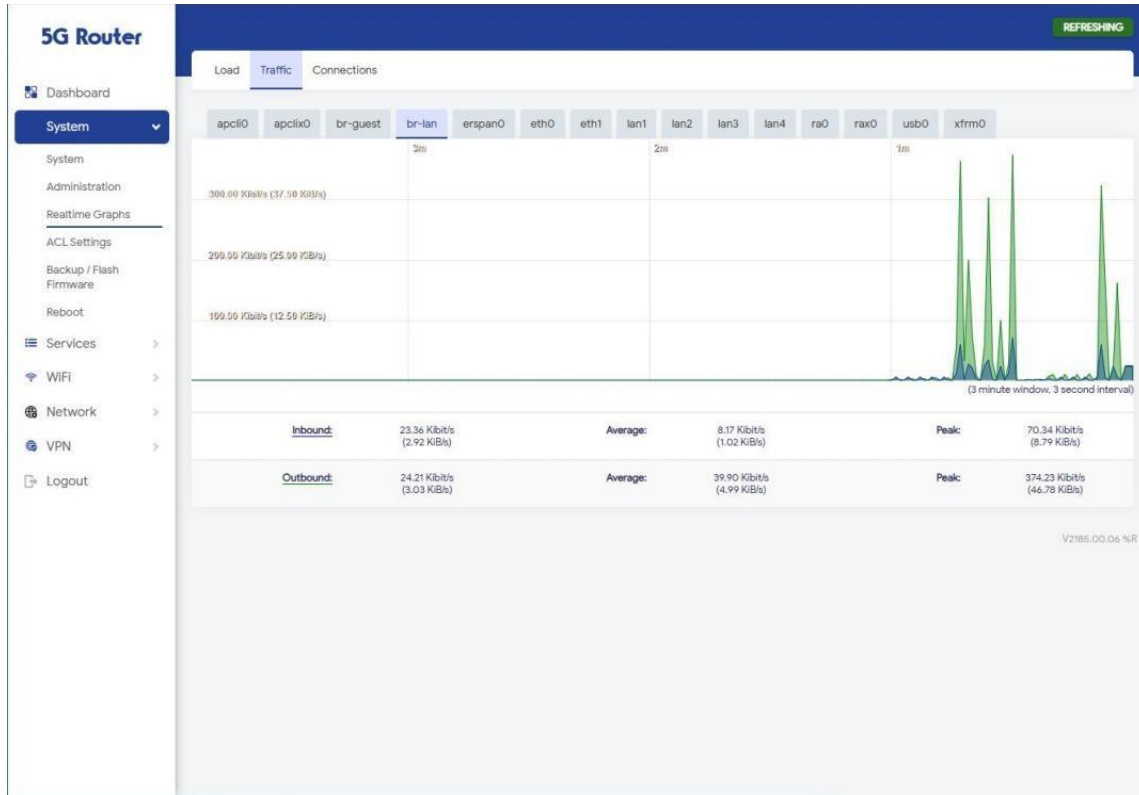
Realtime Graphs

Displays the CPU load for the last 1 minute, 5 minutes, and 15 minutes.



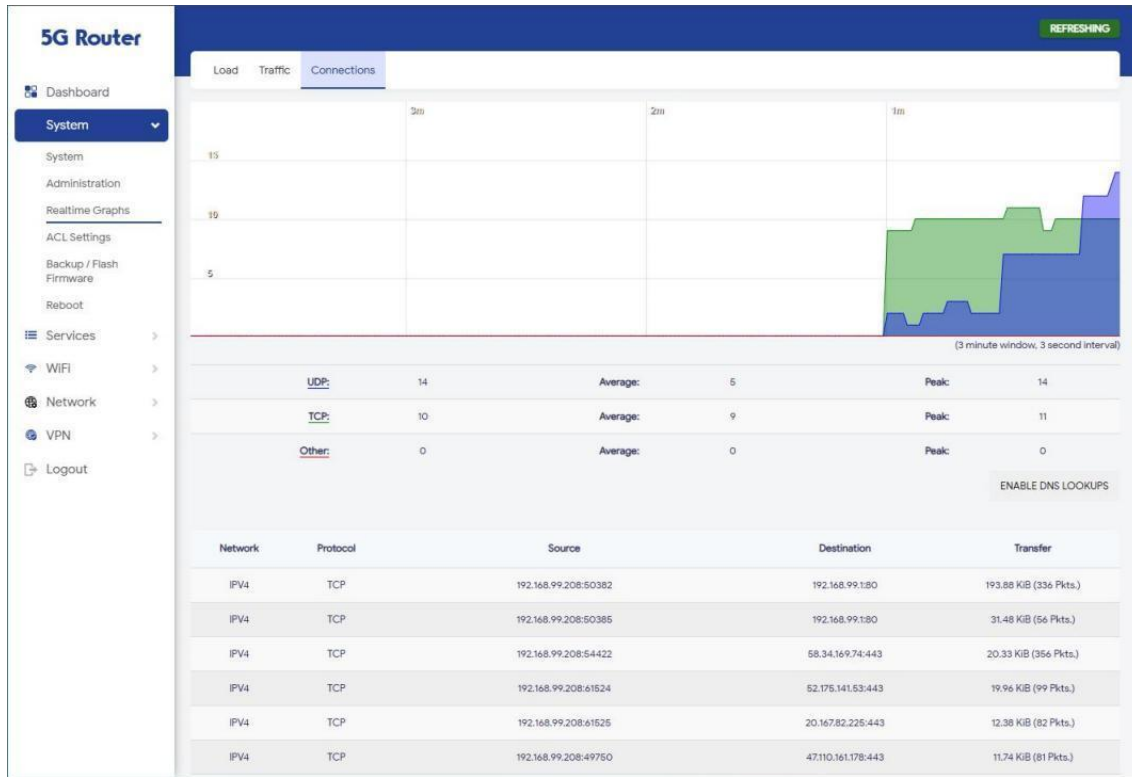
Traffic

Displays the traffic usage of the interface.



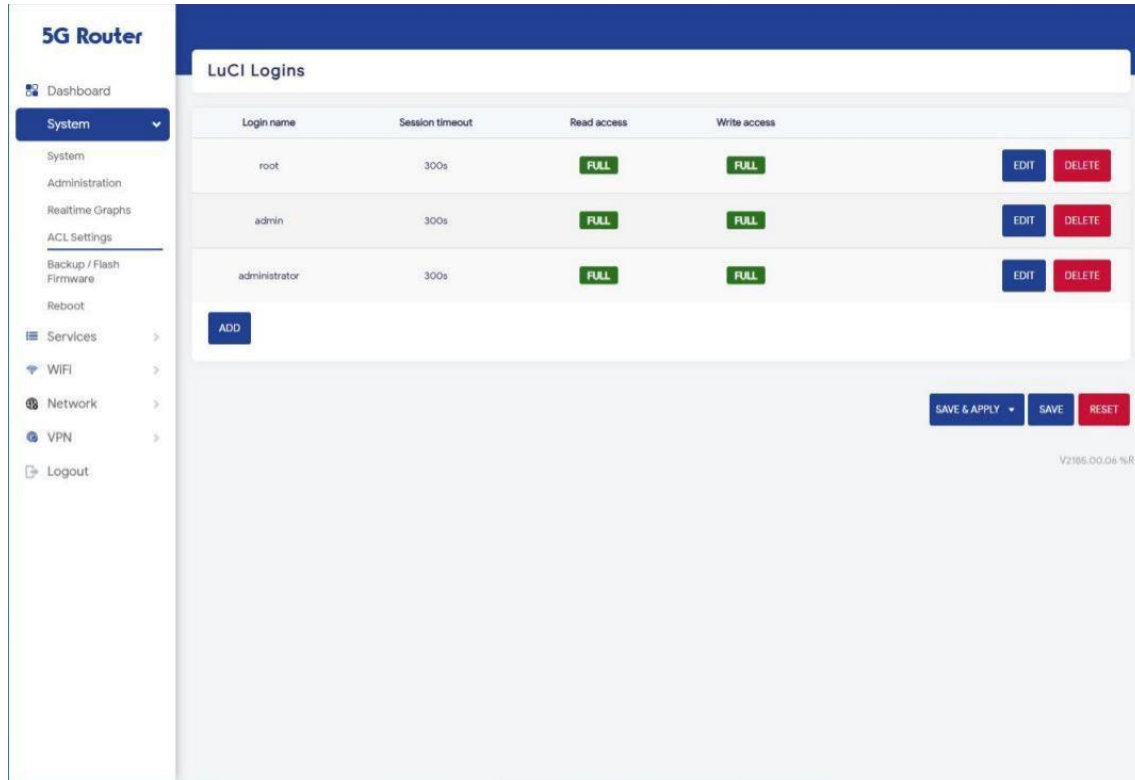
Connections

Displays the connectivity of network traffic.



ACL Settings

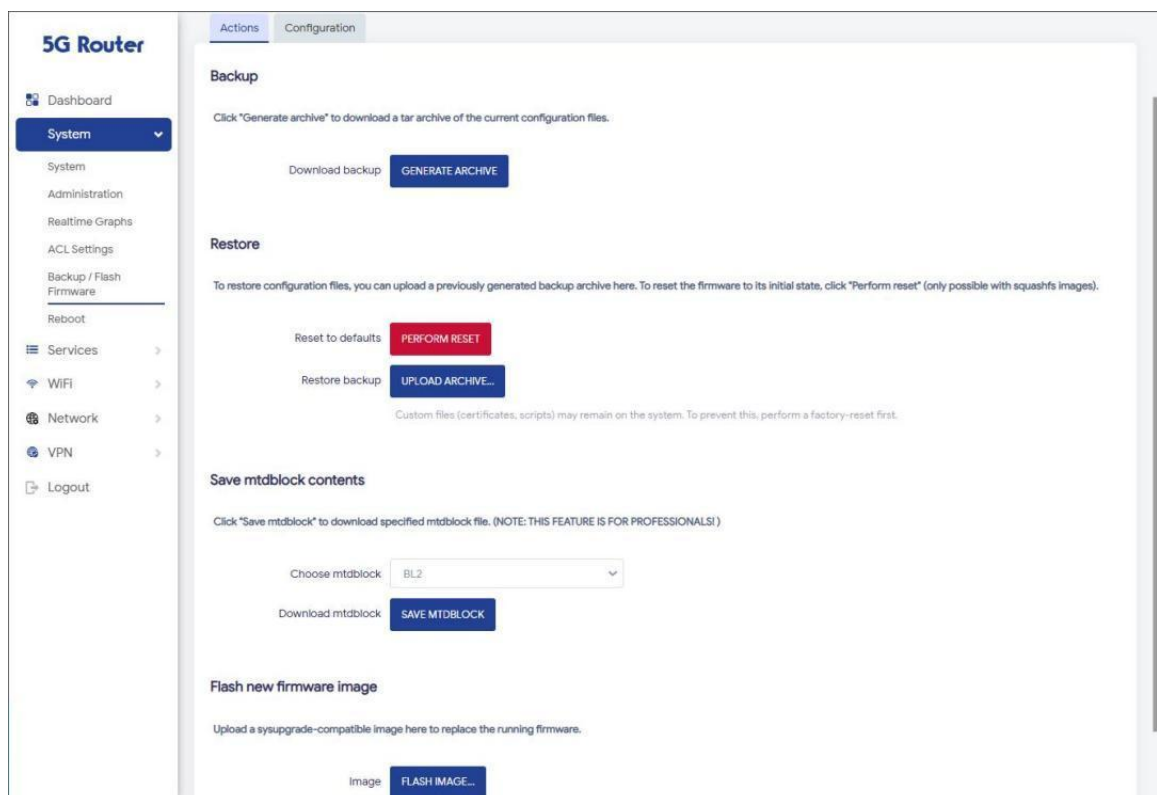
Configure accounts and permissions for the router administration page.



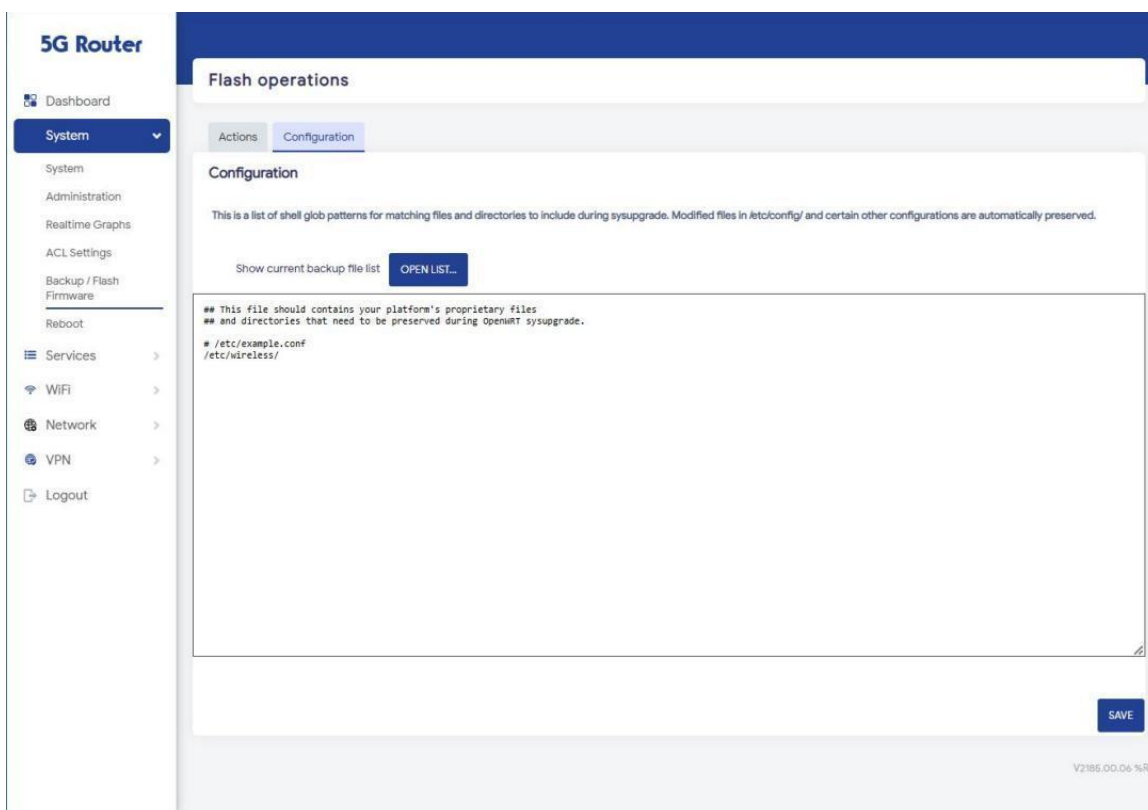
Backup / Flash Firmware

Flash operations

Backup, restore factory settings, restore backup configuration and upgrade firmware can be performed.

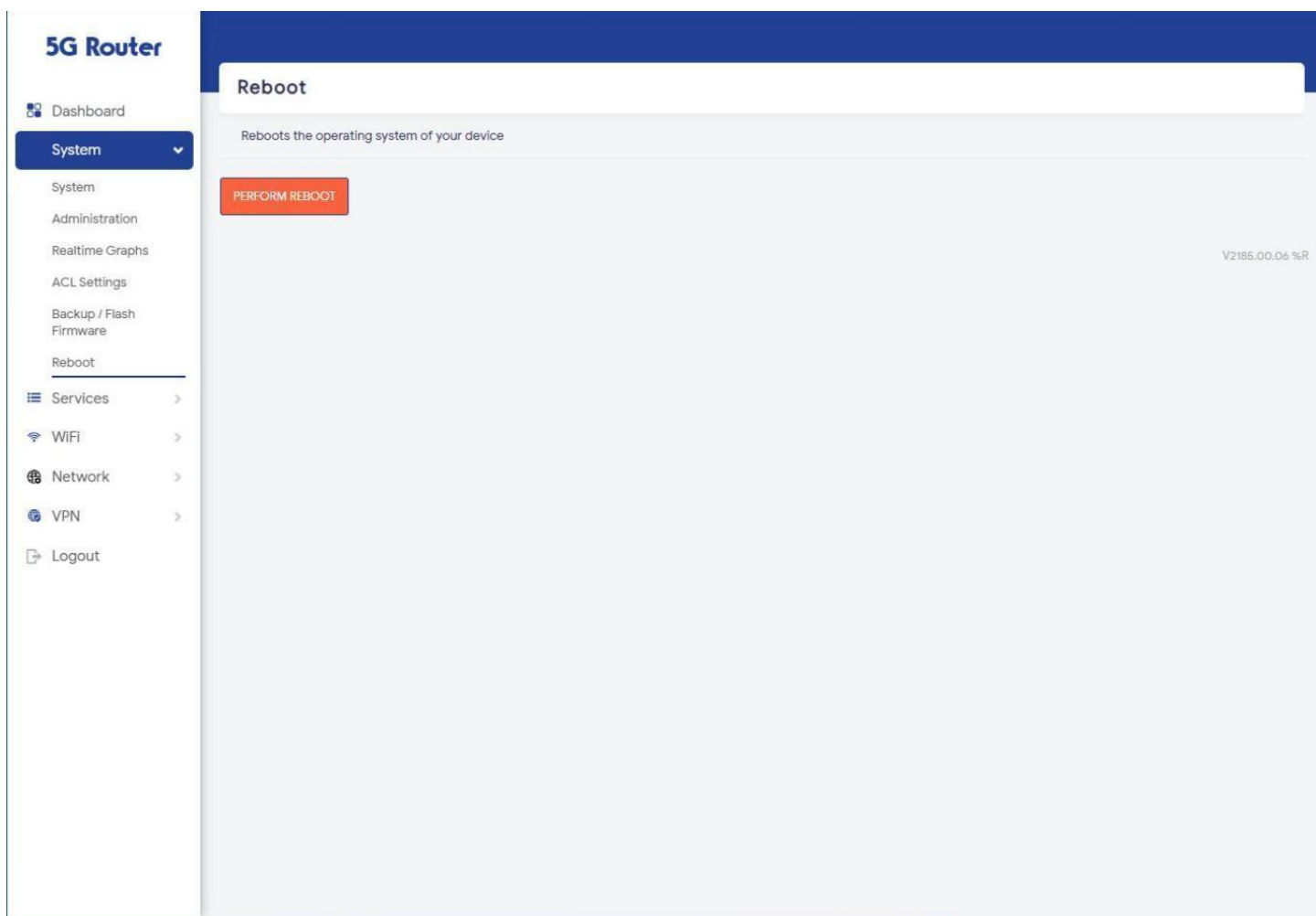


Configuration



Reboot

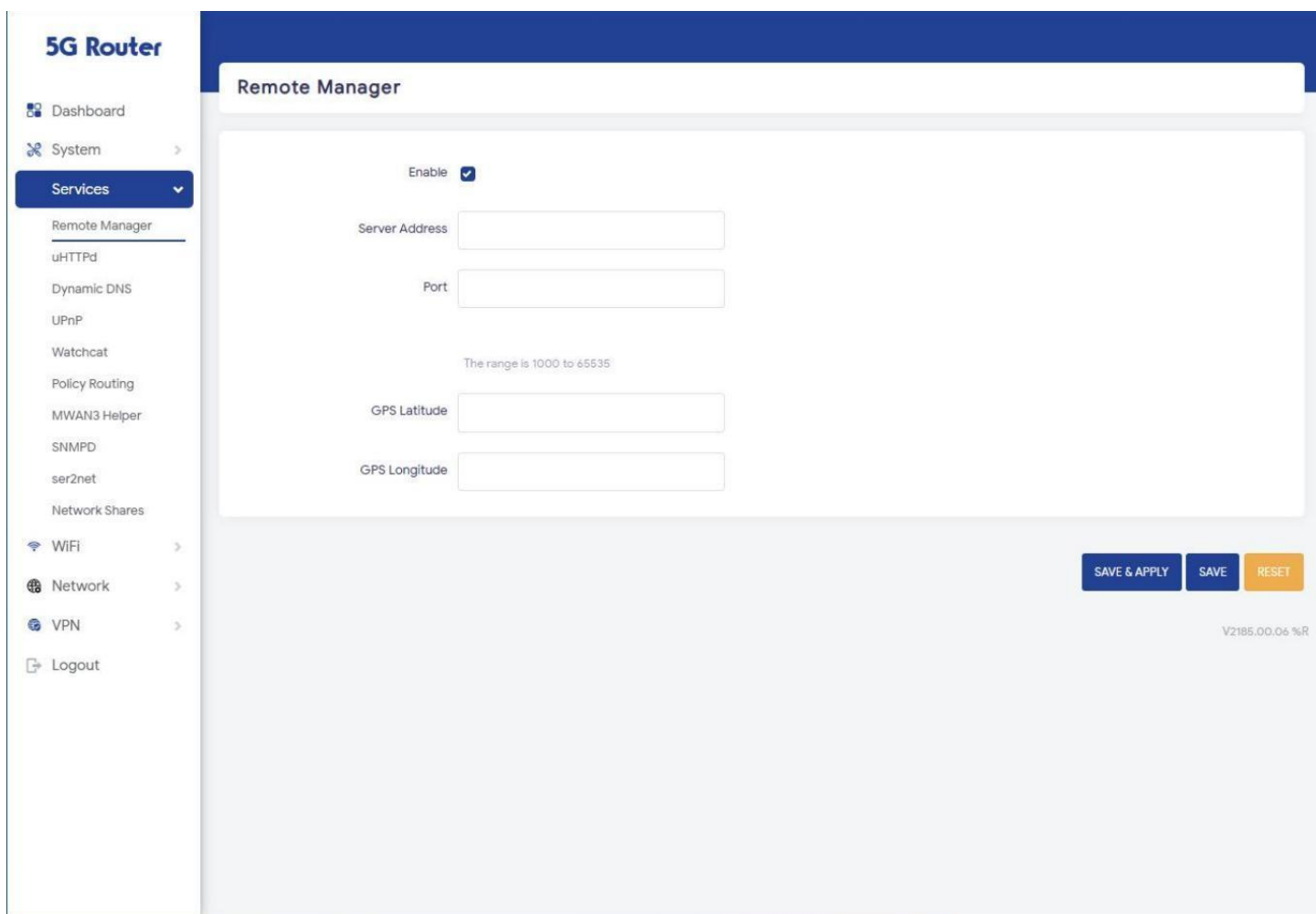
Restart the system on your device.



Service

Remote Manager

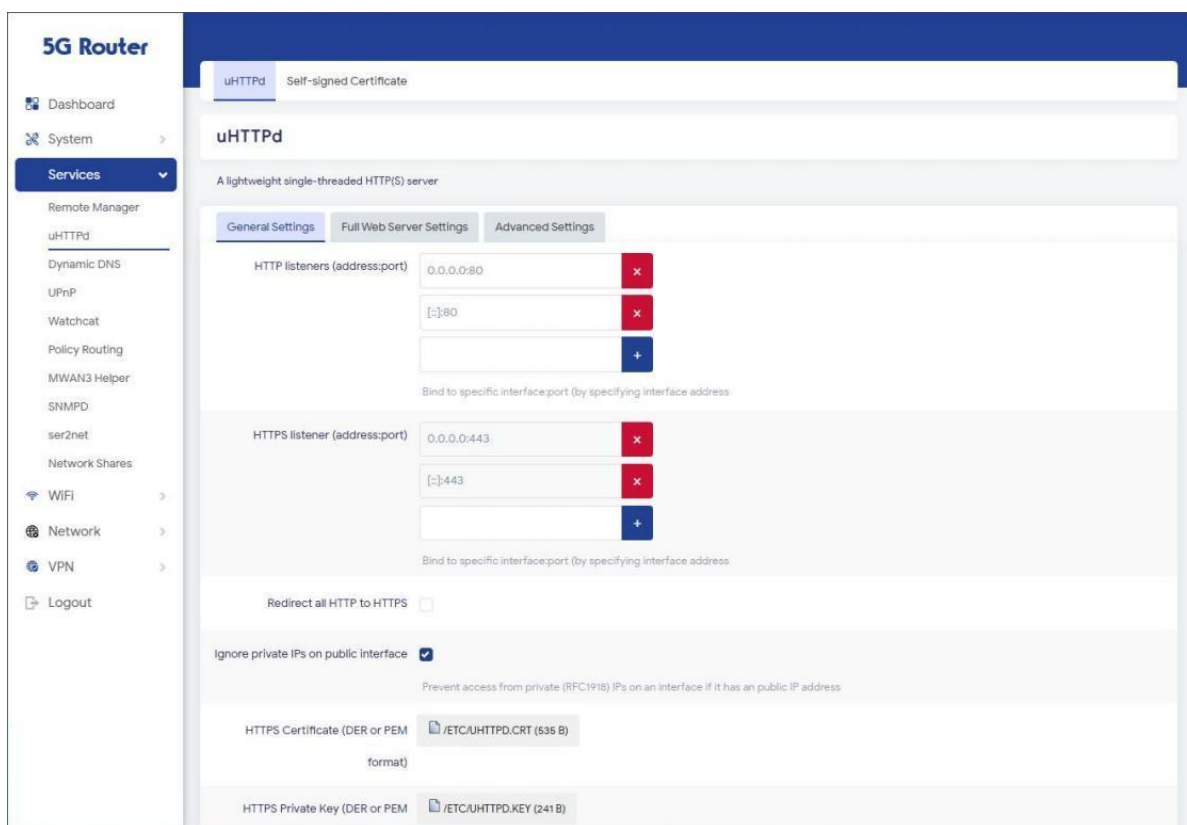
Configure information about the remote management server



uHTTPd

General Settings

Configure the general settings for uHTTPd



Self-singed Certificate

Configure information about self-signed certificates.

5G Router

Dashboard

System

Services

Remote Manager

uHTTPd

Dynamic DNS

UPnP

Watchcat

Policy Routing

MWAN3 Helper

SNMPD

ser2net

Network Shares

WiFi

Network

VPN

Logout

uHTTPd

Self-signed Certificate

uHTTPd

A lightweight single-threaded HTTP(S) server

uHTTPd Self-signed Certificate Parameters

Valid for # of Days

730

Length of key in bits

2048

Server Hostname

OpenWrt

a.k.a CommonName

Organization

If empty, a random/unique value is used in cert generation

Location

Unknown

State

Somewhere

Country

ZZ

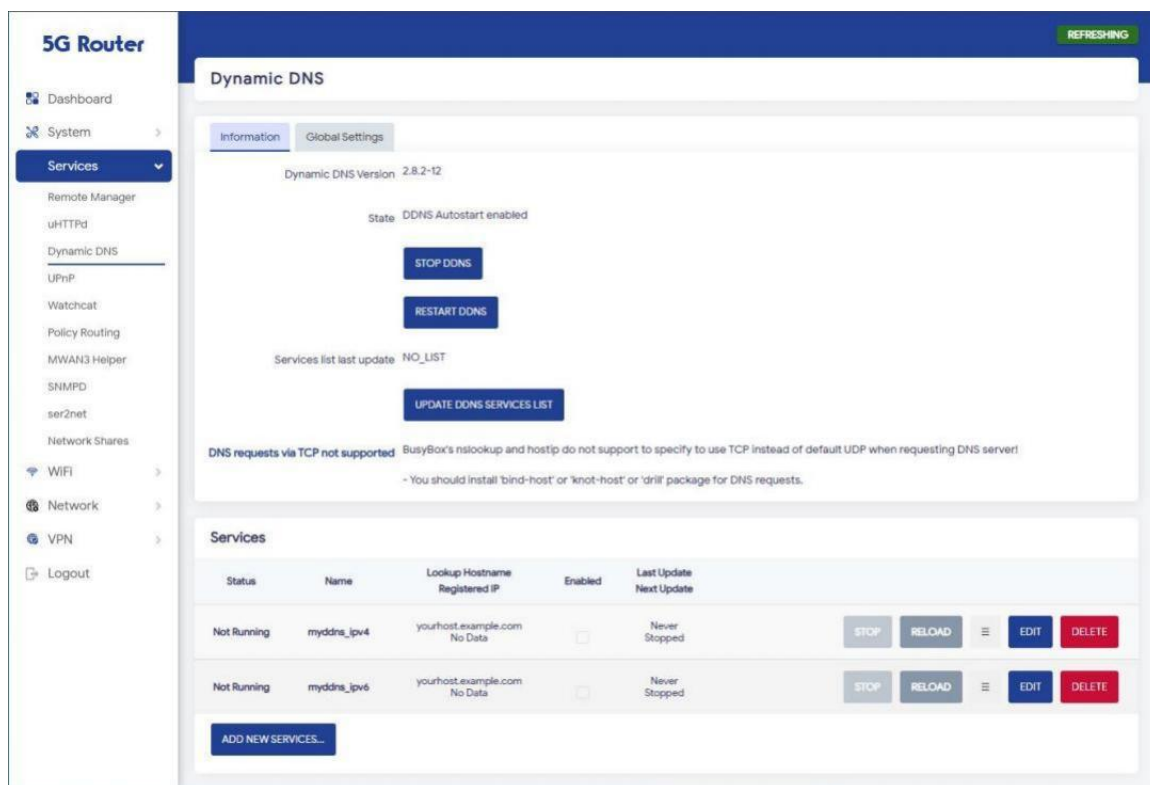
SAVE & APPLY

SAVE

RESET

Dynamic DNS

Configure general settings for dynamic DNS



Global Settings

Configure advanced settings for dynamic DNS.

5G Router

Dashboard
System
Services
Remote Manager
uHTTPd
Dynamic DNS
UPnP
Watchcat
Policy Routing
MWAN3 Helper
SNMPD
ser2net
Network Shares
WIFI
Network
VPN
Logout

Dynamic DNS

Information

Global Settings

Allow non-public IPs

Non-public and by default blocked IPs:

IPv4: 0/0, 10/8, 100-64/10, 127/8, 169-254/16, 172.16/12, 192.168/16

IPv6: ::732, F000::/4*

Date format

%F %R

For supported codes look here

Current setting: 2025-02-05 08:04

Status directory

/var/run/ddns

Directory contains PID and other status information for each running section.

Log directory

/var/log/ddns

Directory contains Log files for each running section.

Log length

250

Number of last lines stored in log files

Use cURL

If Wget and cURL package are installed, Wget is used for communication by default.

Ca Certs path

IGNORE

Ca Certs path that will be used to download services data. Set IGNORE to skip certificate validation.

Services URL Download

https://raw.githubusercontent.com/openwrt/ddns

URL used to download services file. By default is the master openwrt ddns package repo.

UPnP

Actives UPnP

UPnP allows clients in the local network to automatically configure the router.

5G Router

Dashboard

System

Services

Remote Manager

uHTTPd

Dynamic DNS

UPnP

Watchcat

Policy Routing

MWAN3 Helper

SNMPD

ser2net

Network Shares

WiFi

Network

VPN

Logout

Active UPnP

Settings

ACL

REFRESHING

Active UPnP Redirects

UPnP allows clients in the local network to automatically configure the router.

Protocol	External Port	Client Address	Host	Client Port	Description
There are no active redirects.					

SAVE & APPLY

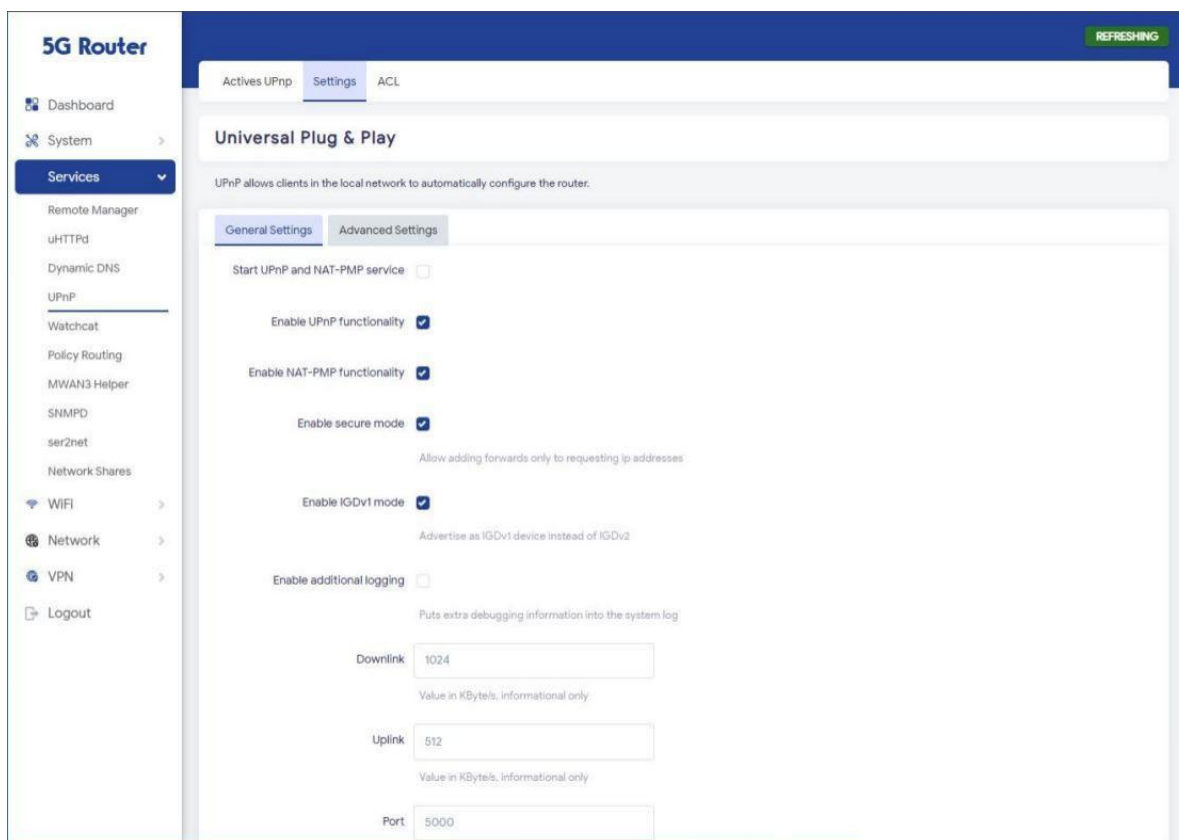
SAVE

RESET

V2185.00.06 %R

Settings

Configure the general settings for UPnP.



5G Router

Dashboard
System
Services
Remote Manager
uHTTPd
Dynamic DNS
UPnP
Watchcat
Policy Routing
MWAN3 Helper
SNMPD
ser2net
Network Shares
WIFI
Network
VPN
Logout

Actives UPnP Settings ACL

Universal Plug & Play

UPnP allows clients in the local network to automatically configure the router.

General Settings Advanced Settings

Start UPnP and NAT-PMP service ☐

Enable UPnP functionality ☒

Enable NAT-PMP functionality ☒

Enable secure mode ☒
Allow adding forwards only to requesting ip addresses

Enable IGMP mode ☒
Advertise as IGMPv1 device instead of IGMPv2

Enable additional logging ☐
Puts extra debugging information into the system log

Downlink
Value in KBytes, informational only

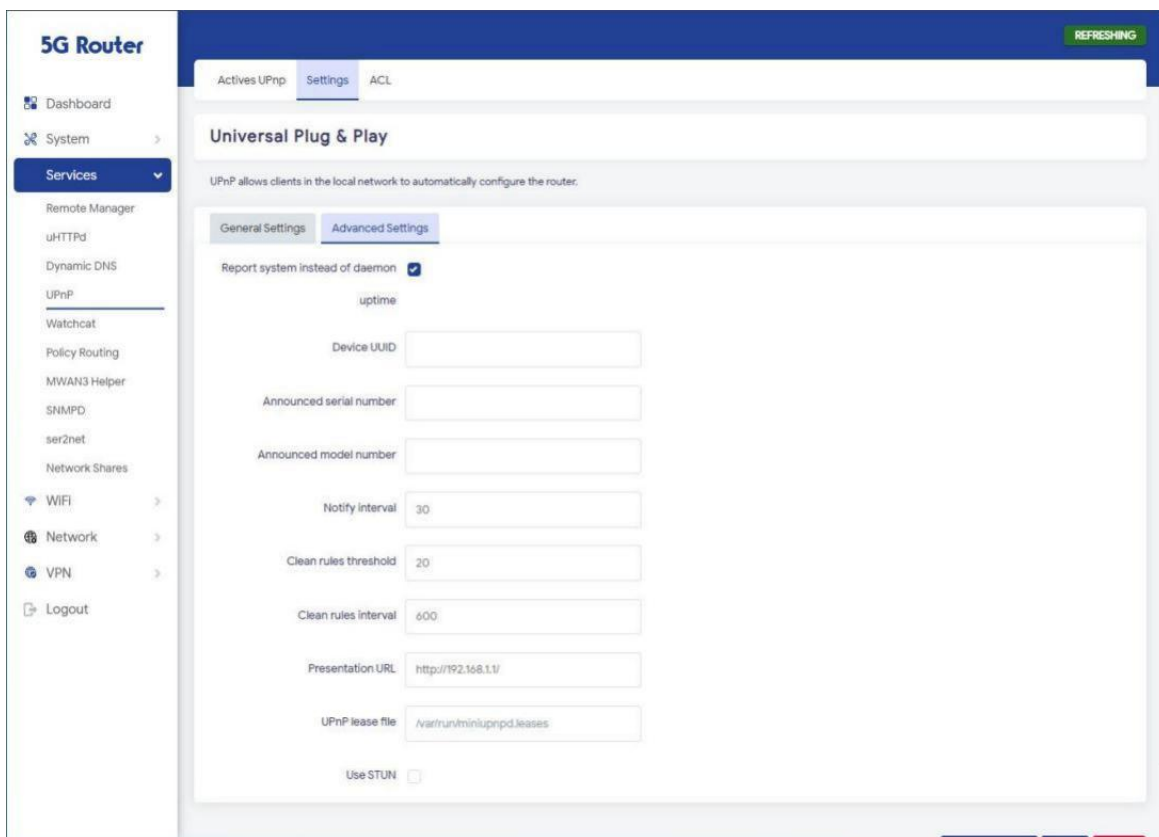
Uplink
Value in KBytes, informational only

Port

REFRESHING

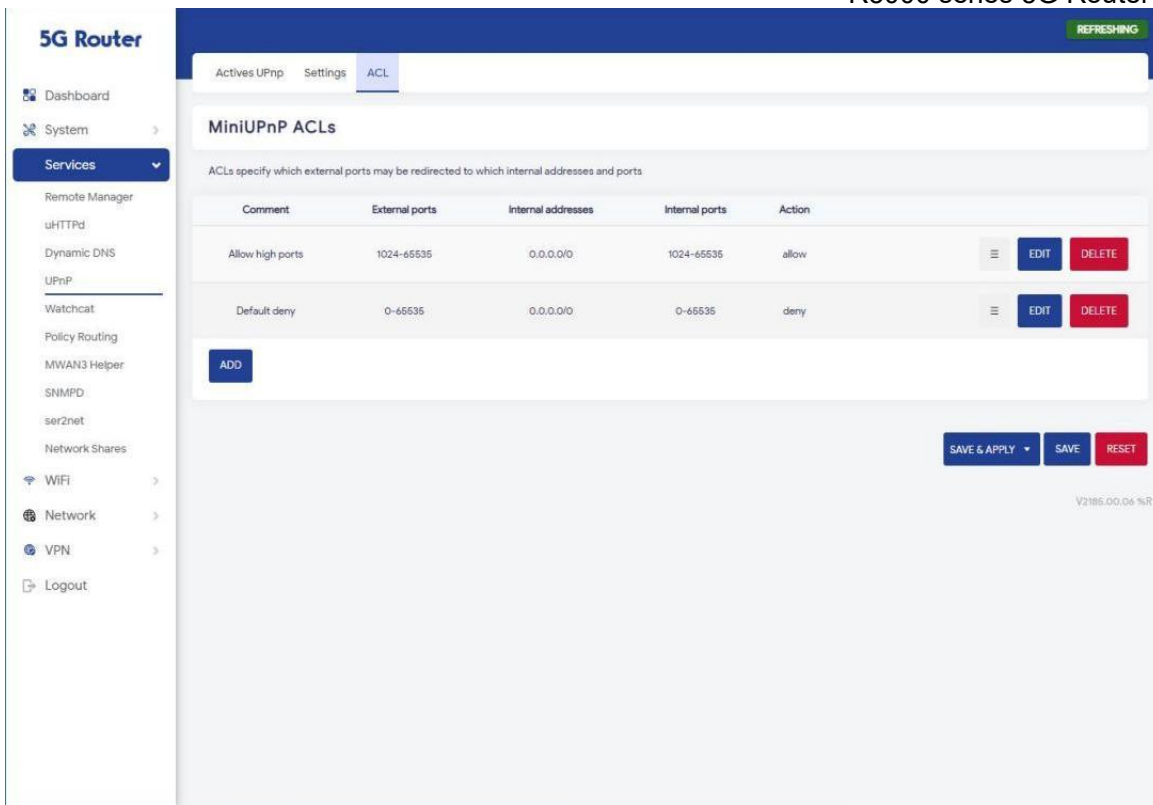
Advanced Settings

Configure advanced settings for UPnP.



ACL

ACLs specify which external ports may be redirected to which internal addresses and ports.

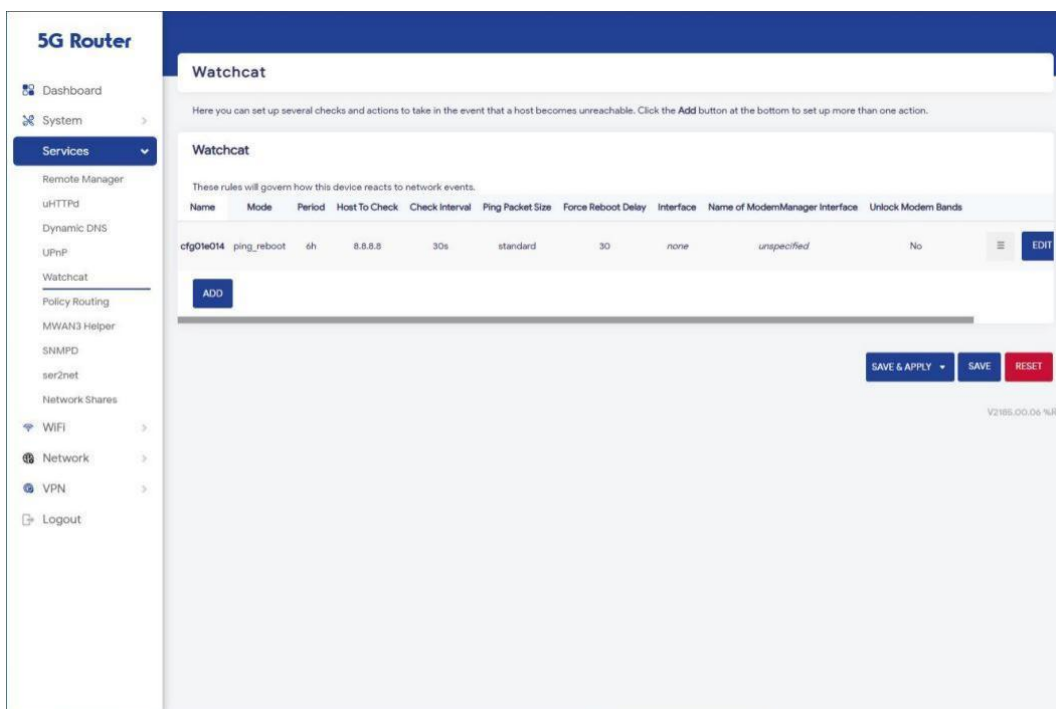


The screenshot shows the '5G Router' web interface. The left sidebar contains a menu with 'Services' expanded, showing options like Remote Manager, uHTTPd, Dynamic DNS, UPnP, Watchcat, Policy Routing, Mwan3 Helper, SNMPD, ser2net, and Network Shares. The main content area is titled 'MiniUPnP ACLs' and includes a description: 'ACLs specify which external ports may be redirected to which internal addresses and ports'. Below this is a table with columns: Comment, External ports, Internal addresses, Internal ports, and Action. The table contains two entries: 'Allow high ports' and 'Default deny'. At the bottom of the table is an 'ADD' button. To the right of the table are buttons for 'SAVE & APPLY', 'SAVE', and 'RESET'. A 'REFRESHING' button is visible in the top right corner of the main content area.

Comment	External ports	Internal addresses	Internal ports	Action
Allow high ports	1024-65535	0.0.0.0/0	1024-65535	allow
Default deny	0-65535	0.0.0.0/0	0-65535	deny

Watchcat

Here you can set up several checks and actions to take in the event that a host becomes unreachable

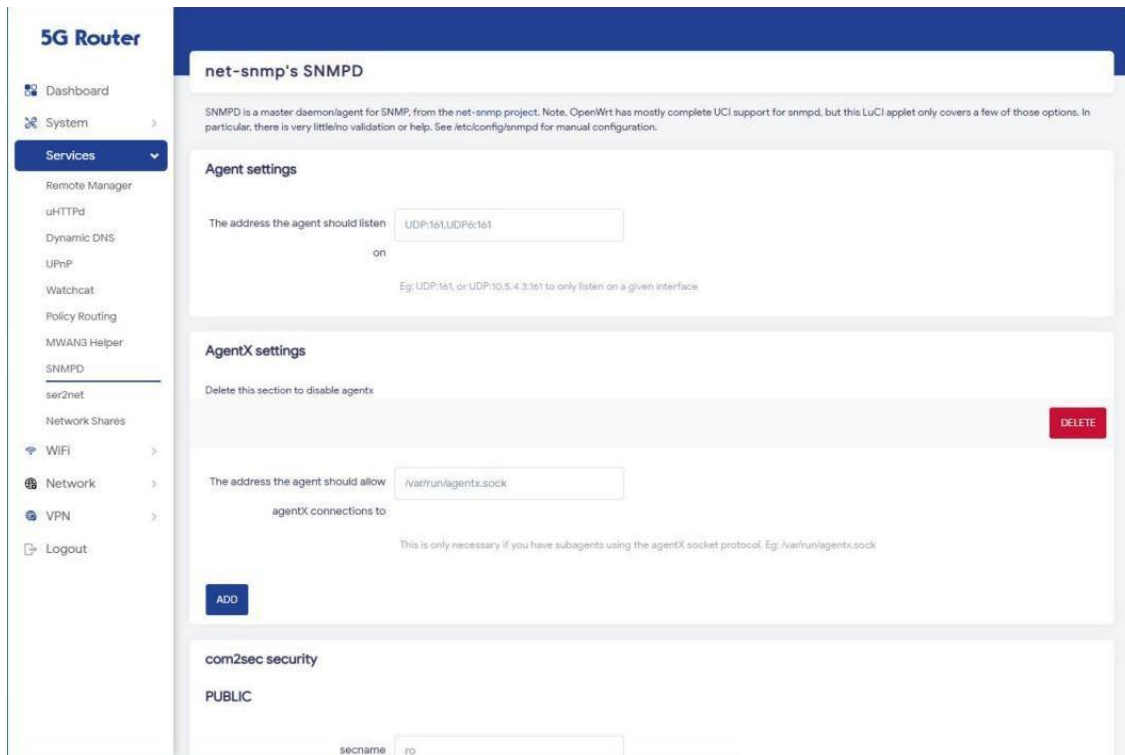


The screenshot shows the '5G Router' web interface. The left sidebar contains a menu with 'Services' expanded, showing options like Remote Manager, uHTTPd, Dynamic DNS, UPnP, Watchcat, Policy Routing, Mwan3 Helper, SNMPD, ser2net, and Network Shares. The main content area is titled 'Watchcat' and includes a description: 'Here you can set up several checks and actions to take in the event that a host becomes unreachable. Click the Add button at the bottom to set up more than one action.' Below this is a table with columns: Name, Mode, Period, Host To Check, Check Interval, Ping Packet Size, Force Reboot Delay, Interface, Name of ModemManager Interface, and Unlock Modem Bands. The table contains one entry: 'cfg01e014'. At the bottom of the table is an 'ADD' button. To the right of the table are buttons for 'SAVE & APPLY', 'SAVE', and 'RESET'. A 'REFRESHING' button is visible in the top right corner of the main content area.

Name	Mode	Period	Host To Check	Check Interval	Ping Packet Size	Force Reboot Delay	Interface	Name of ModemManager Interface	Unlock Modem Bands
cfg01e014	ping_reboot	6h	8.8.8.8	30s	standard	30	none	unspecified	No

SNMPD

Configure SNMP related information.



5G Router

- Dashboard
- System
- Services**
 - Remote Manager
 - uHTTPd
 - Dynamic DNS
 - UPnP
 - Watchcat
 - Policy Routing
 - MWAN3 Helper
 - SNMPD**
 - ser2net
 - Network Shares
- WiFi
- Network
- VPN
- Logout

net-snmp's SNMPD

SNMPD is a master daemon/agent for SNMP, from the net-snmp project. Note, OpenWrt has mostly complete UCI support for snmpd, but this LuCI applet only covers a few of those options. In particular, there is very little/no validation or help. See `/etc/config/snmpd` for manual configuration.

Agent settings

The address the agent should listen

on ☐

Eg: UDP:161, or UDP:10.5.4.3:161 to only listen on a given interface

AgentX settings

Delete this section to disable agentx DELETE

The address the agent should allow

agentX connections to

This is only necessary if you have subagents using the agentX socket protocol. Eg: /var/run/agentx.sock

ADD

com2sec security

PUBLIC

secname

ser2 net

Configure the general settings for serial port.

5G Router

- Dashboard
- System
- Services**
 - Remote Manager
 - uHTTpd
 - Dynamic DNS
 - UPnP
 - Watchcat
 - Policy Routing
 - MWAN3 Helper
 - SNMPD
 - ser2net**
 - Network Shares
- WiFi
- Network
- VPN
- Logout

Settings Proxies LEDs

Ser2Net Settings -- Global

Global and Control Port and Serial Port Default value Settings.

Global switch

Enabled ☒

Control port

Enabled ☐

Binding address

The network to listen from.

Control port

The TCP port to listen on.

Default settings

Baud rate

The speed the device port should operate at.

Data bits

Proxies

5G Router

- Dashboard
- System
- Services**
 - Remote Manager
 - uHTTpd
 - Dynamic DNS
 - UPnP
 - Watchcat
 - Policy Routing
 - MWAN3 Helper
 - SNMPD
 - ser2net**
 - Network Shares
- WiFi
- Network
- VPN
- Logout

Settings Proxies LEDs

Ser2Net Settings -- Proxies

Proxies Settings

Name	Enabled	Service port	Protocol	Timeout	Device	Baud rate	Data bits	Parity	Stop bits	
RS232	No	5000	raw	0	/dev/ttyS1	115200	8	none	1	EDIT DELETE
RS485	No	5001	raw	0	/dev/ttyS2	115200	8	none	1	EDIT DELETE

ADD

SAVE & APPLY

SAVE

RESET

V2185.00.06 %R

Network Shares

General Settings

Configure general settings for SMB.

5G Router

Dashboard
System
Services
Remote Manager
uHTTPd
Dynamic DNS
UPnP
Watchcat
Policy Routing
MWAN3 Helper
SNMPD
ser2net
Network Shares
WIFI
Network
VPN
Logout

Network Shares

Ksmbd/Kmod Version 3.4.5

General Settings

Edit Template

Interface
unspecified
Listen only on the given interface or, if unspecified, on lan

Workgroup
WORKGROUP

Description
Ksmbd on OpenWrt

Allow legacy (insecure)
protocols/authentication:
Allow legacy smb(v1)/Lanman connections, needed for older devices without smb(v2.1/3) support.

Shared Directories

Please add directories to share. Each directory refers to a folder on a mounted device.

Name	Path	Browse-able	Read-only	Force Root	Allowed users	Allow guests	Inherit owner	Hide dot files	Create mask	Directory mask
This section contains no values yet										

ADD

SAVE & APPLY

SAVE

RESET

V2185.00.06 %R

Edit Template

Edit the template used to generate ksmbd settings.

5G Router

Dashboard
System
Services
Remote Manager
uHTTPd
Dynamic DNS
UPnP
Watchcat
Policy Routing
MWAN3 Helper
SNMPD
ser2net
Network Shares
WIFI
Network
VPN
Logout

Network Shares

Ksmbd/Kmod Version 3.4.5

General Settings
Edit Template

Edit the template that is used for generating the ksmbd configuration.

```

[global]
netbios name = [NAME]
server string = [DESCRIPTION]
workgroup = [WORKGROUP]
interfaces = [INTERFACES]
bind interfaces only = yes
ipc timeout = 20
deadtime = 15
map to guest = Bad User
smb2 max read = 64K
smb2 max write = 64K
smb2 max trans = 64K
cache read buffers = no
cache trans buffers = no

```

This is the content of the file '/etc/ksmbd/smb.conf.template' from which your ksmbd configuration will be generated. Values enclosed by pipe symbols ('|') should not be changed. They get their values from the 'General Settings' tab.

Shared Directories

Please add directories to share. Each directory refers to a folder on a mounted device.

Name	Path	Browse-able	Read-only	Force Root	Allowed users	Allow guests	Inherit owner	Hide dot files	Create mask	Directory mask
This section contains no values yet										

ADD

SAVE & APPLY

SAVE

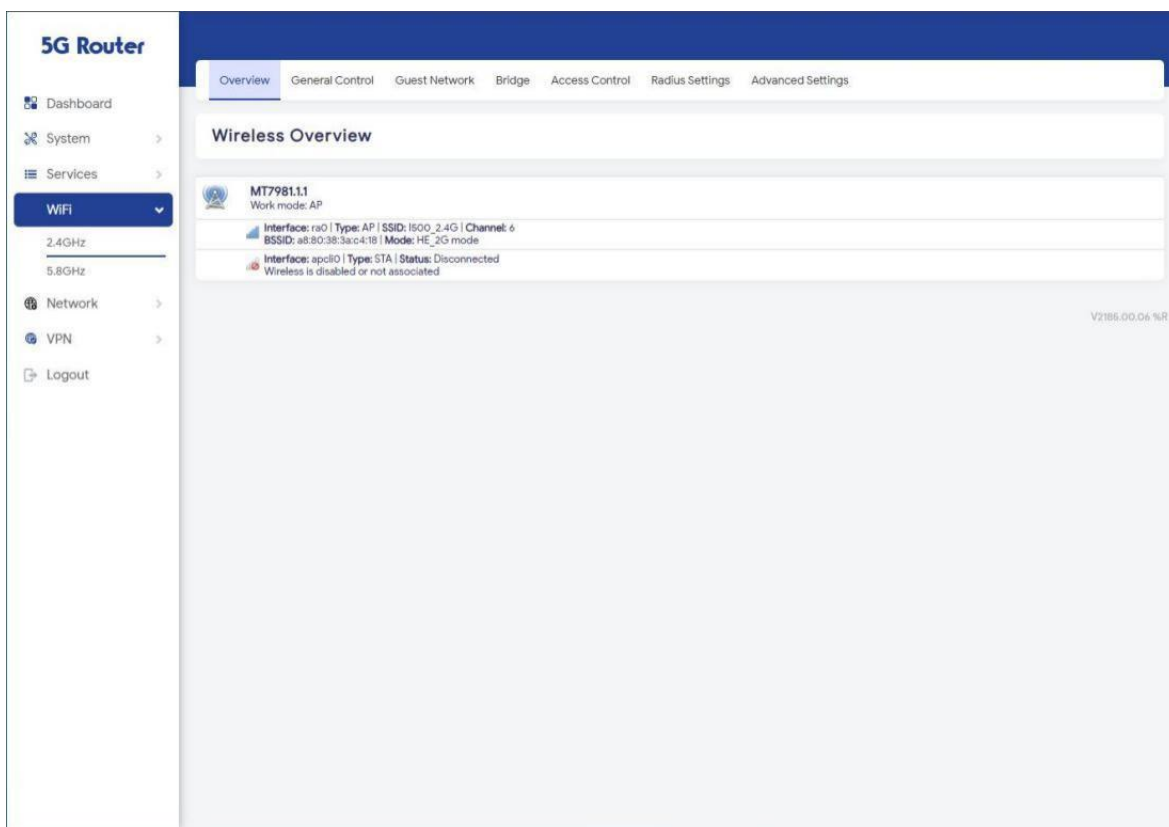
RESET

WiFi Function

Overview

The settings for 2.4G and 5.8G WiFi are the same. Taking 2.4G WiFi settings as an example.

2.4G WiFi overview



General Control

Configure the parameters for 2.4GHz wireless network.

5G Router

Dashboard

System

Services

WiFi

2.4GHz

5.8GHz

Network

VPN

Logout

Overview

General Control

Guest Network

Bridge

Access Control

Radius Settings

Advanced Settings

WiFi 2.4G Settings

Configure the parameters for 2.4GHz wireless network.

Enable

SSID

Hide ESSID

Wireless Mode

Authentication Method

WPA Encryption

WPA Pre-Shared Key

Rekey Method

HT Bw

Radio Channel

Extension Channel

max sta connection number

Guest Network

5G Router

Dashboard

System

Services

WiFi

Network

VPN

Logout

Overview

General Control

Guest Network

Bridge

Access Control

Radius Settings

Advanced Settings

WiFi 2.4G Guest Settings

Configure the params of 2.4G wireless for Guest AP

Enable

Need to add SSID to save this

2.4GHz

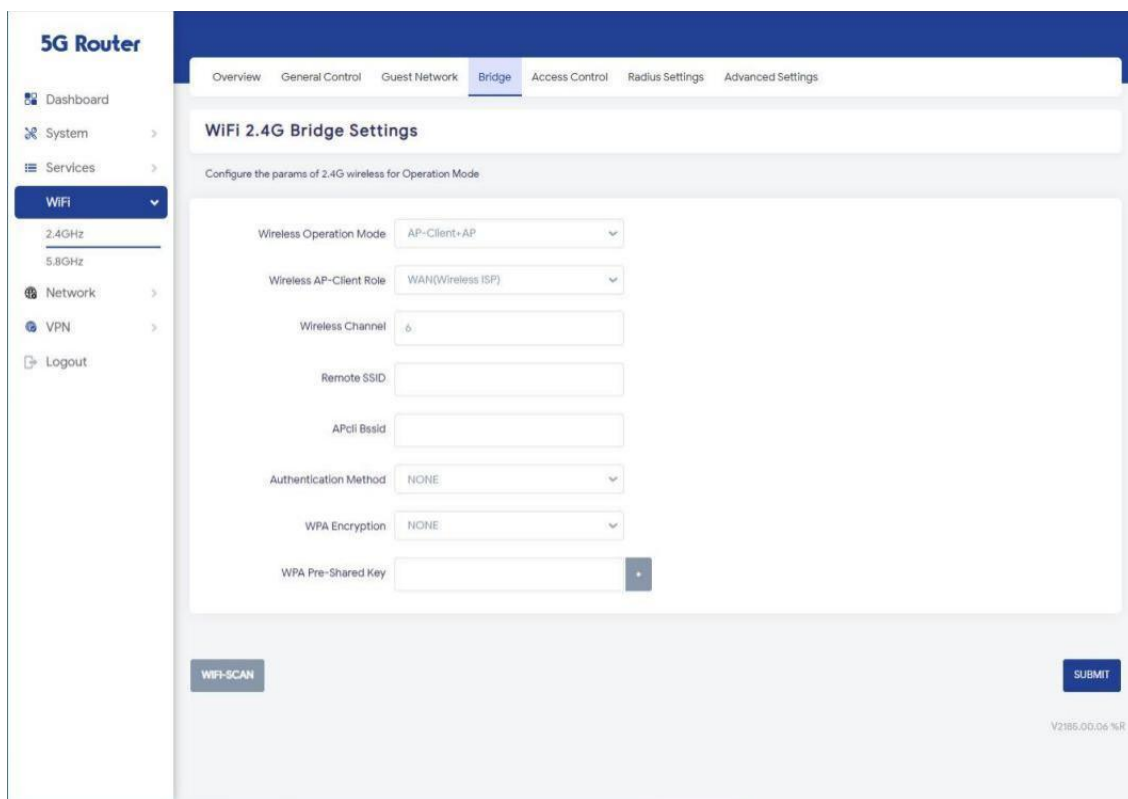
5.8GHz

Submit

V2185.00.06 %R

Bridge

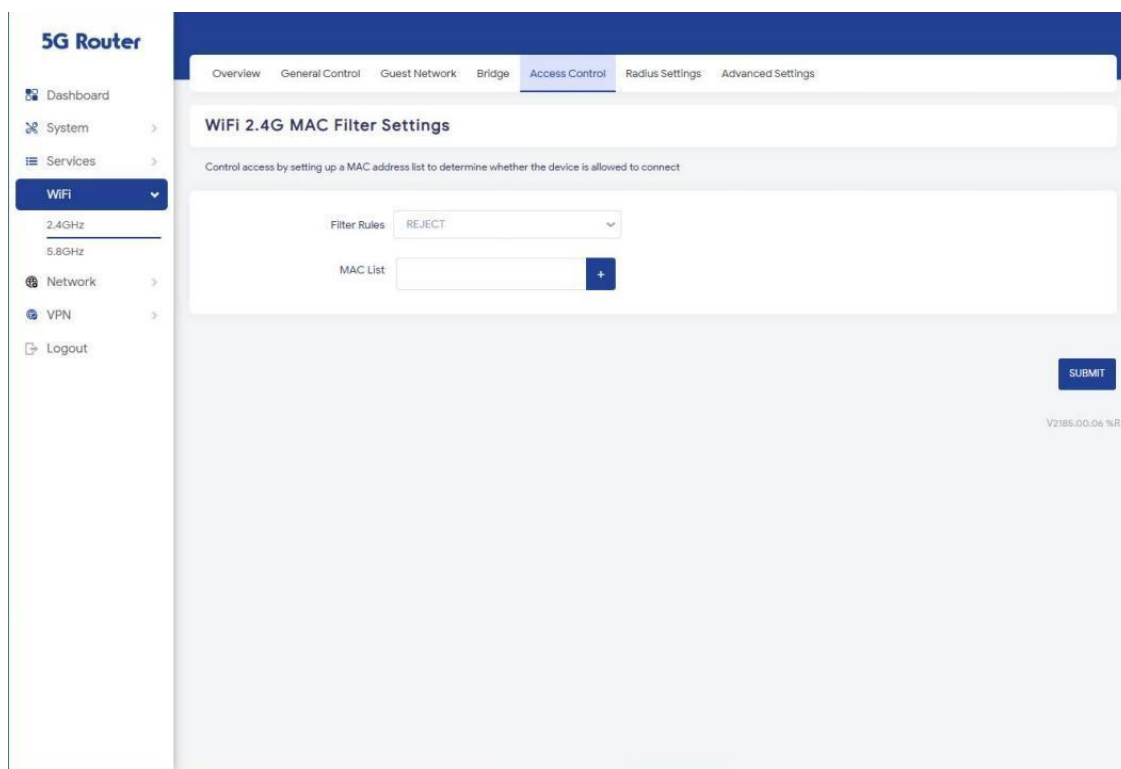
Configure the parameters of 2.4G wireless for Operation Mode.



The screenshot displays the '5G Router' web interface. On the left is a sidebar menu with options: Dashboard, System, Services, WiFi (selected), Network, VPN, and Logout. The 'WiFi' section is expanded, showing '2.4GHz' and '5.8GHz' sub-menus. The main content area is titled 'WiFi 2.4G Bridge Settings' and includes a sub-header 'Configure the params of 2.4G wireless for Operation Mode'. Below this, there are several configuration fields: 'Wireless Operation Mode' (dropdown menu set to 'AP-Client+AP'), 'Wireless AP-Client Role' (dropdown menu set to 'WAN(Wireless ISP)'), 'Wireless Channel' (text input set to '6'), 'Remote SSID' (text input), 'APcli Bssid' (text input), 'Authentication Method' (dropdown menu set to 'NONE'), 'WPA Encryption' (dropdown menu set to 'NONE'), and 'WPA Pre-Shared Key' (text input with a toggle switch). At the bottom left is a 'WIFI-SCAN' button, and at the bottom right is a 'SUBMIT' button. The version 'V2185.00.04 %R' is visible in the bottom right corner.

Access Control

Control access by setting up a MAC address list to determine whether the device is allowed to connect.



Radius Settings

Configure the parameters of 2.4G wireless for Operation Mode.

5G Router

Dashboard
System
Services
WIFI
2.4GHz
5.8GHz
Network
VPN
Logout

OverviewGeneral ControlGuest NetworkBridgeAccess ControlRadius SettingsAdvanced Settings

WiFi 2.4G Radius Settings

Configure the params of 2.4G wireless for Operation Mode

RADIUS Server0

RADIUS Port1812

RADIUS Key

SUBMIT

V2186.00.04 %R

Advanced Settings

Configure the advanced parameters of 2.4G wireless.

5G Router

Dashboard

System

Services

WiFi

2.4GHz

5.8GHz

Network

VPN

Logout

OverviewGeneral ControlGuest NetworkBridgeAccess ControlRadius SettingsAdvanced Settings

WiFi 2.4G Settings

Configure the advanced params of 2.4G wireless

HT Spatial Streams TX2T

HT Spatial Streams RX2R

Enable Energy Saving Green AP

Set AP Clients Isolated

Preamble TypeShort

Fragmentation Threshold2346

[256..2346]

RTS Threshold2347

[1..2347]

DTIM Interval1

[1..255]

Beacon Interval100

Network Functions

Interfaces

View and configure device interfaces.

5G Router

- Dashboard
- System
- Services
- WIFI
- Network**
 - Interfaces
 - DHCP and DNS
 - Hostnames
 - Static Routes
 - SQM QoS
 - Diagnostics
 - Firewall
 - Cellular
 - Load Balancing
- VPN
- Logout

REFRESHING

Interfaces

Devices

Global network options

Interfaces

GUEST br-guest	Protocol: Static address RX: 0 B (0 Pkts.) TX: 0 B (0 Pkts.) Error: Network device is not present	RESTART STOP EDIT DELETE
LAN br-lan	Protocol: Static address Uptime: 0h 50m 39s MAC: A8:80:38:3A:C4:1B RX: 2.36 MB (13284 Pkts.) TX: 15.23 MB (16026 Pkts.) IPv4: 192.168.99.1/24 IPv6: fd60:492d:2587::1/60	RESTART STOP EDIT DELETE
WAN lan4	Protocol: DHCP client MAC: A8:80:38:3A:C4:1A RX: 0 B (0 Pkts.) TX: 0 B (0 Pkts.)	RESTART STOP EDIT DELETE
WAN6 lan4	Protocol: DHCPv6 client MAC: A8:80:38:3A:C4:1A RX: 0 B (0 Pkts.) TX: 0 B (0 Pkts.)	RESTART STOP EDIT DELETE
WISP2 apcli9	Protocol: DHCP client RX: 0 B (0 Pkts.) TX: 0 B (0 Pkts.) Information: Not started on boot	RESTART STOP EDIT DELETE
WISP26 apcli9	Protocol: DHCPv6 client RX: 0 B (0 Pkts.) TX: 0 B (0 Pkts.) Information: Not started on boot	RESTART STOP EDIT DELETE
WISP5 apcli9	Protocol: DHCP client RX: 0 B (0 Pkts.) TX: 0 B (0 Pkts.) Information: Not started on boot	RESTART STOP EDIT DELETE
WISP66	Protocol: DHCP client	

Devices

5G Router

- Dashboard
- System
- Services
- WiFi
- Network**
 - Interfaces
 - DHCP and DNS
 - Hostnames
 - Static Routes
 - SQM QoS
 - Diagnostics
 - Firewall
 - Cellular
 - Load Balancing
- VPN
- Logout

REFRESHING

Interfaces

Devices

Global network options

Devices

Device	Type	MAC Address	MTU	
br-lan	Bridge device	A8:80:38:3A:C4:1B	1500	CONFIGURE... RESET
lan2	Network device	A8:80:38:3A:C4:1B	1500	CONFIGURE... RESET
lan4	Network device	A8:80:38:3A:C4:1A	1500	CONFIGURE... RESET
br-guest	Bridge device	-	-	CONFIGURE... RESET
apcli0	Network device	AE:80:38:3A:C4:18	1500	CONFIGURE... RESET
apcli0	Network device	A2:80:38:3A:C4:18	1500	CONFIGURE... RESET
erspan0	Network device	00:00:00:00:00:00	1450	CONFIGURE... RESET
eth0	Network device	2A:C8:89:02:31:16	1500	CONFIGURE... RESET
eth1	Network device	6E:9A:3A:2F:9D:70	1500	CONFIGURE... RESET
lan1	Network device	2A:C8:89:02:31:16	1500	CONFIGURE... RESET
lan3	Network device	2A:C8:89:02:31:16	1500	CONFIGURE... RESET

DHCP and DNS

General Settings

Configure general settings for DHCP and DNS。

5G Router

Dashboard
System
Services
WiFi
Network
Interfaces
DHCP and DNS
Hostnames
Static Routes
SQM QoS
Diagnostics
Firewall
Cellular
Load Balancing
VPN
Logout

REFRESHING

DHCP and DNS

Dnsmasq is a combined DHCP-Server and DNS-Forwarder for NAT firewalls

Server Settings

General Settings
Resolve and Hosts Files
TFTP Settings
Advanced Settings
Static Leases

Domain required ☒

Don't forward DNS-Requests without DNS-Name

Authoritative ☒

This is the only DHCP-Server in the local network

Local server

Local domain specification, Names matching this domain are never forwarded and are resolved from DHCP or hosts files only

Local domain

Local domain suffix appended to DHCP names and hosts file entries

Log queries ☐

Write received DNS requests to syslog

DNS forwardings +

List of DNS servers to forward requests to

Addresses +

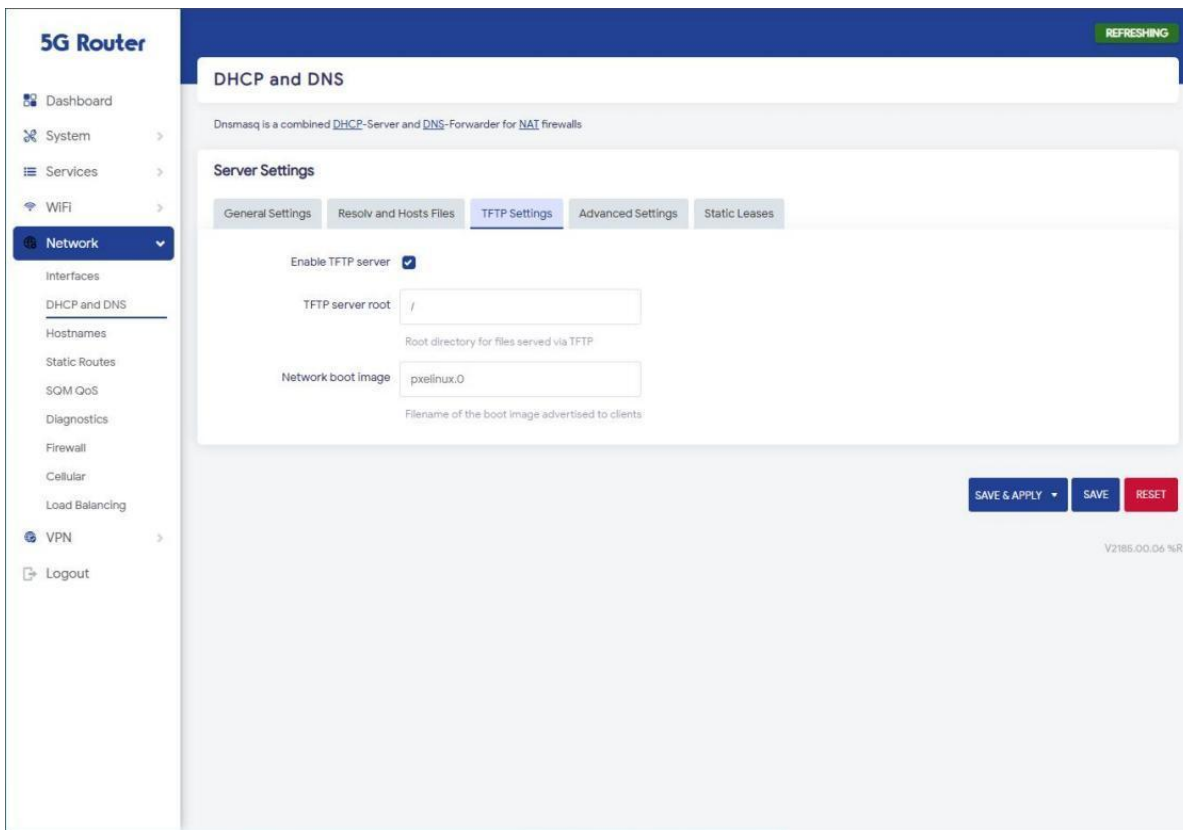
List of domains to force to an IP address.

Rebind protection ☒

Discard upstream RFC1918 responses

TFTP Settings

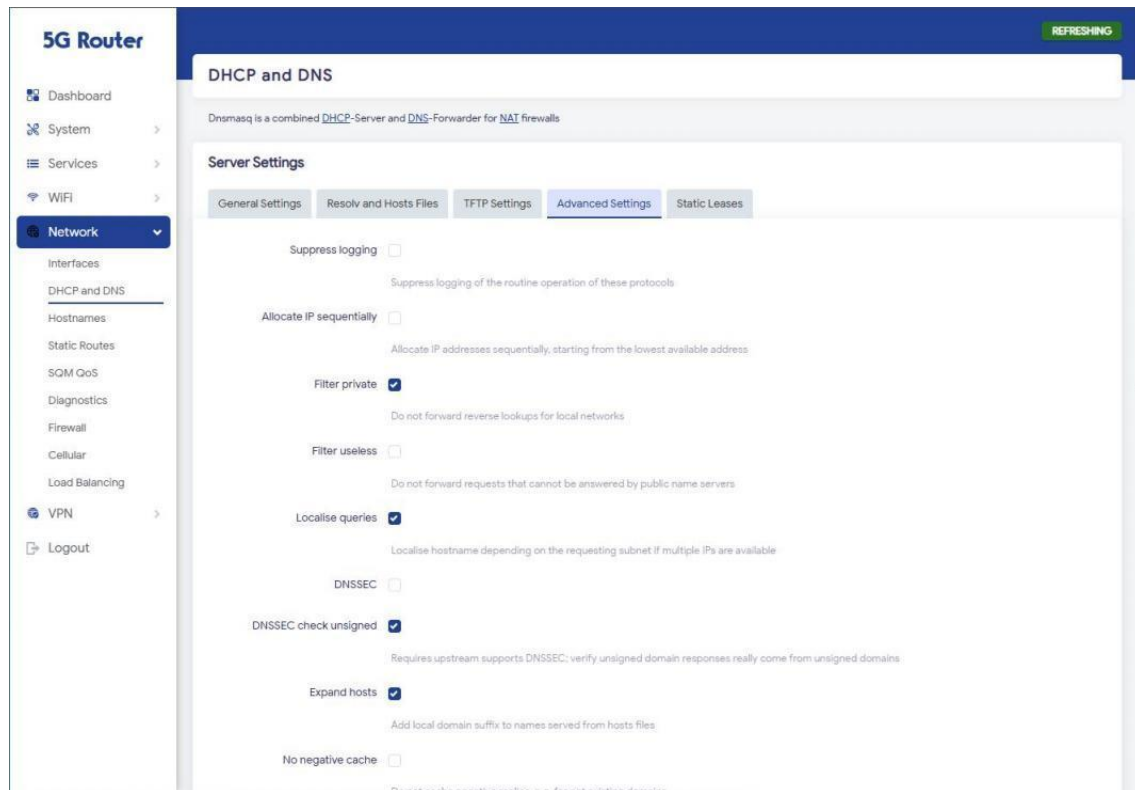
Configure the general settings for the TFTP server.



The screenshot shows the web interface of a 5G Router. The left sidebar contains a navigation menu with the following items: Dashboard, System, Services, WiFi, Network (selected), Interfaces, DHCP and DNS (selected), Hostnames, Static Routes, SQM QoS, Diagnostics, Firewall, Cellular, Load Balancing, VPN, and Logout. The main content area is titled "DHCP and DNS" and includes a "REFRESHING" button in the top right corner. Below the title, a note states: "Dnsmasq is a combined [DHCP](#)-Server and [DNS](#)-Forwarder for [NAT](#) firewalls". The "Server Settings" section is active, with tabs for General Settings, Resolv and Hosts Files, TFTP Settings (selected), Advanced Settings, and Static Leases. The TFTP Settings section contains the following fields: "Enable TFTP server" (checked), "TFTP server root" (set to "/"), "Network boot image" (set to "pxelinux.0"), and a description "Root directory for files served via TFTP" and "Filename of the boot image advertised to clients". At the bottom right, there are three buttons: "SAVE & APPLY", "SAVE", and "RESET". The version number "V2185.00.06 %R" is displayed in the bottom right corner.

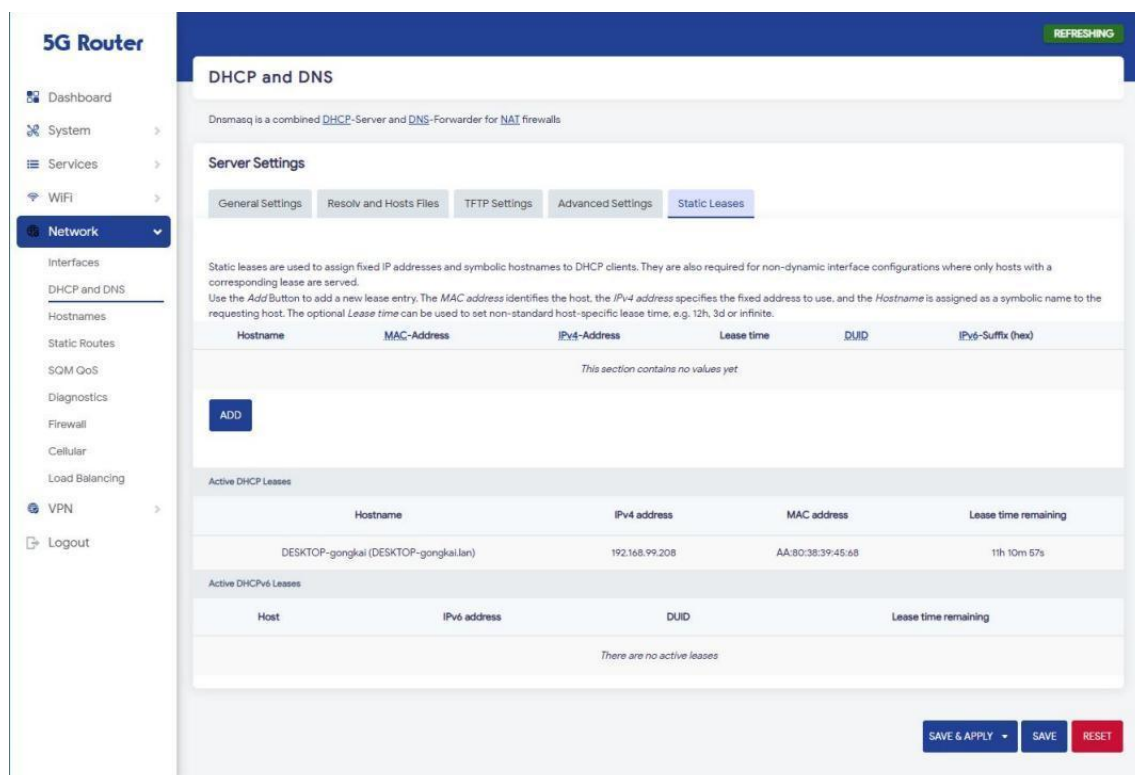
Advanced Settings

Configure advanced settings for DHCP and DNS.



Static Leases

Static leases are used to assign fixed IP addresses and symbolic hostnames to DHCP clients.



Hostnames

Configure the association information between the host name and IP address

5G Router

Dashboard

System

Services

WiFi

Network

Interfaces

DHCP and DNS

Hostnames

Static Routes

SQM QoS

Diagnostics

Firewall

Cellular

Load Balancing

VPN

Logout

Hostnames

Host entries

Hostname	IP address
This section contains no values yet	

ADD

SAVE & APPLY

SAVE

RESET

V2185.00.06 %R

Static Routes

Overview

View local ARP tables and routing tables.

5G Router

Dashboard

System

Services

WiFi

Network

VPN

Logout

Interfaces

DHCP and DNS

Hostnames

Static Routes

SQM QoS

Diagnostics

Firewall

Cellular

Load Balancing

Overview

Setting

Routes

The following rules are currently active on this system.

ARP

IPv4 address	MAC address	Interface
192.168.99.10	AA:80:38:39:45:68	lan
192.168.99.208	AA:80:38:39:45:68	lan
10.79.87.1	42:86:3B:27:A6:FA	wwan

Active IPv4-Routes

Network	Target	IPv4 gateway	Metric	Table	Protocol
wwan	0.0.0.0/0	10.79.87.1	4	main	static
wwan	10.79.87.0/24	-	4	main	static
lan	192.168.99.0/24	-	0	main	kernel

IPv6 Neighbours

IPv6 address	MAC address	Interface
--------------	-------------	-----------

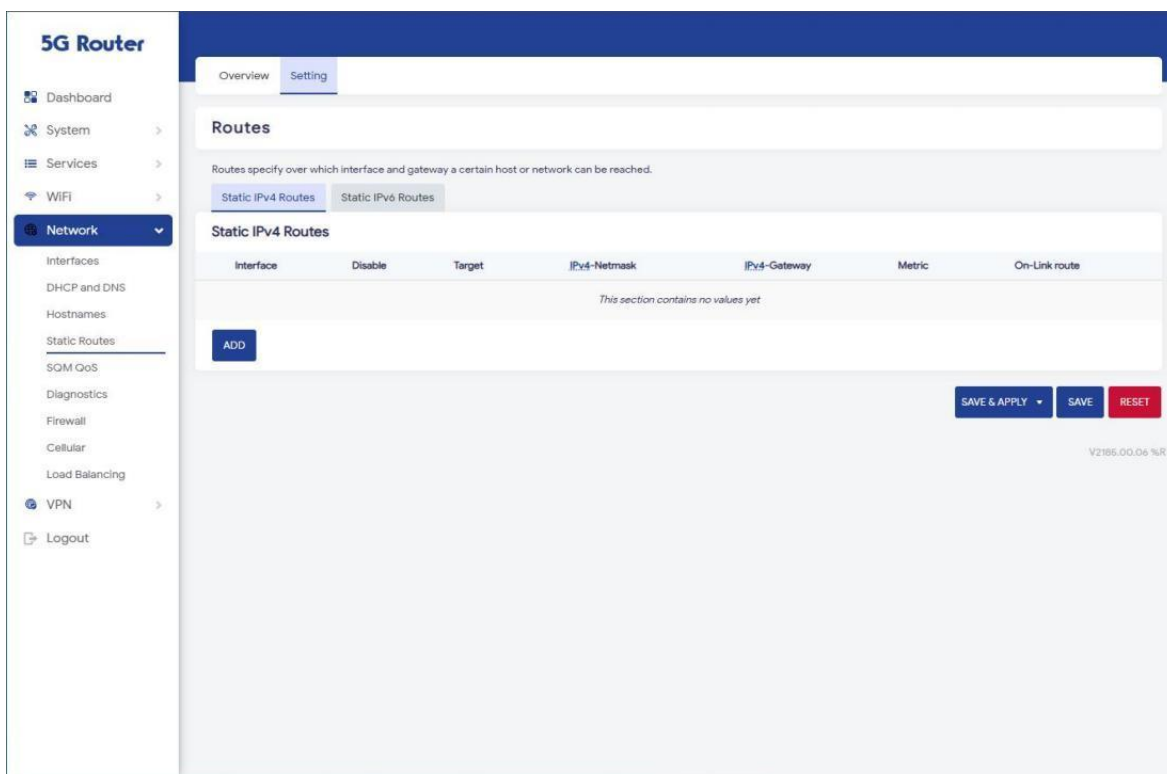
Active IPv6-Routes

Network	Target	Source	Metric	Table	Protocol
---------	--------	--------	--------	-------	----------

Setting

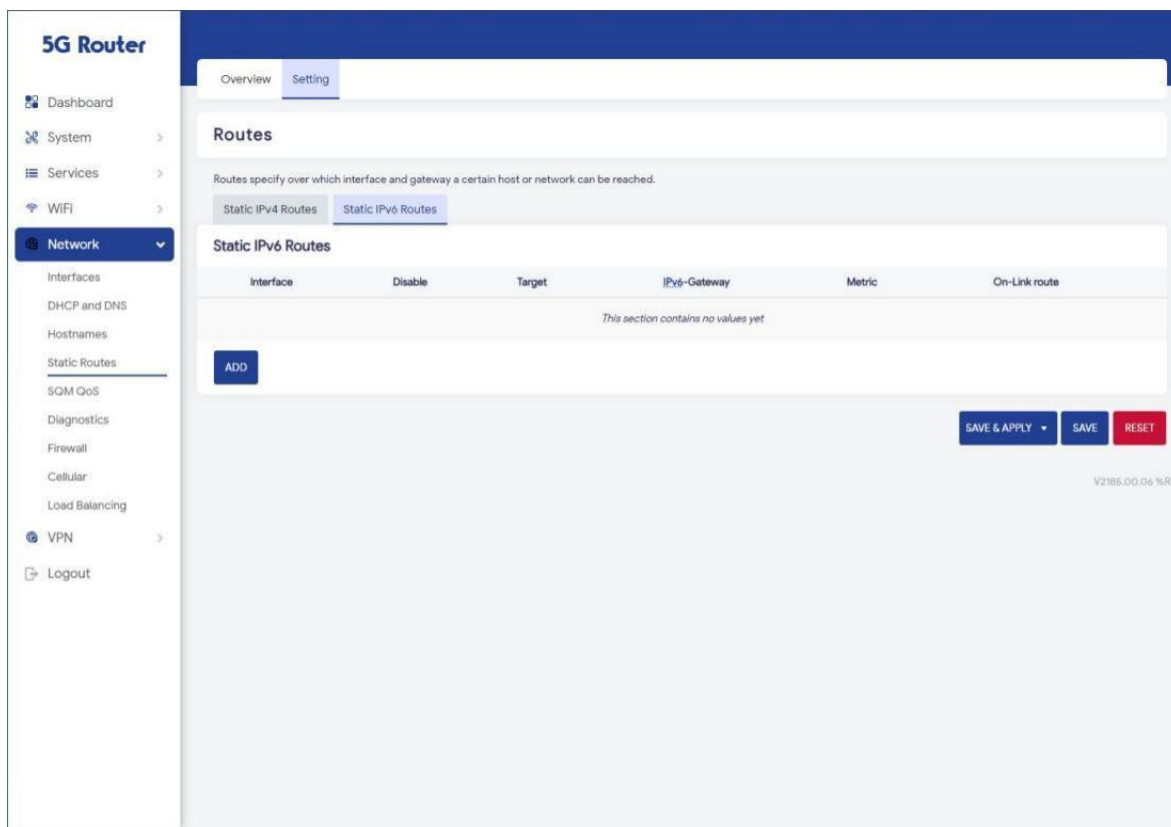
Static IPv4 Routes

Static IPv4 routes specify over which interface and gateway a certain host or network can be reached.



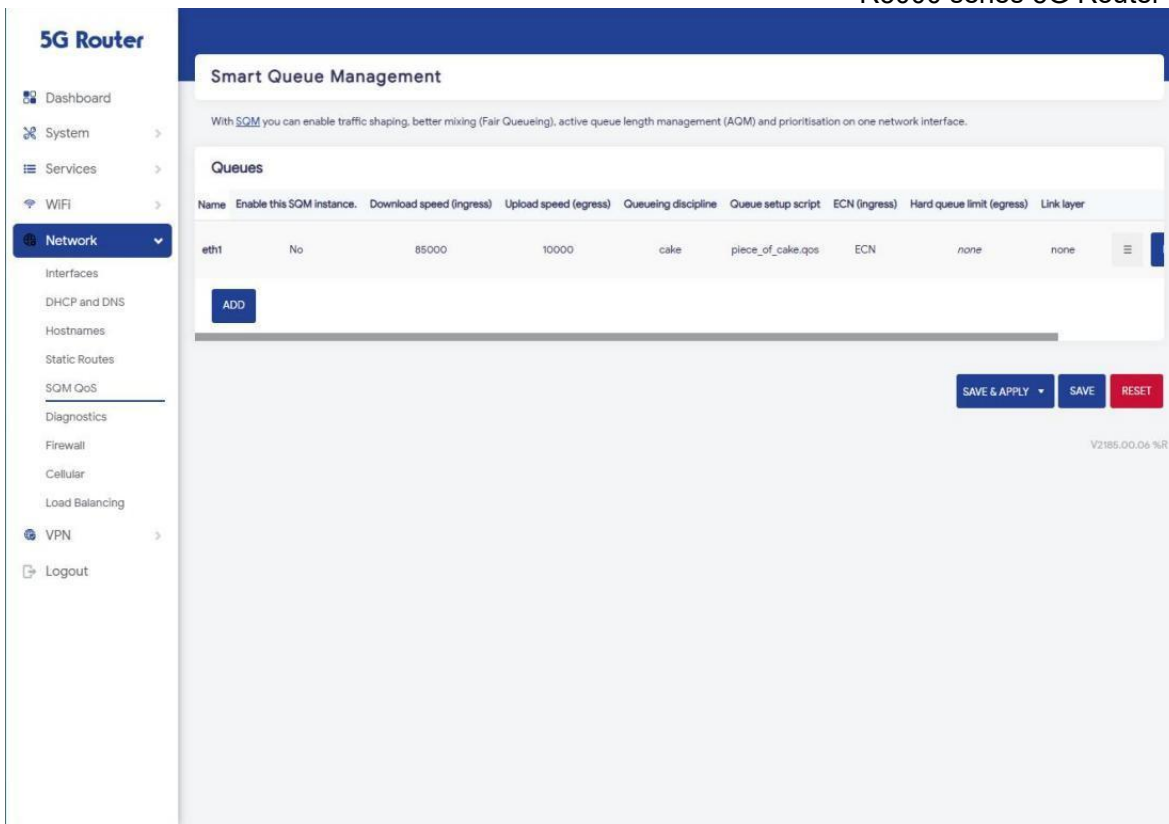
Static IPv6 Routes

Static IPv6 routes specify over which interface and gateway a certain host or network can be reached



SQM QoS

Configure the priority of network traffic.



Diagnostics

You can determine the network status of the router through this page.

5G Router

Dashboard
System
Services
WIFI
Network
Interfaces
DHCP and DNS
Hostnames
Static Routes
SQM QoS
Diagnostics
Firewall
Cellular
Load Balancing
VPN
Logout

Network Utilities

IPv4 PING
 IPv4 TRACEROUTE
 NSLOOKUP

PING openwrt.org (64.226.122.113): 56 data bytes

64 bytes from 64.226.122.113: seq=0 ttl=42 time=363.074 ms

64 bytes from 64.226.122.113: seq=2 ttl=42 time=281.982 ms

64 bytes from 64.226.122.113: seq=3 ttl=43 time=401.857 ms

64 bytes from 64.226.122.113: seq=4 ttl=43 time=361.624 ms

--- openwrt.org ping statistics ---

5 packets transmitted, 4 packets received, 20% packet loss

round-trip min/avg/max = 281.982/352.134/401.857 ms

V2185.00.06 %R

5G Router

Dashboard
System
Services
WIFI
Network
Interfaces
DHCP and DNS
Hostnames
Static Routes
SQM QoS
Diagnostics
Firewall
Cellular
Load Balancing
VPN
Logout

Network Utilities

IPv4 PING
 IPv4 TRACEROUTE
 NSLOOKUP

traceroute to openwrt.org (64.226.122.113), 30 hops max, 46 byte packets

1 10.79.87.1 2.886 ms

2 *

3 172.21.1.1 29.285 ms

4 *

5 183.233.75.153 36.635 ms

6 221.183.146.177 29.774 ms

7 221.183.167.38 43.925 ms

8 221.183.92.214 36.402 ms

9 221.183.92.198 36.271 ms

10 223.120.14.253 237.937 ms

11 223.120.10.226 320.663 ms

12 195.66.231.145 318.742 ms

13 *

14 *

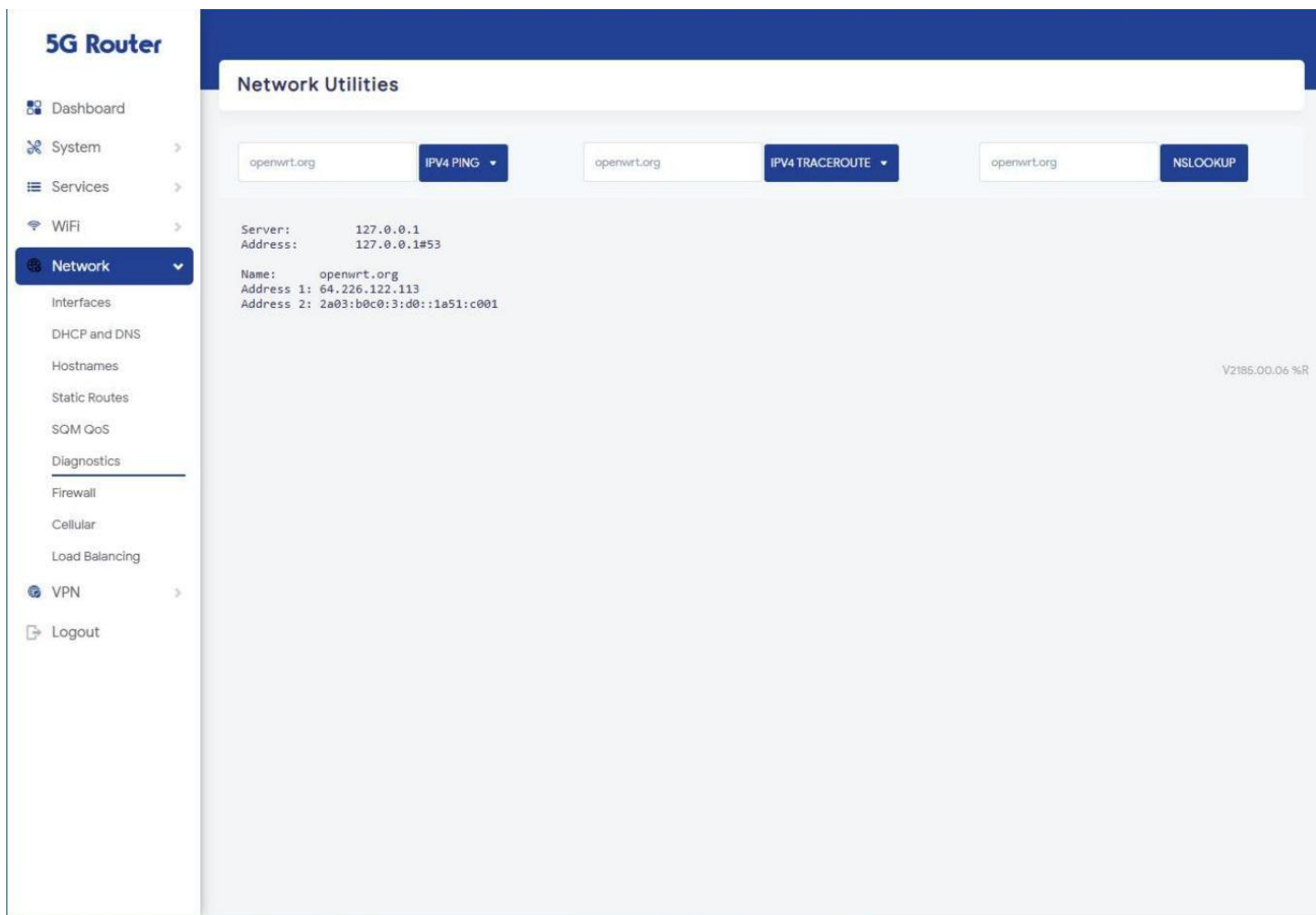
15 *

16 *

17 *

18 64.226.122.113 273.903 ms

V2185.00.06 %R



Firewall

Status

IPv4 Firewall
Display IPv4 firewall rules

5G Router

Dashboard

System

Services

WiFi

Network

VPN

Logout

Interfaces

DHCP and DNS

Hostnames

Static Routes

SQM QoS

Diagnostics

Firewall

Cellular

Load Balancing

Status

General Settings

Port Forwards

Traffic Rules

NAT Rules

Custom Rules

REFRESHING

Firewall Status

IPv4 Firewall

IPv6 Firewall

HIDE EMPTY CHAINS

SHOW RAW COUNTERS

RESET COUNTERS

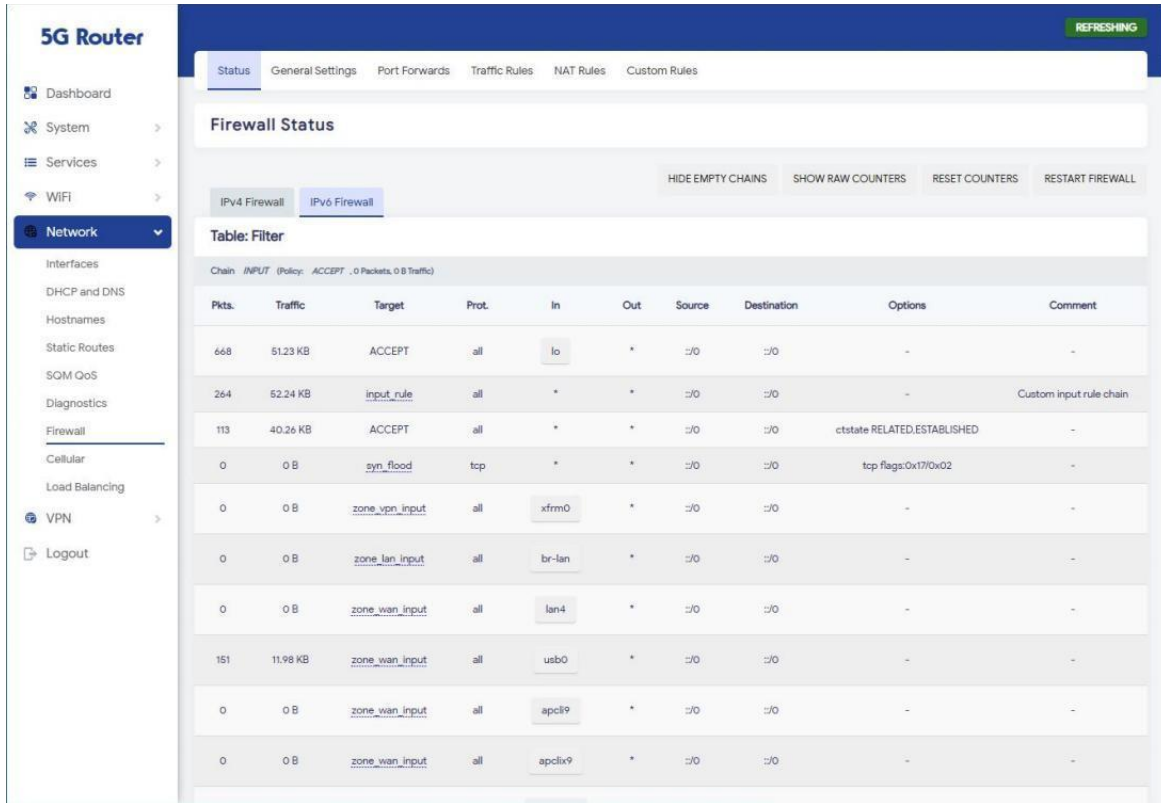
RESTART FIREWALL

Table: Filter

Chain INPUT (Policy: ACCEPT, 0 Packets, 0 B Traffic)

Pkts.	Traffic	Target	Prot.	In	Out	Source	Destination	Options	Comment
4.19 K	307.85 KB	ACCEPT	all	lo	*	0.0.0.0/0	0.0.0.0/0	-	-
10.57 K	1.76 MB	input_rule	all	*	*	0.0.0.0/0	0.0.0.0/0	-	Custom input rule chain
9.89 K	1.53 MB	ACCEPT	all	*	*	0.0.0.0/0	0.0.0.0/0	ctstate RELATED,ESTABLISHED	-
83	4.32 KB	syn_flood	tcp	*	*	0.0.0.0/0	0.0.0.0/0	tcp flags:0x17/0x02	-
0	0 B	zone_vpn_input	all	xfrm0	*	0.0.0.0/0	0.0.0.0/0	-	-
675	233.35 KB	zone_lan_input	all	br-lan	*	0.0.0.0/0	0.0.0.0/0	-	-
0	0 B	zone_wan_input	all	lan4	*	0.0.0.0/0	0.0.0.0/0	-	-
10	400 B	zone_wan_input	all	usb0	*	0.0.0.0/0	0.0.0.0/0	-	-
0	0 B	zone_wan_input	all	apcli9	*	0.0.0.0/0	0.0.0.0/0	-	-
0	0 B	zone_wan_input	all	apcli9	*	0.0.0.0/0	0.0.0.0/0	-	-

IPv6 Firewall
Display IPv6 firewall rules.



5G Router

Dashboard System Services WiFi **Network** VPN Logout

Interfaces DHCP and DNS Hostnames Static Routes SQM QoS Diagnostics **Firewall** Cellular Load Balancing

General Settings Port Forwards Traffic Rules NAT Rules Custom Rules

Firewall Status

HIDE EMPTY CHAINS SHOW RAW COUNTERS RESET COUNTERS RESTART FIREWALL

IPv4 Firewall IPv6 Firewall

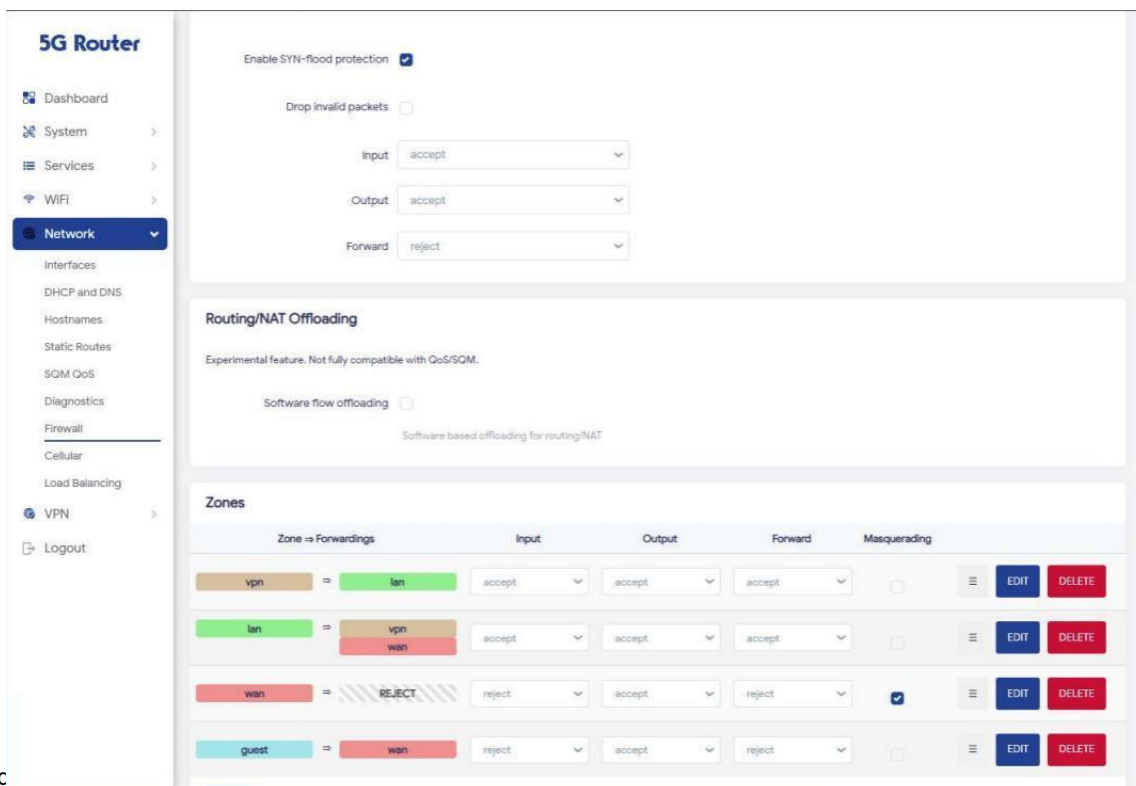
Table: Filter

Chain INPUT (Policy: ACCEPT, 0 B Traffic)

Pkts.	Traffic	Target	Prot.	In	Out	Source	Destination	Options	Comment
668	51.23 KB	ACCEPT	all	lo	*	:::0	:::0	-	-
264	52.24 KB	input_rule	all	*	*	:::0	:::0	-	Custom input rule chain
113	40.26 KB	ACCEPT	all	*	*	:::0	:::0	ctstate RELATED,ESTABLISHED	-
0	0 B	syn_flood	tcp	*	*	:::0	:::0	top flags:0x17/0x02	-
0	0 B	zone_vpn_input	all	xfrm0	*	:::0	:::0	-	-
0	0 B	zone_lan_input	all	br-lan	*	:::0	:::0	-	-
0	0 B	zone_wan_input	all	lan4	*	:::0	:::0	-	-
151	11.98 KB	zone_wan_input	all	usb0	*	:::0	:::0	-	-
0	0 B	zone_vpn_input	all	apcli9	*	:::0	:::0	-	-
0	0 B	zone_wan_input	all	apcli9	*	:::0	:::0	-	-

General Settings

The firewall creates zones over your network interfaces to control network traffic flow



5G Router

Dashboard System Services WiFi **Network** VPN Logout

Interfaces DHCP and DNS Hostnames Static Routes SQM QoS Diagnostics **Firewall** Cellular Load Balancing

Enable SYN-flood protection ☒

Drop invalid packets ☐

Input: accept

Output: accept

Forward: reject

Routing/NAT Offloading

Experimental feature. Not fully compatible with QoS/SQM.

Software flow offloading ☐

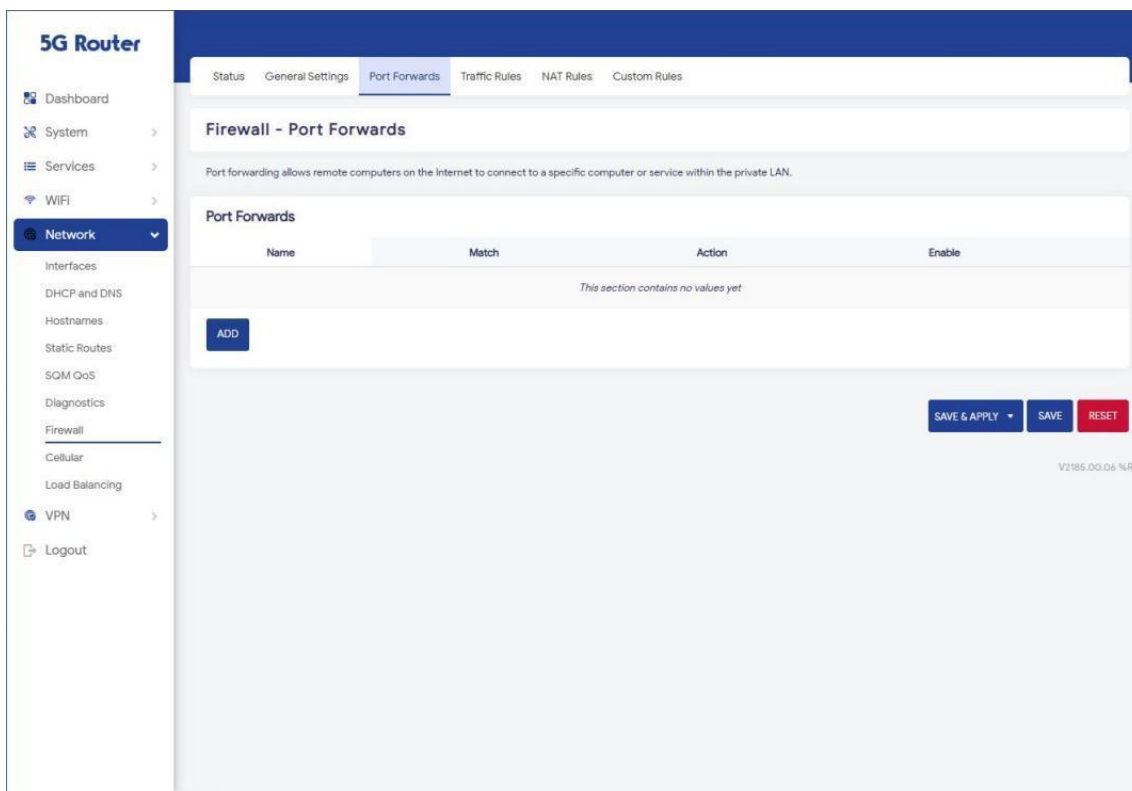
Software based offloading for routing/NAT

Zones

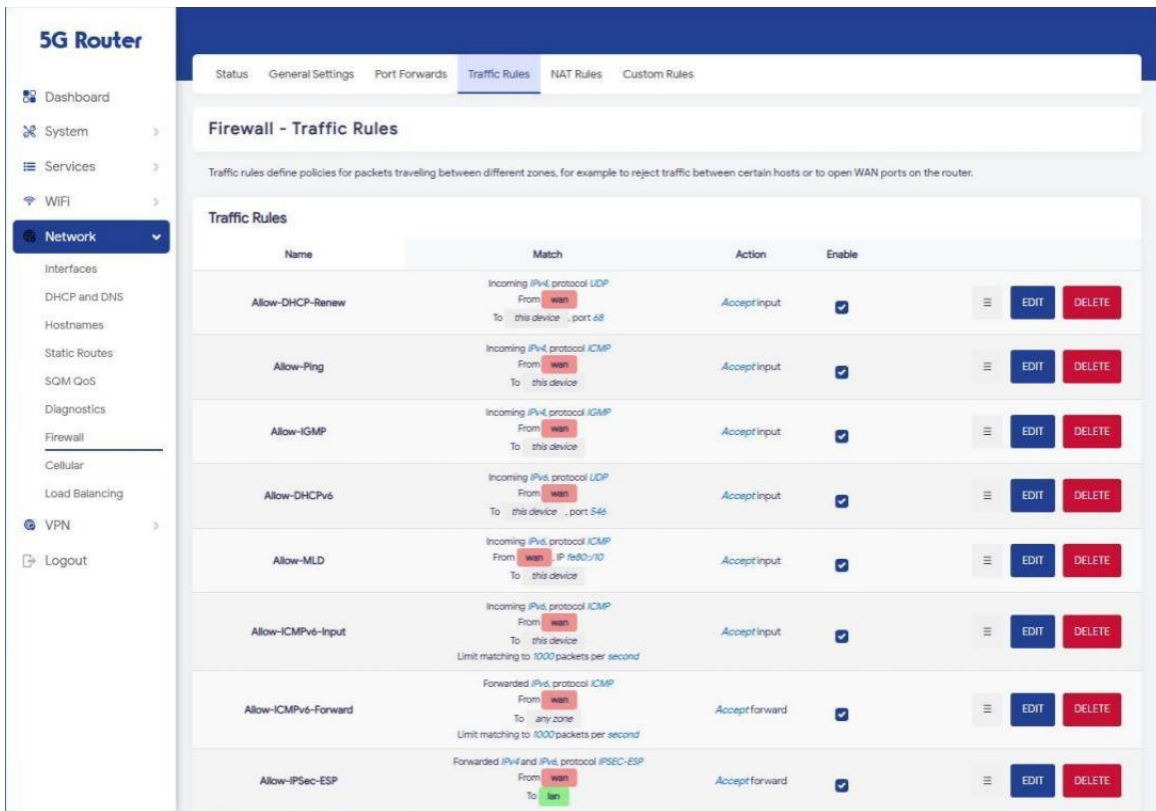
Zone	Forwardings	Input	Output	Forward	Masquerading
vpn	lan	accept	accept	accept	☐
lan	vpn	accept	accept	accept	☐
wan	REJECT	reject	accept	reject	☒
quest	wan	reject	accept	reject	☐

Port Forwards

Port forwarding allows remote computers on the Internet to connect to a specific computer or service within the private LAN.



Traffic Rules



5G Router

Dashboard System Services WiFi **Network** VPN Logout

Interfaces DHCP and DNS Hostnames Static Routes SQM QoS Diagnostics Firewall Cellular Load Balancing

VPN

Logout

Status General Settings Port Forwards **Traffic Rules** NAT Rules Custom Rules

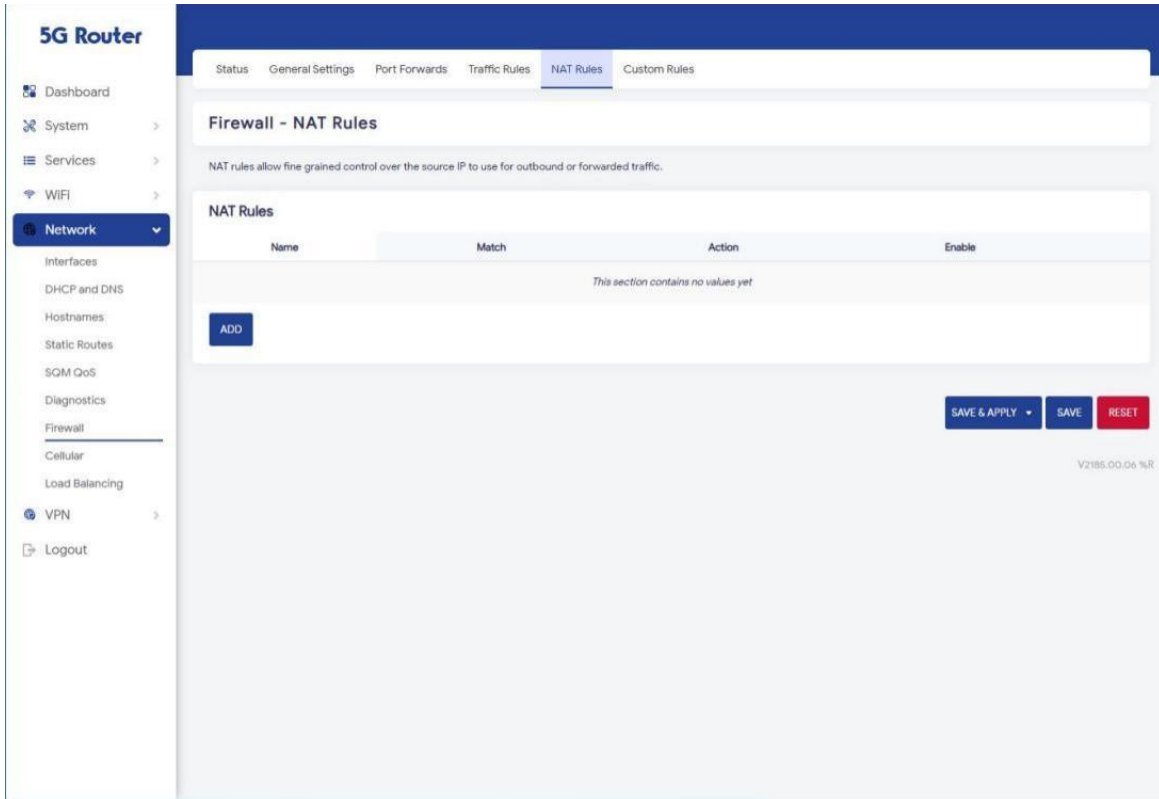
Firewall - Traffic Rules

Traffic rules define policies for packets traveling between different zones, for example to reject traffic between certain hosts or to open WAN ports on the router.

Name	Match	Action	Enable
Allow-DHCP-Renew	Incoming IPv4, protocol UDP From wan To this device, port 68	Accept input	☒
Allow-Ping	Incoming IPv4, protocol ICMP From wan To this device	Accept input	☒
Allow-IGMP	Incoming IPv4, protocol IGMP From wan To this device	Accept input	☒
Allow-DHCPv6	Incoming IPv6, protocol UDP From wan To this device, port 546	Accept input	☒
Allow-MLD	Incoming IPv6, protocol ICMP From wan, IP fe80::10 To this device	Accept input	☒
Allow-ICMPv6-Input	Incoming IPv6, protocol ICMP From wan To this device Limit matching to 1000/packets per second	Accept input	☒
Allow-ICMPv6-Forward	Forwarded IPv6, protocol ICMP From wan To any zone Limit matching to 1000/packets per second	Accept forward	☒
Allow-IPSec-ESP	Forwarded IPv4 and IPv6, protocol IPSec-ESP From wan To lan	Accept forward	☒

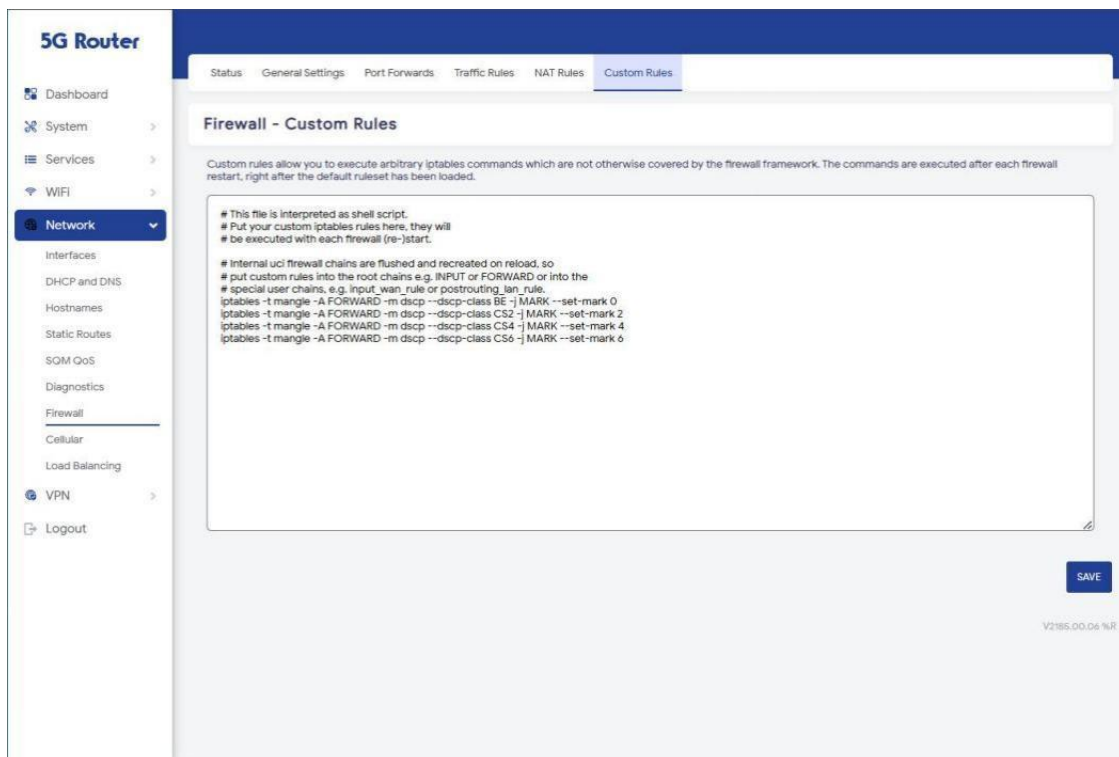
NAT Rules

NAT rules allow fine grained control over the source IP to use for outbound or forwarded traffic.



Custom Rules

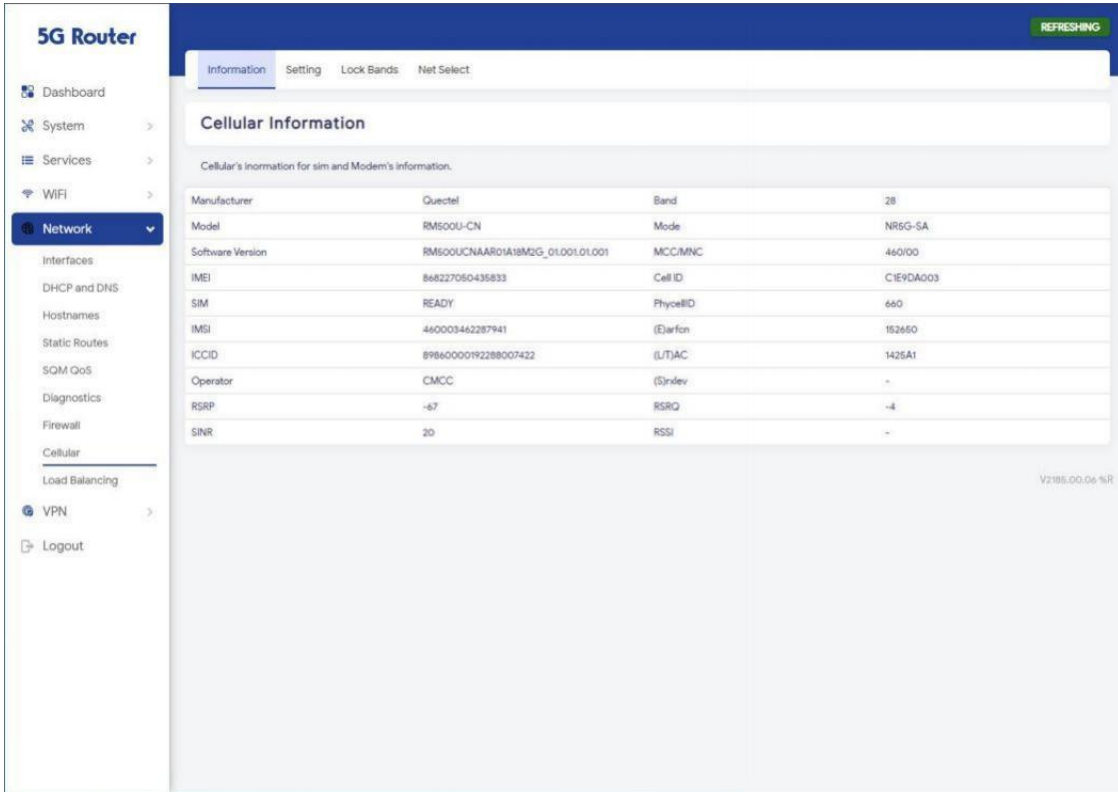
Custom rules allow you to execute arbitrary iptables commands which are not otherwise covered by the firewall framework.



Cellular

Information

For sim and Modem's information.



The screenshot displays the '5G Router' web interface. On the left is a sidebar menu with options: Dashboard, System, Services, WiFi, Network (selected), VPN, and Logout. The 'Network' menu is expanded, showing sub-items: Interfaces, DHCP and DNS, Hostnames, Static Routes, SQM QoS, Diagnostics, Firewall, Cellular (selected), and Load Balancing. The main content area has a top navigation bar with 'Information', 'Setting', 'Lock Bands', and 'Net Select'. Below this is a 'Cellular Information' section with a 'REFRESHING' button. A table provides cellular details for the SIM and Modem.

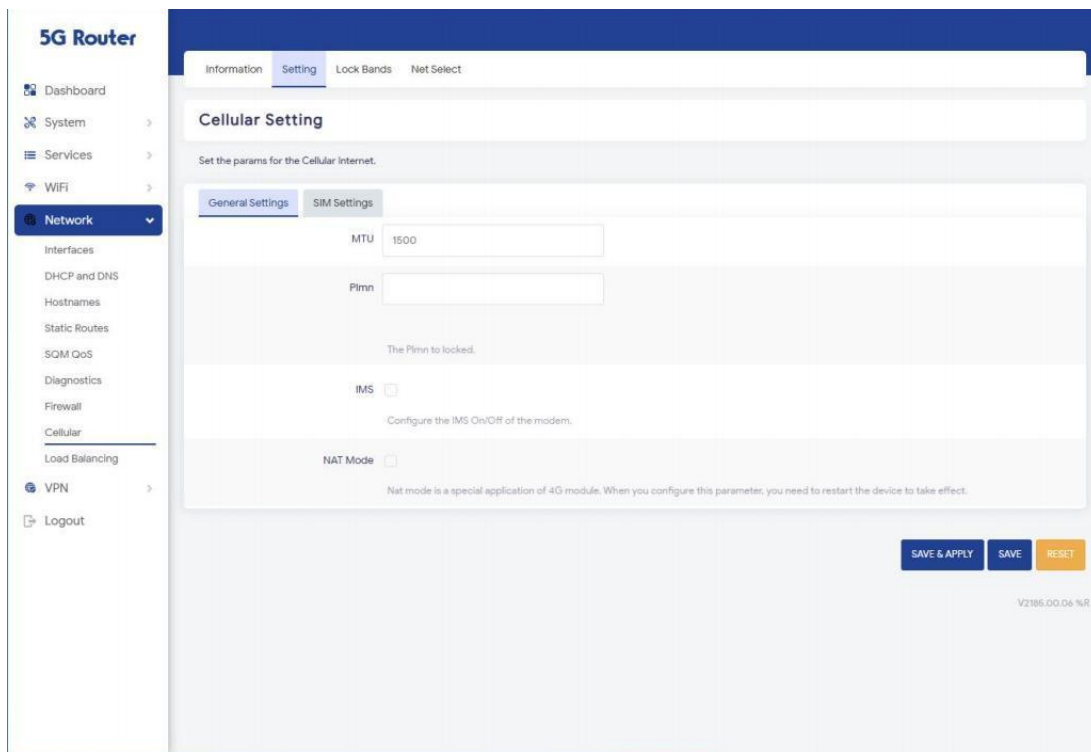
Cellular's information for sim and Modem's information.			
Manufacturer	Quectel	Band	28
Model	RM500U-CN	Mode	NR5G-SA
Software Version	RM500UCNAR01A18M2G_01.001.01.001	MCC/MNC	460/00
IMEI	868227050435833	Cell ID	C1E9DA003
SIM	READY	PhyCellID	660
IMSI	460003462287941	(E)arfcn	152650
ICCID	89860000192288007422	(L)TAC	1425A1
Operator	CMCC	(S)inlev	-
RSRP	-67	RSRQ	-4
SINR	20	RSSI	-

V2185.00.04 %R

Setting

General Settings

Configure the general settings for the cellular.



SIM Settings

Configure the general settings for the SIM.

5G Router

Dashboard
System
Services
WiFi
Network
Interfaces
DHCP and DNS
Hostnames
Static Routes
SQM QoS
Diagnostics
Firewall
Cellular
Load Balancing
VPN
Logout

InformationSettingLock BandsNet Select

Cellular Setting

Set the params for the Cellular Internet.

General SettingsSIM Settings

APNAuto
PIN
PDP Context1
PDP TypeIPv4/v6
Authentication TypeNONE

SAVE & APPLYSAVERESET

V2188.00.06 %R

Lock Bands

Cellular's information for sim and Modem's information.

5G Router

Dashboard
System
Services
WiFi
Network
Interfaces
DHCP and DNS
Hostnames
Static Routes
SQM QoS
Diagnostics
Firewall
Cellular
Load Balancing
VPN
Logout

InformationSettingLock BandsNet Select

Lock Bands

Lock The Cellular Modem's band and frequency

NR5G Bands
Band 1
Band 28
Band 41
Band 77
Band 78
Band 79

LTE Bands
Band 1
Band 2
Band 3
Band 5
Band 7
Band 8
Band 20
Band 28
Band 34
Band 38
Band 39
Band 40
Band 41

Lock Cell Switch

Current Lock (E)arfcn152650

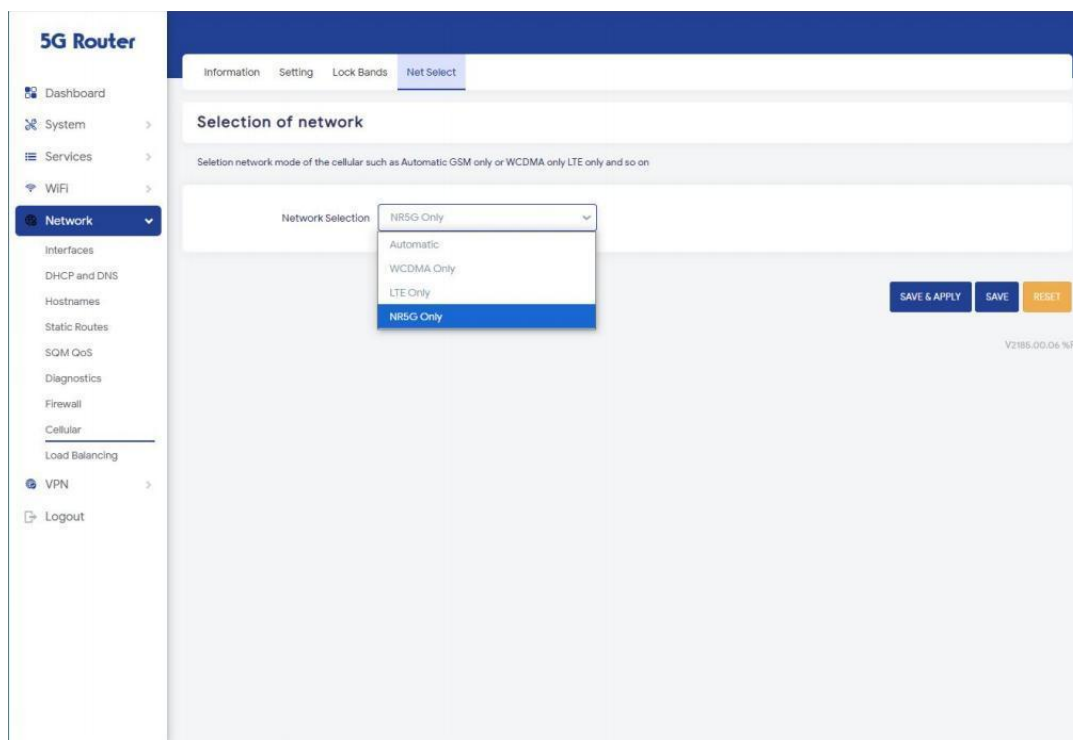
Current Lock PCID660

SAVE & APPLYSAVERESET

V2188.00.06 %R

Net Select

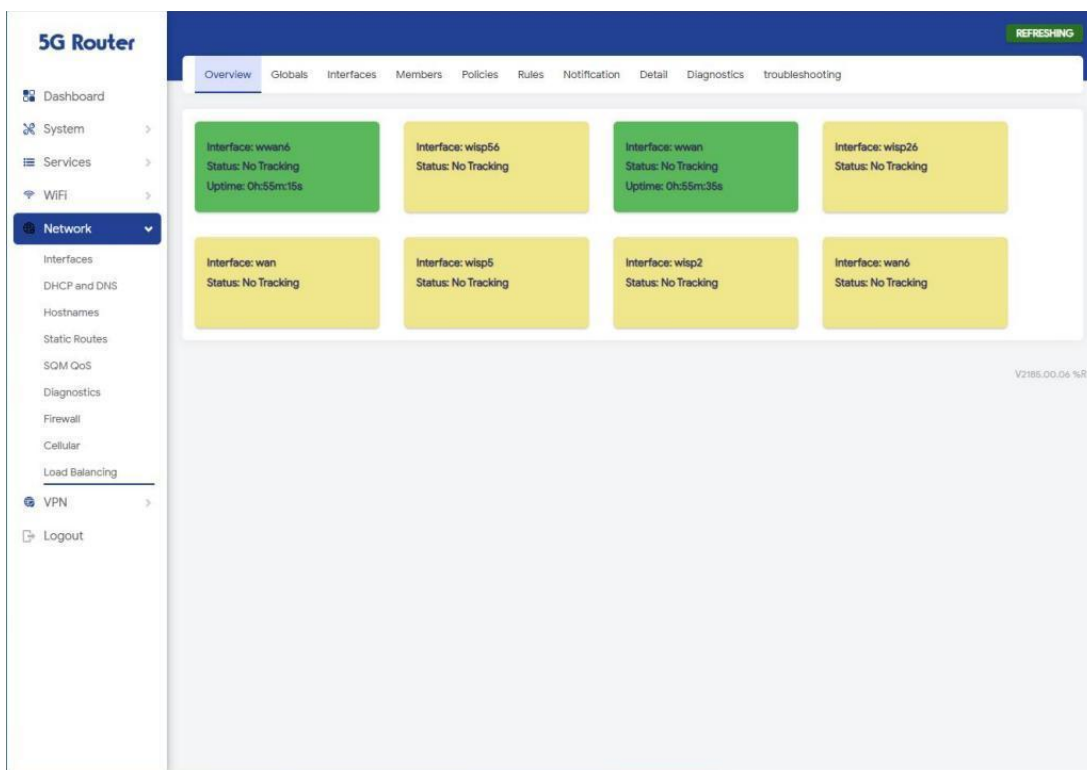
Select network mode of the cellular such as Automatic or WCDMA only or LTE only and NR5G only.



Load Balancing

Overview

Display the gateway exit interface activation status



Interfaces

View and configure general settings for the load balancing interface.

5G Router

- Dashboard
- System
- Services
- WiFi
- Network**
 - Interfaces
 - DHCP and DNS
 - Hostnames
 - Static Routes
 - SQM QoS
 - Diagnostics
 - Firewall
 - Cellular
 - Load Balancing
- VPN
- Logout

Overview Globals Interfaces Members Policies Rules Notification Detail Diagnostics troubleshooting

MWAN - Interfaces

There are currently 8 of 60 supported interfaces configured
WARNING: Interface wwan6 has no default route in the main routing table
WARNING: Interface wwan6 has a duplicate metric 4 configured
WARNING: Interface wisp64 has no default route in the main routing table
WARNING: Interface wisp64 has a duplicate metric 3 configured
WARNING: Interface wisp26 has no default route in the main routing table
WARNING: Interface wisp26 has a duplicate metric 2 configured
WARNING: Interface wan has no default route in the main routing table
WARNING: Interface wisp6 has no default route in the main routing table
WARNING: Interface wisp2 has no default route in the main routing table
WARNING: Interface wan6 has no default route in the main routing table

mwan3 requires that all interfaces have a unique metric configured in /etc/config/network
Names must match the interface name found in /etc/config/network
Names may contain characters A-Z, a-z, 0-9, _ and no spaces
Interfaces may not share the same name as configured members, policies or rules

Name	Enabled	Tracking method	Tracking reliability	Ping interval	Interface down	Interface up	Metric		
wan	No	ping	2	10s	5	2	—	EDIT	DELETE
wan6	No	ping	2	10s	5	2	—	EDIT	DELETE
wisp2	No	ping	2	10s	5	2	2	EDIT	DELETE
wisp26	No	ping	2	10s	5	2	2	EDIT	DELETE
wisp6	No	ping	2	10s	5	2	3	EDIT	DELETE
wisp66	No	ping	2	10s	5	2	3	EDIT	DELETE

Members

View and configure the number of hops and weights for load balancing member.

5G Router

- Dashboard
- System
- Services
- WiFi
- Network**
 - Interfaces
 - DHCP and DNS
 - Hostnames
 - Static Routes
 - SQM QoS
 - Diagnostics
 - Firewall
 - Cellular
 - Load Balancing
- VPN
- Logout

Overview Globals Interfaces Members Policies Rules Notification Detail Diagnostics troubleshooting

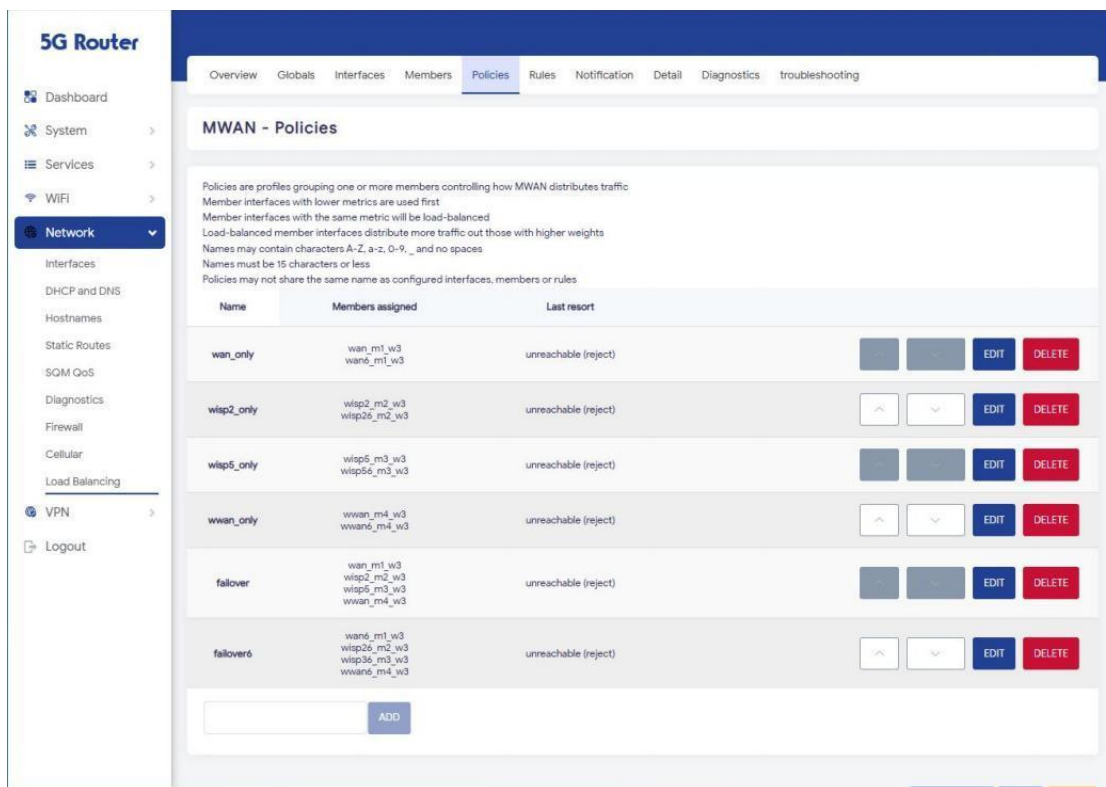
MWAN - Members

Members are profiles attaching a metric and weight to an MWAN interface
Names may contain characters A-Z, a-z, 0-9, _ and no spaces
Members may not share the same name as configured interfaces, policies or rules

Name	Interface	Metric	Weight				
wan_m1_w3	wan	1	3			EDIT	DELETE
wisp2_m2_w3	wisp2	2	3	^	v	EDIT	DELETE
wisp6_m3_w3	wisp6	3	3			EDIT	DELETE
wwan_m4_w3	wwan	4	3	^	v	EDIT	DELETE
wan6_m1_w3	wan6	1	3			EDIT	DELETE
wisp26_m2_w3	wisp26	2	3	^	v	EDIT	DELETE
wisp66_m3_w3	wisp66	3	3			EDIT	DELETE
wwan6_m4_w3	wwan6	4	3	^	v	EDIT	DELETE

Policies

View and configure traffic policies for load balancing members.



5G Router

Overview | Globals | Interfaces | Members | **Policies** | Rules | Notification | Detail | Diagnostics | troubleshooting

MWAN - Policies

Policies are profiles grouping one or more members controlling how MWAN distributes traffic
 Member interfaces with lower metrics are used first
 Member interfaces with the same metric will be load-balanced
 Load-balanced member interfaces distribute more traffic out those with higher weights
 Names may contain characters A-Z, a-z, 0-9, _ and no spaces
 Names must be 15 characters or less
 Policies may not share the same name as configured interfaces, members or rules

Name	Members assigned	Last resort			EDIT	DELETE
wan_only	wan_m1_w3 wan6_m1_w3	unreachable (reject)				
wisp2_only	wisp2_m2_w3 wisp26_m2_w3	unreachable (reject)	^	v	EDIT	DELETE
wisp5_only	wisp5_m3_w3 wisp56_m3_w3	unreachable (reject)			EDIT	DELETE
wwan_only	wwan_m4_w3 wwan6_m4_w3	unreachable (reject)	^	v	EDIT	DELETE
fallover	wan_m1_w3 wisp2_m2_w3 wisp5_m3_w3 wwan_m4_w3	unreachable (reject)			EDIT	DELETE
fallover6	wan6_m1_w3 wisp26_m2_w3 wisp36_m3_w3 wwan6_m4_w3	unreachable (reject)	^	v	EDIT	DELETE

ADD

Rules

Rules specify which traffic will use a particular policy.

5G Router

- Dashboard
- System
- Services
- WiFi
- Network**
 - Interfaces
 - DHCP and DNS
 - Hostnames
 - Static Routes
 - SOM QoS
 - Diagnostics
 - Firewall
 - Cellular
 - Load Balancing
 - VPN
 - Logout

Overview
Globals
Interfaces
Members
Policies
Rules
Notification
Detail
Diagnostics
troubleshooting

MWAN - Rules

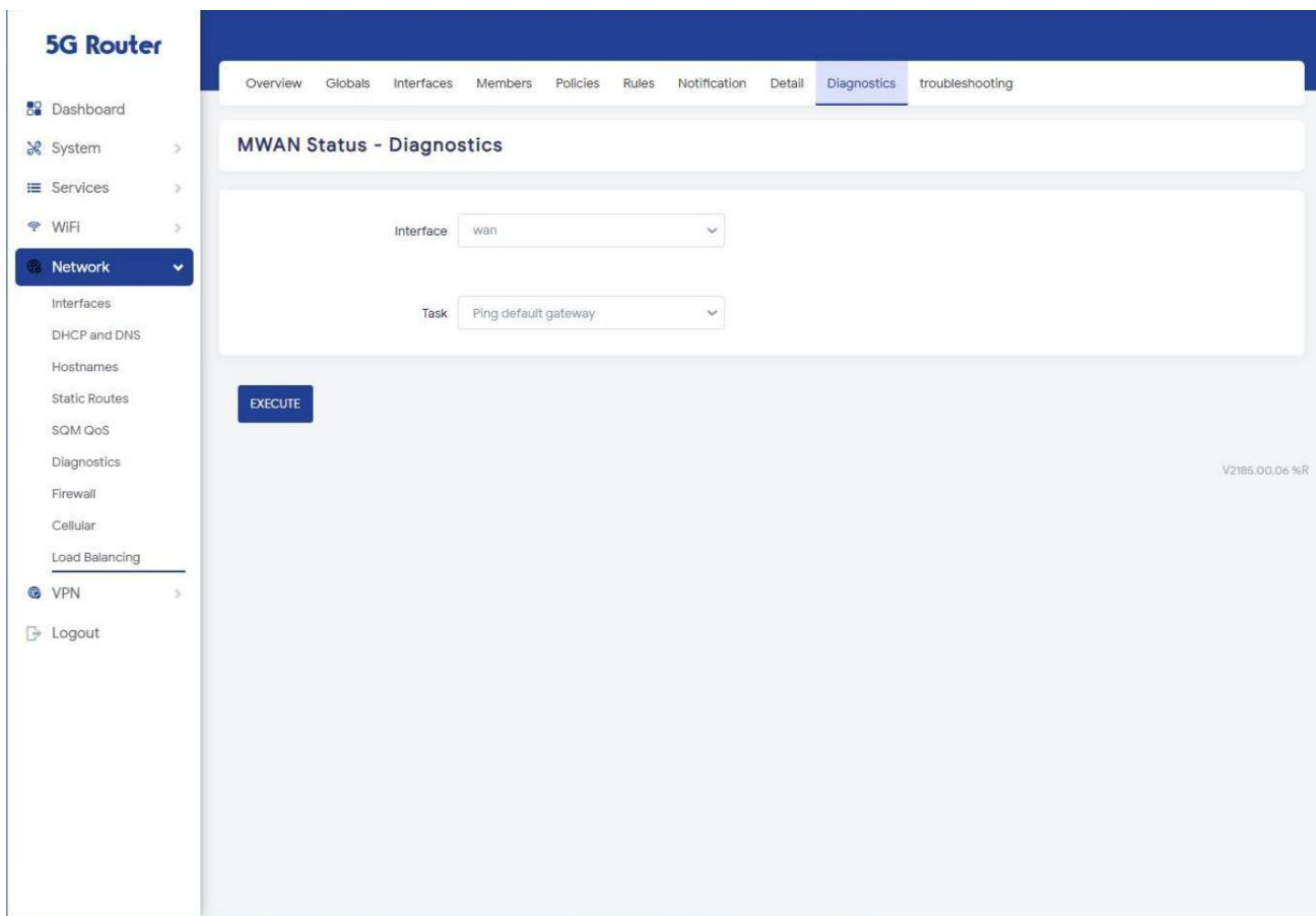
Rules specify which traffic will use a particular MWAN policy
Rules are based on IP address, port or protocol
Rules are matched from top to bottom
Rules below a matching rule are ignored
Traffic not matching any rule is routed using the main routing table
Traffic destined for known (other than default) networks is handled by the main routing table
Traffic matching a rule, but all WAN interfaces for that policy are down will be blackholed
Names may contain characters A-Z, a-z, 0-9, _ and no spaces
Rules may not share the same name as configured interfaces, members or policies

Name	Source address	Source port	Destination address	Destination port	Protocol	Policy assigned			EDIT	DELETE
default_rule_v4	—	—	0.0.0.0/0	—	all	failover	⬆	⬇		
default_rule_v6	—	—	:::0	—	all	failover6	⬆	⬇		

V2185.00.06 %R

Diagnostics

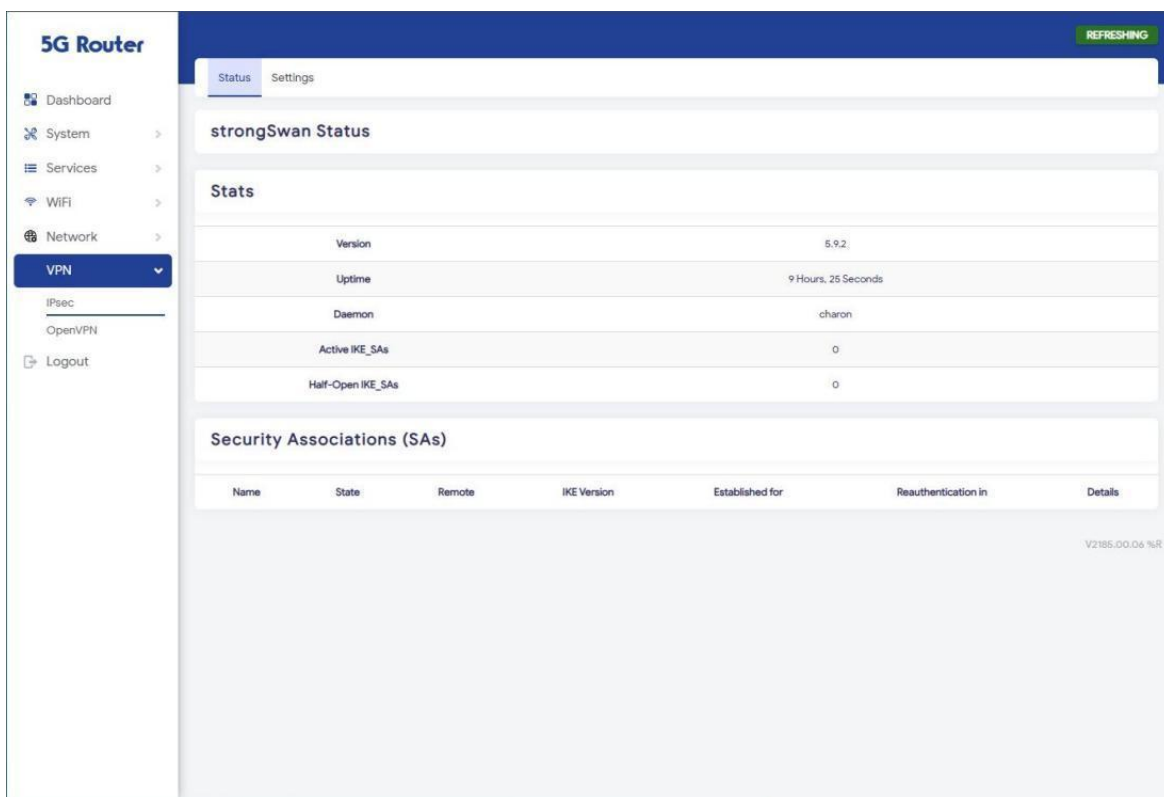
Determine the network status of the load balancing interface.



VPN Functions

IPSec

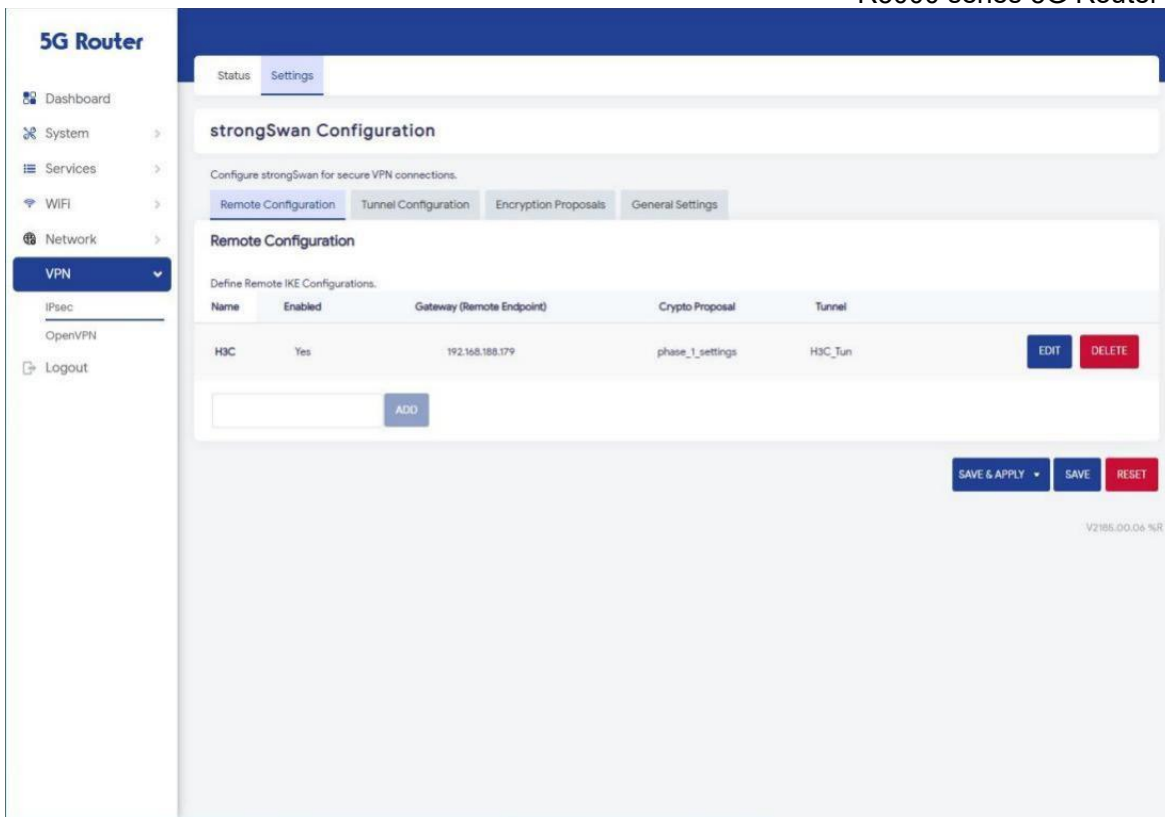
Check the status of IPSec



Settings

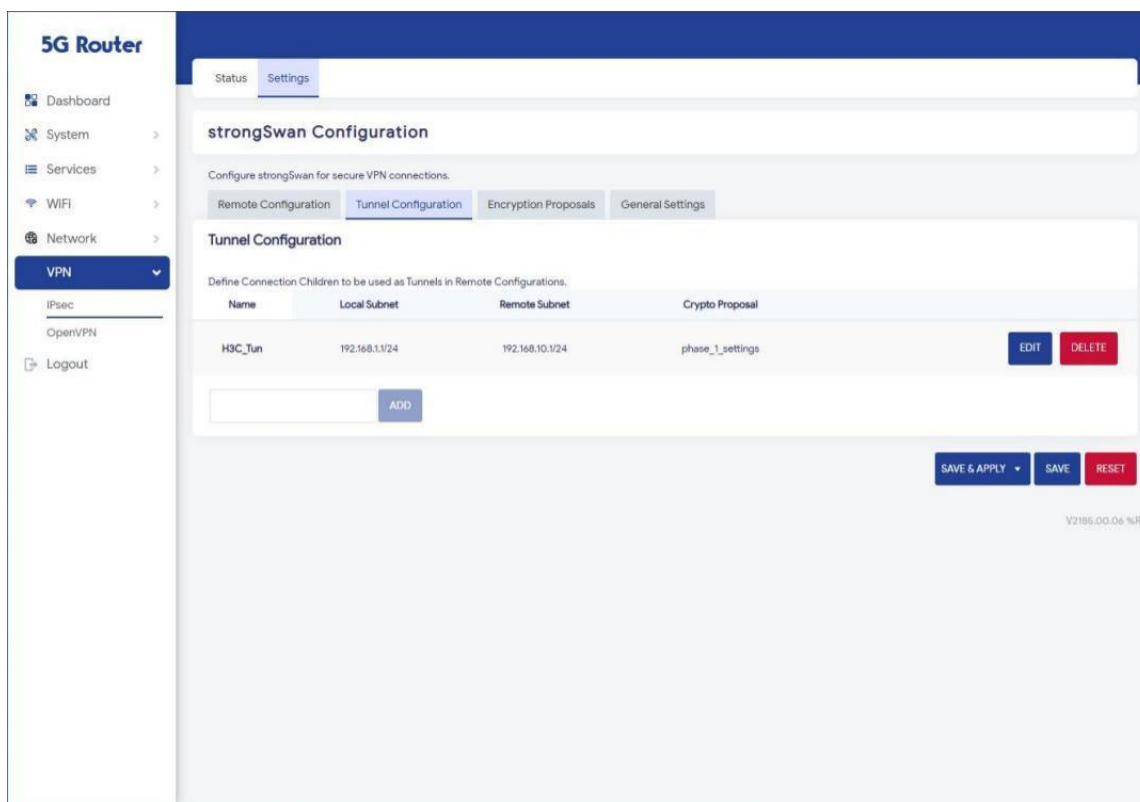
Remote Configuration

Define Remote IKE Configurations.



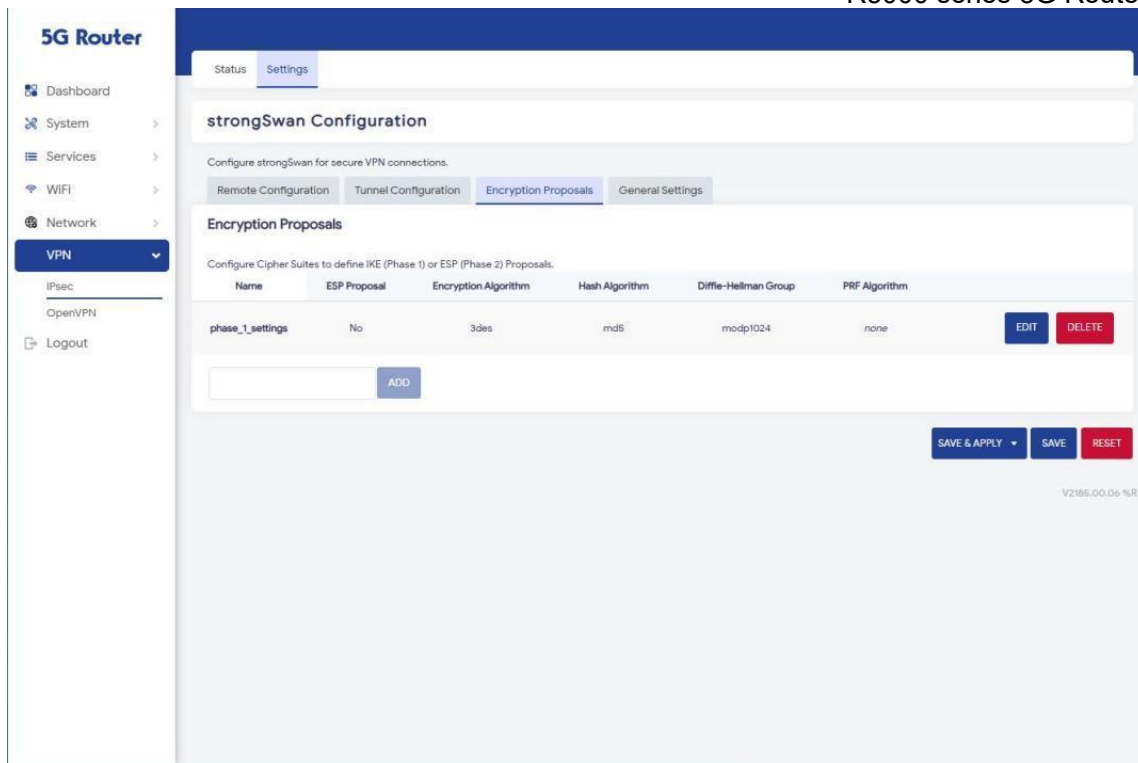
Tunnel Configuration

Define Connection Children to be used as Tunnels in Remote Configurations



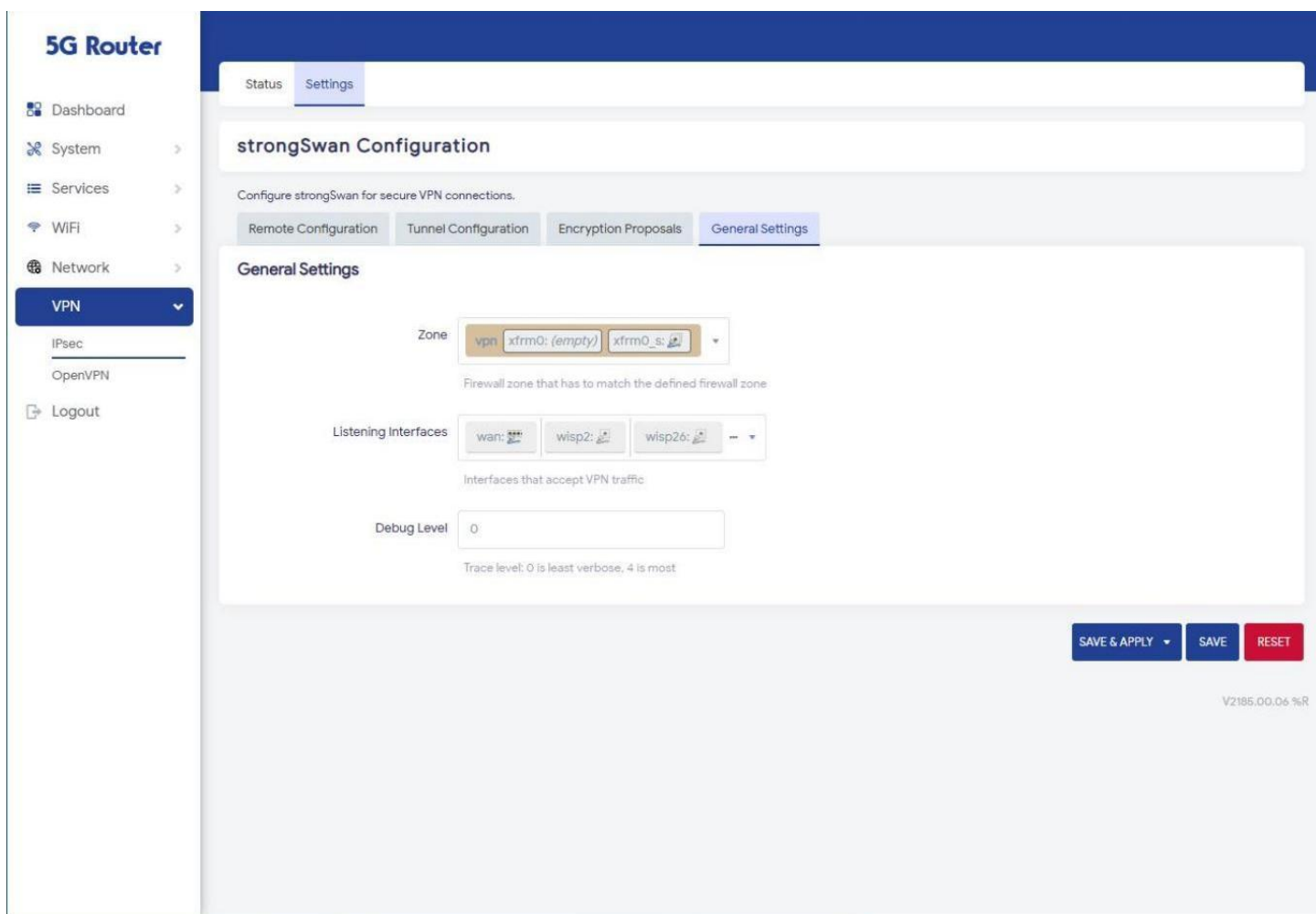
Encryption Proposals

Configure Cipher Suites to define IKE (Phase 1) or ESP (Phase 2) Proposals.



General Settings

Configure the general settings for IPsec.



OpenVPN

View and configure instances of OpenVPN.

5G Router

- Dashboard
- System
- Services
- WiFi
- Network
- VPN**
 - IPsec
 - OpenVPN
- Logout

OpenVPN

OpenVPN instances

Below is a list of configured OpenVPN instances and their current state

Name	Enabled	Started	Start/Stop	Port	Protocol	
custom_config	☐	no	<button>START</button>	-	-	<button>EDIT</button> <button>DELETE</button>
sample_server	☐	no	<button>START</button>	1194	udp	<button>EDIT</button> <button>DELETE</button>
sample_client	☐	no	<button>START</button>	-	udp	<button>EDIT</button> <button>DELETE</button>

Template based configuration

OVPN configuration file upload

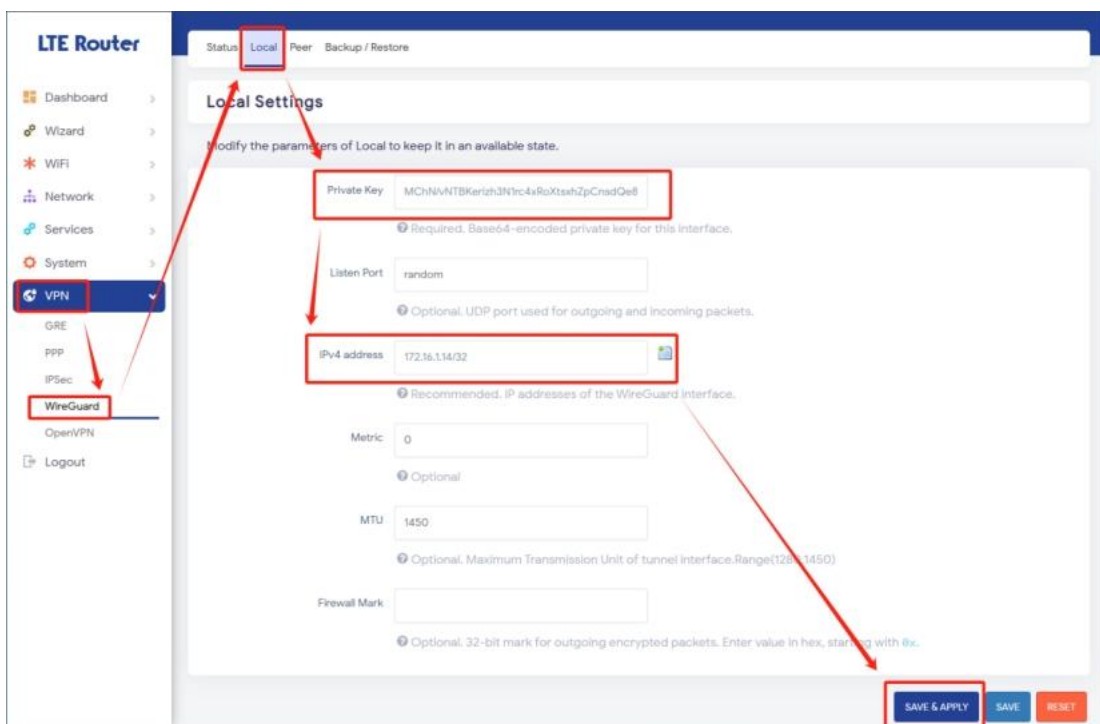
No file chosen

V2185.00.06 %R

WireGuard

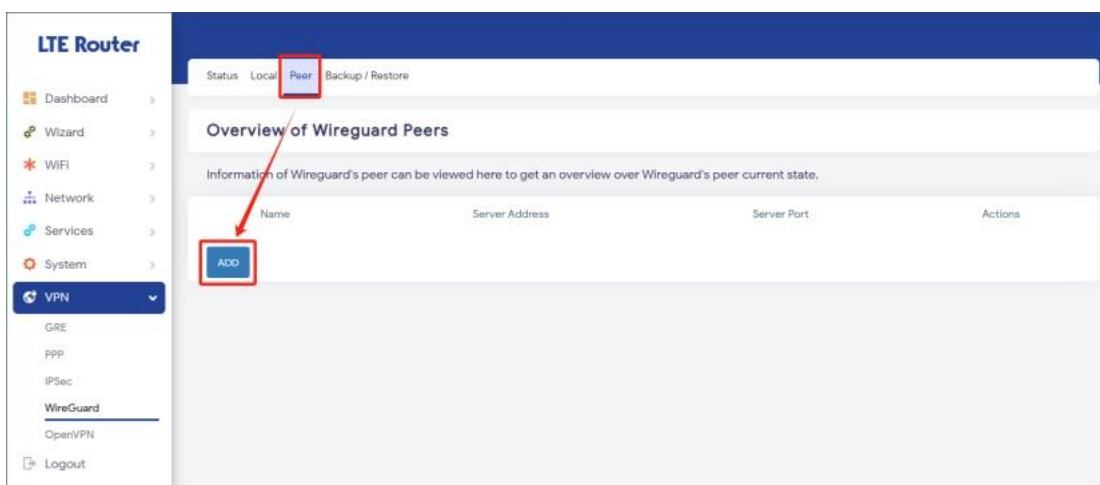
Local

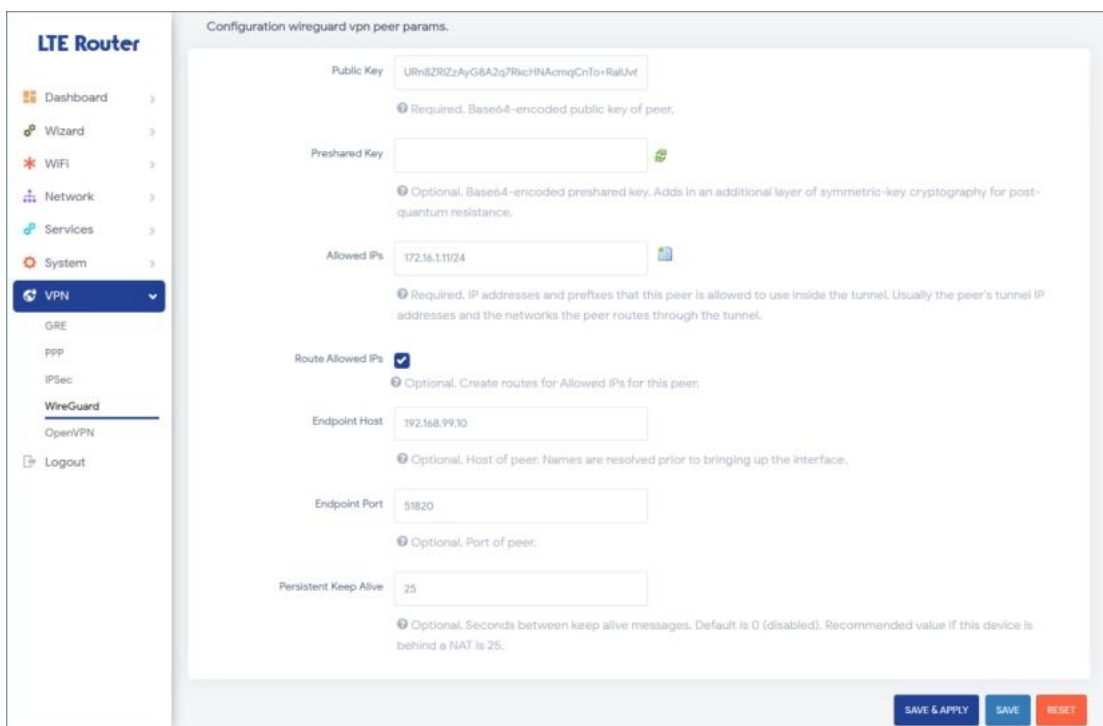
Fill in the client's private key and tunnel IP



Peer

fill in the server's public key and tunnel IP, as well as other configuration information





LTE Router

- Dashboard
- Wizard
- WiFi
- Network
- Services
- System
- VPN**
 - GRE
 - PPP
 - IPSec
 - WireGuard**
 - OpenVPN
- Logout

Configuration wireguard vpn peer params.

Public Key: URn8ZRZzAyG8A2g78kchNAcmqCnTo+RaUvt
Required. Base64-encoded public key of peer.

Preshared Key:
Optional. Base64-encoded preshared key. Adds in an additional layer of symmetric-key cryptography for post-quantum resistance.

Allowed IPs: 172.16.1/24
Required. IP addresses and prefixes that this peer is allowed to use inside the tunnel. Usually the peer's tunnel IP addresses and the networks the peer routes through the tunnel.

Route Allowed IPs: ☒
Optional. Create routes for Allowed IPs for this peer.

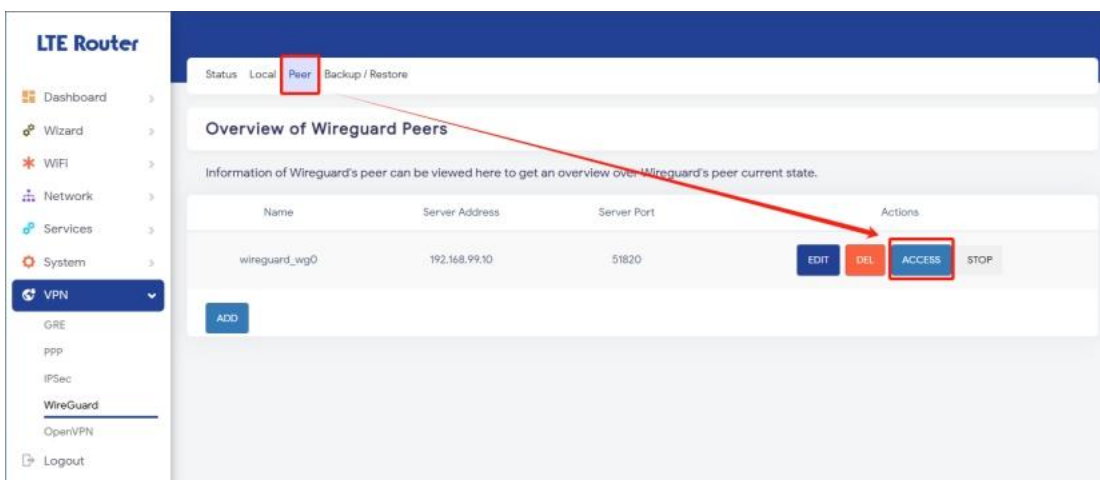
Endpoint Host: 192.168.99.10
Optional. Host of peer. Names are resolved prior to bringing up the interface.

Endpoint Port: 51820
Optional. Port of peer.

Persistent Keep Alive: 25
Optional. Seconds between keep alive messages. Default is 0 (disabled). Recommended value if this device is behind a NAT is 25.

SAVE & APPLY **SAVE** **RESET**

click the "ACCESS" button to connect



LTE Router

- Dashboard
- Wizard
- WiFi
- Network
- Services
- System
- VPN**
 - GRE
 - PPP
 - IPSec
 - WireGuard**
 - OpenVPN
- Logout

Status Local **Peer** Backup / Restore

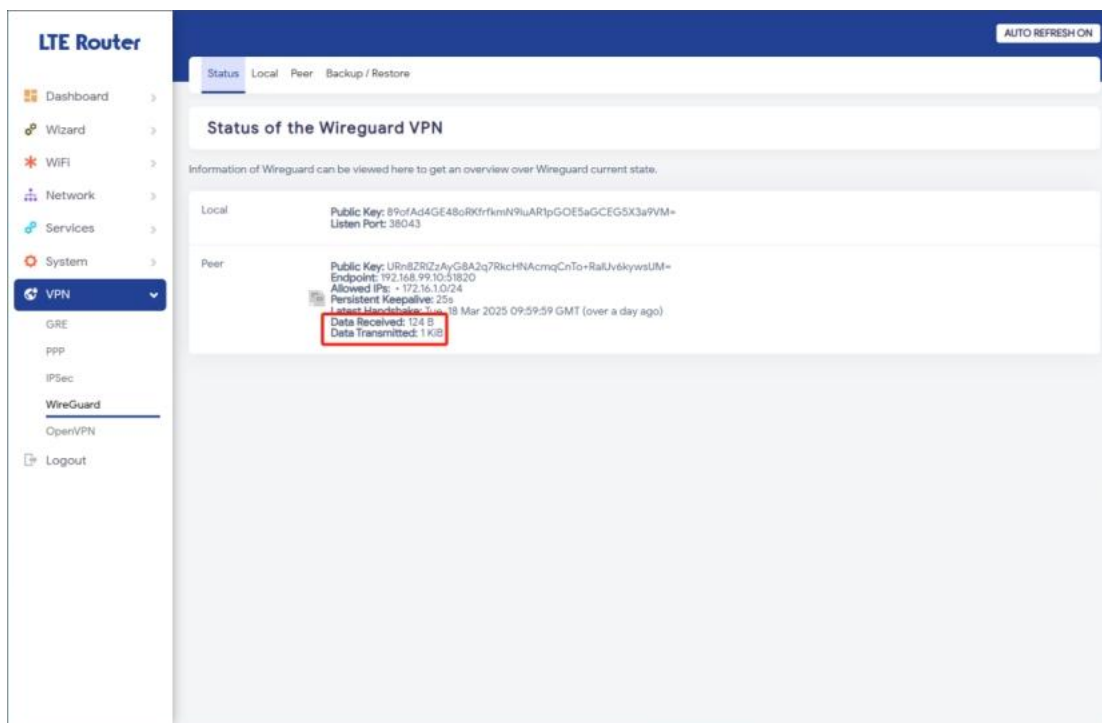
Overview of Wireguard Peers

Information of Wireguard's peer can be viewed here to get an overview over Wireguard's peer current state.

Name	Server Address	Server Port	Actions
wireguard_wg0	192.168.99.10	51820	EDIT DEL ACCESS STOP

ADD

When WireGuard connects to the server, there will be an increase in Data Received and Data Transmitted

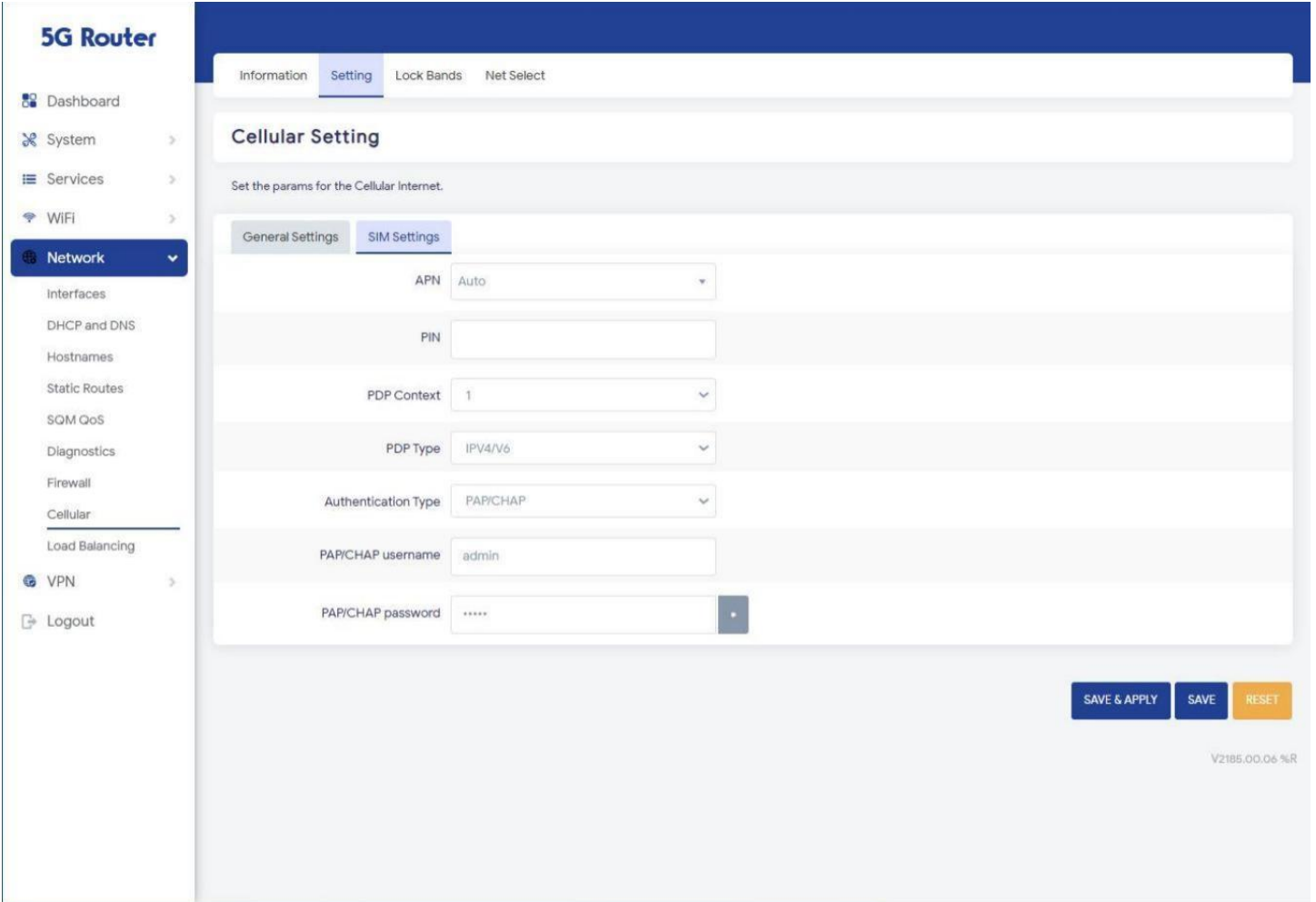


FAQ

APN/VPDN Dedicated Network Card

When the user's SIM card uses a dedicated network interface card with APN function, the router can be modified according to the following configuration to enable the router to dial up and connect to the private network normally.

1. In Network > Cellular > Settings > SIM Settings, fill in the APN or VPDN parameters provided by the operator in the corresponding location, and click "Save and Apply".



5G Router

- Dashboard
- System
- Services
- WiFi
- Network**
 - Interfaces
 - DHCP and DNS
 - Hostnames
 - Static Routes
 - SQM QoS
 - Diagnostics
 - Firewall
 - Cellular
 - Load Balancing
- VPN
- Logout

Cellular Setting

Set the params for the Cellular Internet.

General Settings **SIM Settings**

APN: Auto

PIN:

PDP Context: 1

PDP Type: IPv4/V6

Authentication Type: PAP/CHAP

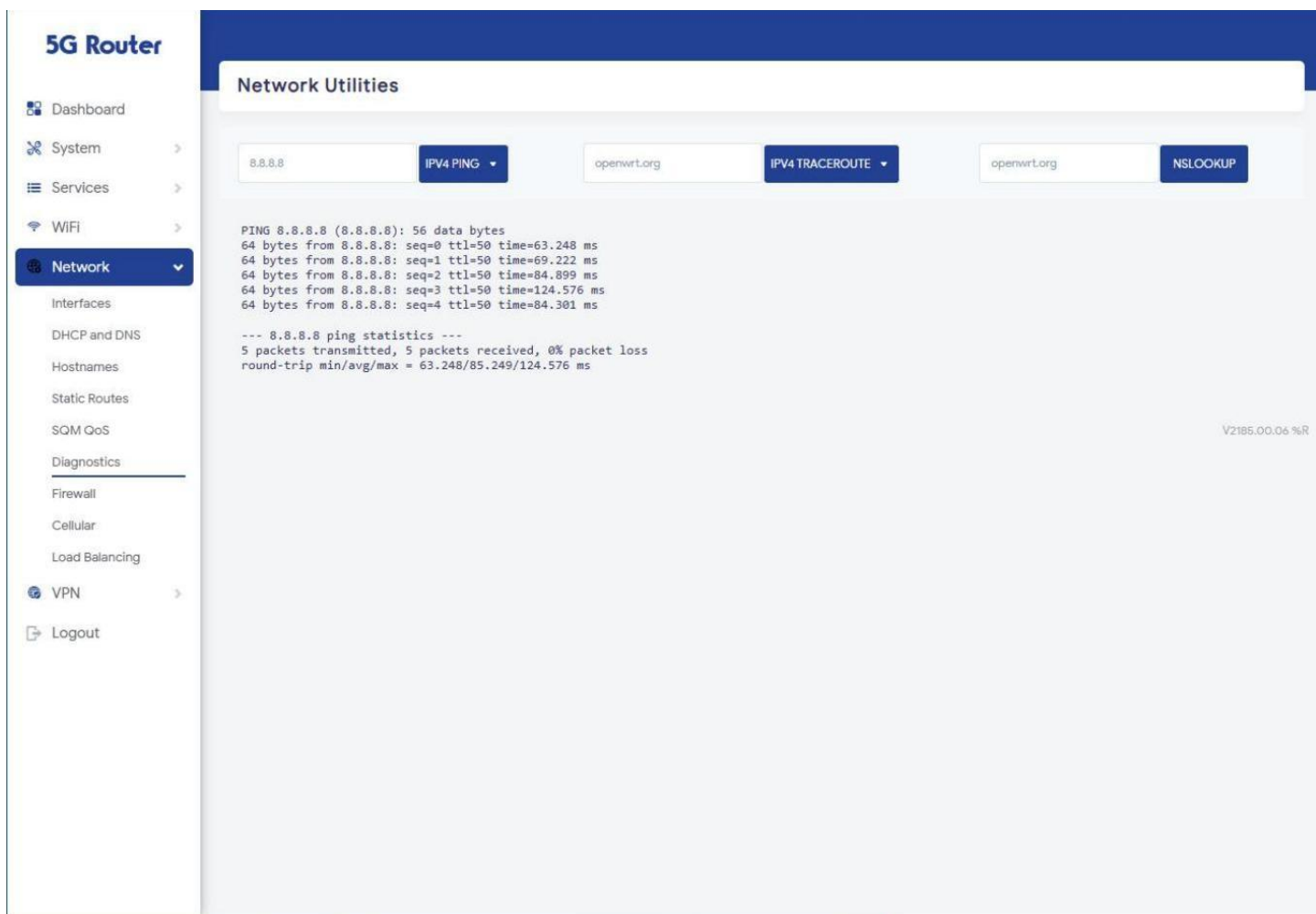
PAP/CHAP username: admin

PAP/CHAP password: *****

SAVE & APPLY **SAVE** **RESET**

V2185.00.06 %R

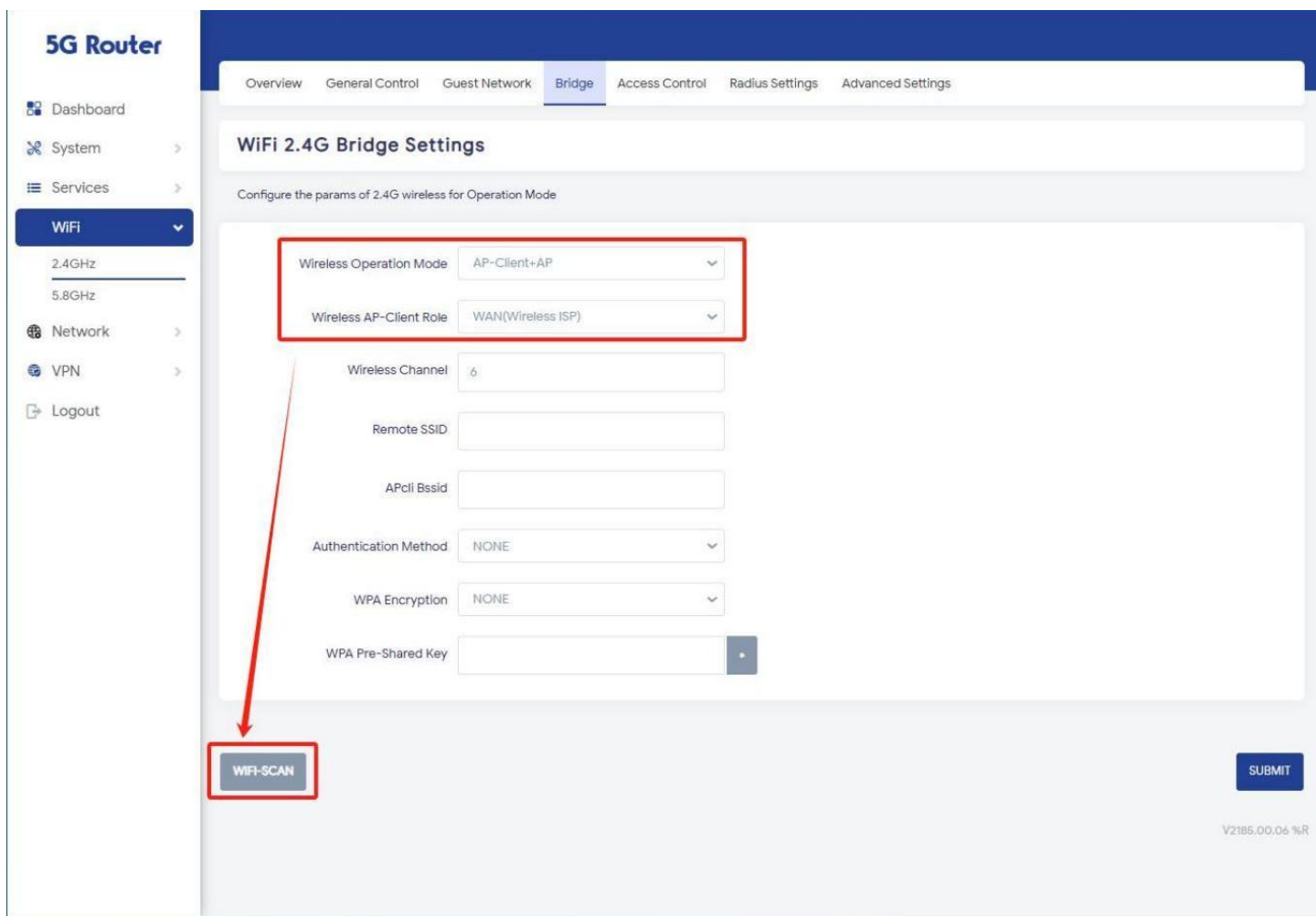
2. Check the network by ping to a specify ip address via the network diagnosis page to determine whether the connection is normal and working.



WIFI Relay / Repeater

The wireless repeater function is to use the router's WIFI as the wireless client terminal to connect to another existing WIFI hotspot. This solution can use the network of the other router or hotspot to reduce the use of cellular traffic. The specific configuration is as follows:

1. WiFi > 2.4GHz or 5.8GHz > Bridge, select "AP-client+AP" for operation mode, select "WAN (wireless ISP)" for AP-client role, click "Scan" to search for surrounding wireless networks.



5G Router

Dashboard System Services **WiFi** 2.4GHz 5.8GHz Network VPN Logout

Overview General Control Guest Network **Bridge** Access Control Radius Settings Advanced Settings

WiFi 2.4G Bridge Settings

Configure the params of 2.4G wireless for Operation Mode

Wireless Operation Mode AP-Client+AP

Wireless AP-Client Role WAN(Wireless ISP)

Wireless Channel 6

Remote SSID

APcli Bssid

Authentication Method NONE

WPA Encryption NONE

WPA Pre-Shared Key

WIFI-SCAN **SUBMIT**

V2185.00.06 %R

2. Select the hotspot you want to connect to, and click "Choose This". The router will automatically fill in the parameters of the hotspot into the column field according. If the hotspot has a password, you need to manually fill in the password and click "SUBMIT".

5G Router

Dashboard
System
Services
WIFI
2.4GHz
5.8GHz
Network
VPN
Logout

OverviewGeneral ControlGuest NetworkBridgeAccess ControlRadius SettingsAdvanced Settings

WiFi 2.4G Bridge Settings

Configure the params of 2.4G wireless for Operation Mode

SSID	Channel	BSSID	Security	RSSI	Action
goodak	6	18:2A:67:4A:31:84	WPA2PSK/AES	68	Choose This
l2100-test	1	A8:80:38:3B:FC:64	WPA2PSK/AES	91	Choose This
LTE-2G-3AC388	1	A8:80:38:3A:C3:88	WPA2PSK/TKIP/AES	100	Choose This
3AC38	1	AA:80:38:3A:C3:88	WPAPSK/WPA2PSK/AES	100	Choose This
LTE-410DA8	1	A8:80:38:41:0D:A8	WPAPSK/WPA2PSK/TKIP/AES	18	Choose This
Movingcomm-2.4GHz	1	A8:80:38:31:0F:D6	WPAPSK/WPA2PSK/TKIP/AES	26	Choose This
LTE-2G-46AD70	1	A8:80:38:46:AD:70	WPA2PSK/AES	100	Choose This
test	1	A8:80:38:3A:91:34	WPAPSK/WPA2PSK/TKIP/AES	0	Choose This
MCT2.4	1	A8:80:38:42:5F:78	WPA2PSK/AES	70	Choose This
LTE-2G-39D9C	1	AA:80:38:39:D9:C8	OPEN/NONE	63	Choose This
锐壳4G 唐	1	A8:80:38:3D:4E:88	WPAPSK/WPA2PSK/TKIP/AES	23	Choose This
TLXN	1	B8:F8:83:86:D2:0F	WPAPSK/WPA2PSK/AES	2	Choose This
305	1	98:EE:CA:56:04:FC	WPA2PSK/AES	10	Choose This
sge009	3	A8:80:38:30:63:04	WPA2PSK/AES	20	Choose This
ChinaNet-WvtG	4	F0:16:28:5F:3D:A7	WPAPSK/WPA2PSK/TKIP/AES	0	Choose This
MCT2.4	4	A8:80:38:3A:C2:44	WPA2PSK/AES	26	Choose This
MCT2.4	5	A8:80:38:46:35:30	WPA2PSK/AES	57	Choose This
NIS-HomeAP	6	A8:80:38:46:35:48	WPA2PSK/AES	100	Choose This
NIS-HomeAP-3528	6	A8:80:38:46:35:28	WPA2PSK/AES	100	Choose This
NIS-HomeAP	6	A8:80:38:46:35:2C	WPA2PSK/AES	5	Choose This
NIS-HomeAP	6	A8:80:38:46:35:4C	WPA2PSK/AES	24	Choose This
ChinaNet-A3nN	6	eC:38:45:A3:73:FD	WPAPSK/WPA2PSK/AES	0	Choose This
ChinaNet-EIXf	7	F0:92:B4:9D:2D:39	WPAPSK/WPA2PSK/TKIP/AES	26	Choose This

SUBMIT

V2185.00.06 %R

5G Router

Dashboard
System
Services
WIFI
2.4GHz
5.8GHz
Network
VPN
Logout

OverviewGeneral ControlGuest NetworkBridgeAccess ControlRadius SettingsAdvanced Settings

WiFi 2.4G Bridge Settings

Configure the params of 2.4G wireless for Operation Mode

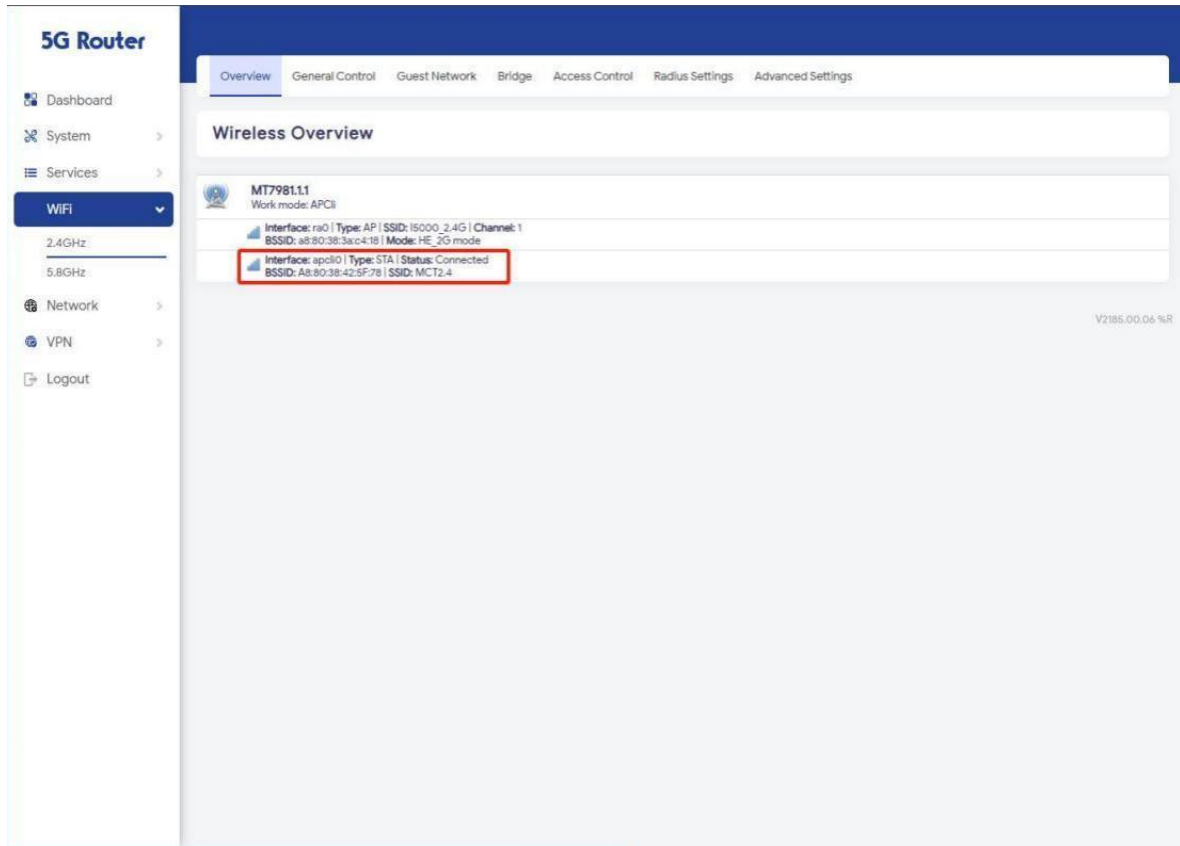
Wireless Operation ModeAP-Client+AP
Wireless AP-Client RoleWAN(Wireless ISP)
Wireless Channel1
Remote SSIDMCT2.4
APCII BssidA8:80:38:42:5F:78
Authentication MethodWPA2-PSK
WPA EncryptionAES
WPA Pre-Shared Key
ApCII MFPC
ApCII MFPR
ApCII MFPSHA256

WiFi-SCAN

SUBMIT

3. When the router is connected to a hotspot, the STA in the WiFi overview will display the status as

connected. In the router's overview menu, the IP address of the higher-level WiFi hotspot obtained can be seen, and the router's relay is connected normally.



5G Router

Dashboard
System
Services
WIFI
Network
VPN
Logout

Internet

IPv4 Internet
Connected: YES
Uptime: 0h 1m 28s
Protocol: DHCP client
IPv4: 192.168.188.181
GatewayV4: 192.168.188.254
DNSv4: 192.168.188.254, 192.168.188.254

IPv6 Internet
Connected: YES
Uptime: 0h 1m 54s
Protocol: DHCPv6 client
IPv6 prefix: -
GatewayV6: fe80::1448:2cff:fedc:47f2
DNSv6: 2409:8057:2000::8, 2409:8057:2000:4::8

System

Hostname: 5G-Router
Uptime: 1h 57m 50s
Local Time: 2025-02-05 11:45:39
Kernel Version: 5.4.238
Model: Cellular Router
Architecture: ARMv8 Processor rev 4
Firmware Version: V2185.00.06
MEM Usage: 82.90%
CPU Usage: 3.88%
Load Average: 1.38, 1.20, 1.07

Cellular1

Device: RM520N-CN
Software Version: RM520NCNAAR05A02M4G
IMEI: 861464060152838
IMSI: 460010767037254
ICCID:
SIM: READY
Network Desc: NR5G-SA
PLMN: 46011
Network/band: 78

(E/A/U)RFCN: -
BWUL/BWDL: -/-
(T/L/R)AC(hex): -
CELLID(hex): -
Cell PCI: -
RSSI: -
SINR/ECIO: 8
RSRP: -83
RSRQ: -4

Cellular2

Device: RM500U-CN
Software Version: RM500UCNAAR01A18M2G_01.001.01.001
IMEI: 868227050435833
IMSI: 460115065828074
ICCID:
SIM: READY
Network Desc: NR5G-SA
PLMN: 46011
Network/band: 78

(E/A/U)RFCN: 1650
BWUL/BWDL: -/-
(T/L/R)AC(hex): 7794
CELLID(hex): 6146909
Cell PCI: 239
RSSI: -61
SINR/ECIO: 8
RSRP: -83
RSRQ: -4

4. Perform packet ping to the gateway address of the uplink network via the network diagnostics page to determine whether or not the connection is normal.

5G Router

- Dashboard
- System
- Services
- WiFi
- Network**
 - Interfaces
 - DHCP and DNS
 - Hostnames
 - Static Routes
 - SQM QoS
 - Diagnostics
 - Firewall
 - Cellular
 - Load Balancing
- VPN
- Logout

Network Utilities

```

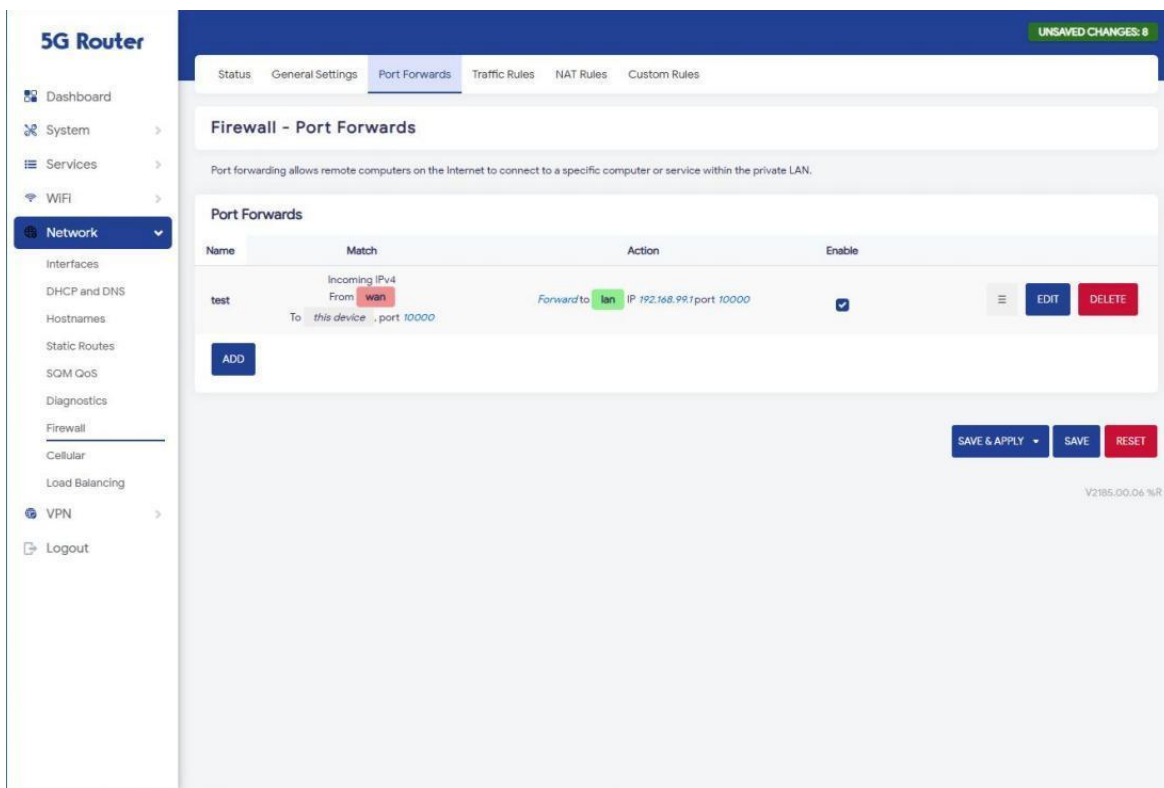
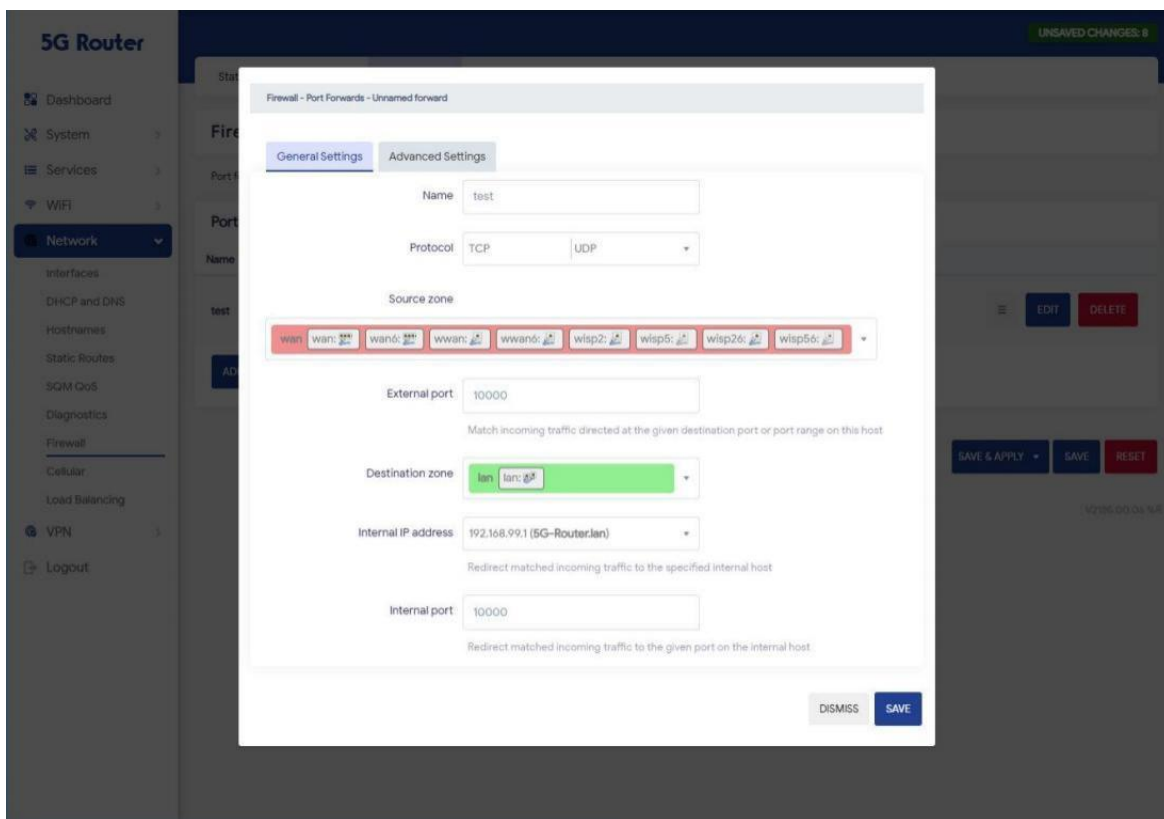
PING 192.168.188.254 (192.168.188.254): 56 data bytes
64 bytes from 192.168.188.254: seq=0 ttl=64 time=1.876 ms
64 bytes from 192.168.188.254: seq=1 ttl=64 time=8.774 ms
64 bytes from 192.168.188.254: seq=2 ttl=64 time=3.761 ms
64 bytes from 192.168.188.254: seq=3 ttl=64 time=2.077 ms
64 bytes from 192.168.188.254: seq=4 ttl=64 time=7.967 ms

--- 192.168.188.254 ping statistics ---
5 packets transmitted, 5 packets received, 0% packet loss
round-trip min/avg/max = 1.876/4.891/8.774 ms
          
```

V2185.00.06 %R

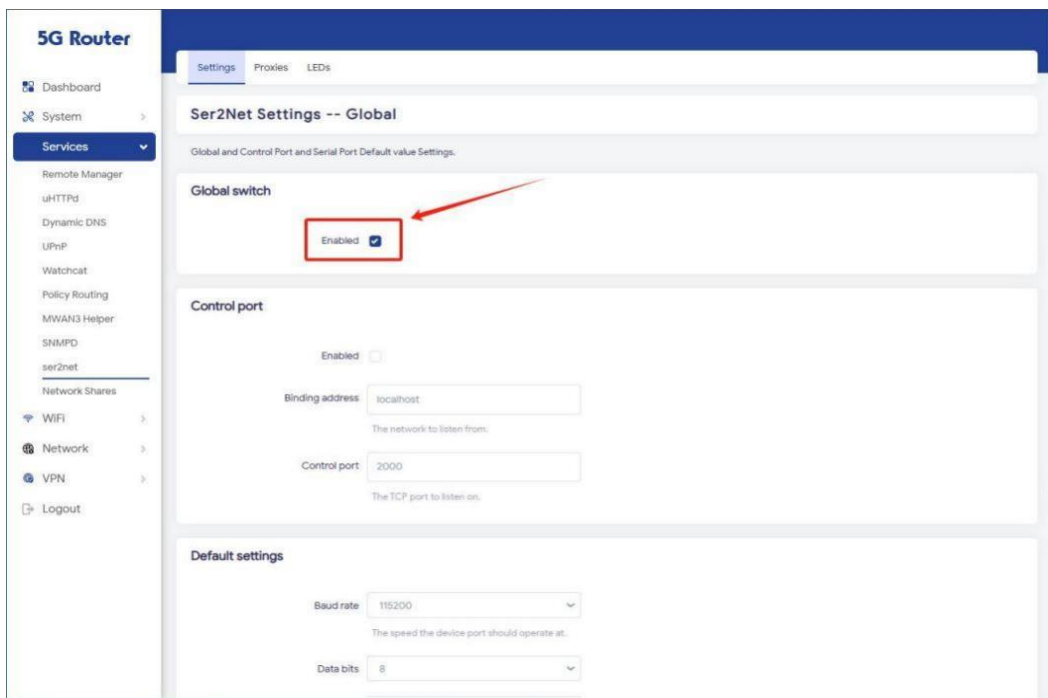
Port Mapping

"Port Forwards" can be found in the firewall page. You can map the port that needs to be translated and forwarded to the corresponding intranet IP, and click "SAVE & APPLY" to apply the configuration



Serial Passthrough

1. First enable the Ser2Net function, the router enables the TCP server, and records the address and port of the router



5G Router

Dashboard System **Services** Network Shares WiFi Network VPN Logout

Remote Manager uHTTPd Dynamic DNS UPnP Watchcat Policy Routing Mwan3 Helper SNMPD ser2net

Ser2Net Settings -- Global

Global and Control Port and Serial Port Default value Settings.

Global switch

Enabled ☒

Control port

Enabled ☐

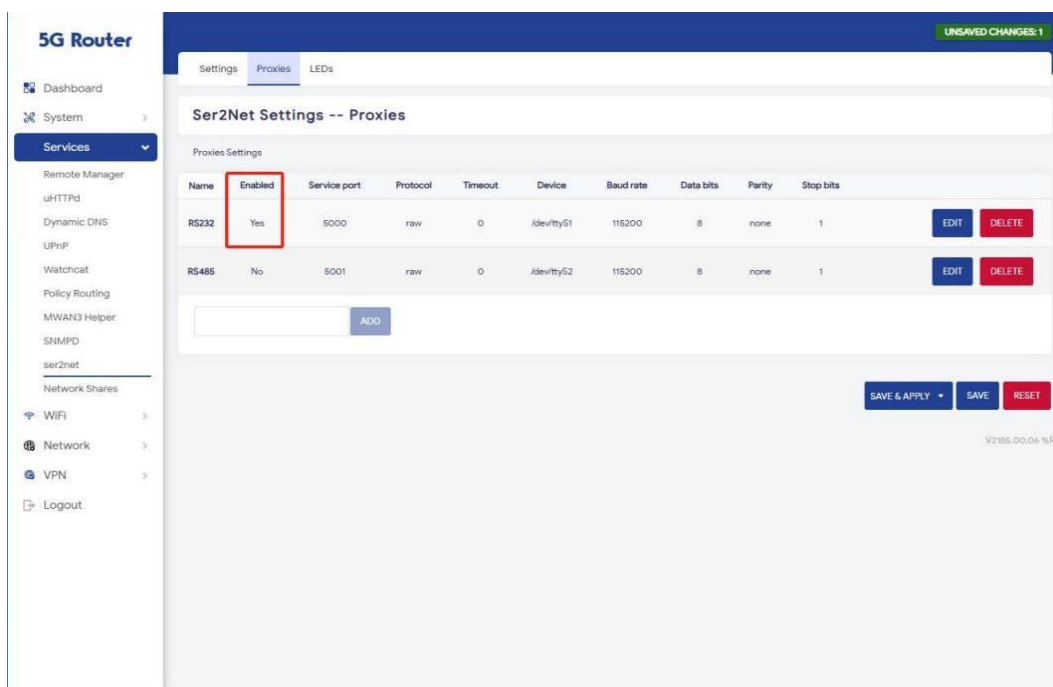
Binding address: localhost
The network to listen from.

Control port: 2000
The TCP port to listen on.

Default settings

Baud rate: 115200
The speed the device port should operate at.

Data bits: 8



5G Router

Dashboard System **Services** Network Shares WiFi Network VPN Logout

Remote Manager uHTTPd Dynamic DNS UPnP Watchcat Policy Routing Mwan3 Helper SNMPD ser2net

Ser2Net Settings -- Proxies

Proxies Settings

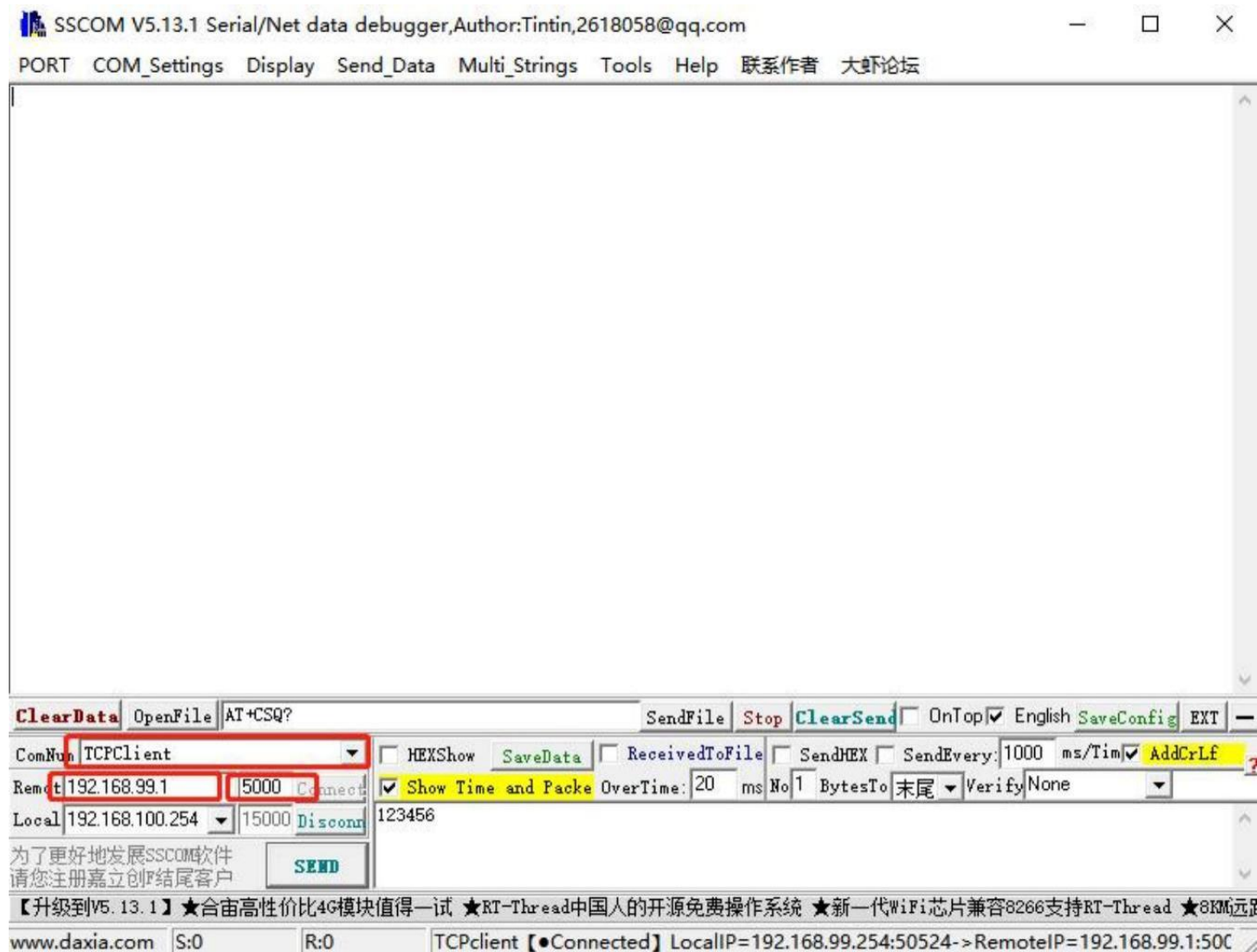
Name	Enabled	Service port	Protocol	Timeout	Device	Baud rate	Data bits	Parity	Stop bits	
RS232	Yes	5000	raw	0	/dev/ttyS1	115200	8	none	1	EDIT DELETE
RS485	No	5001	raw	0	/dev/ttyS2	115200	8	none	1	EDIT DELETE

ADD

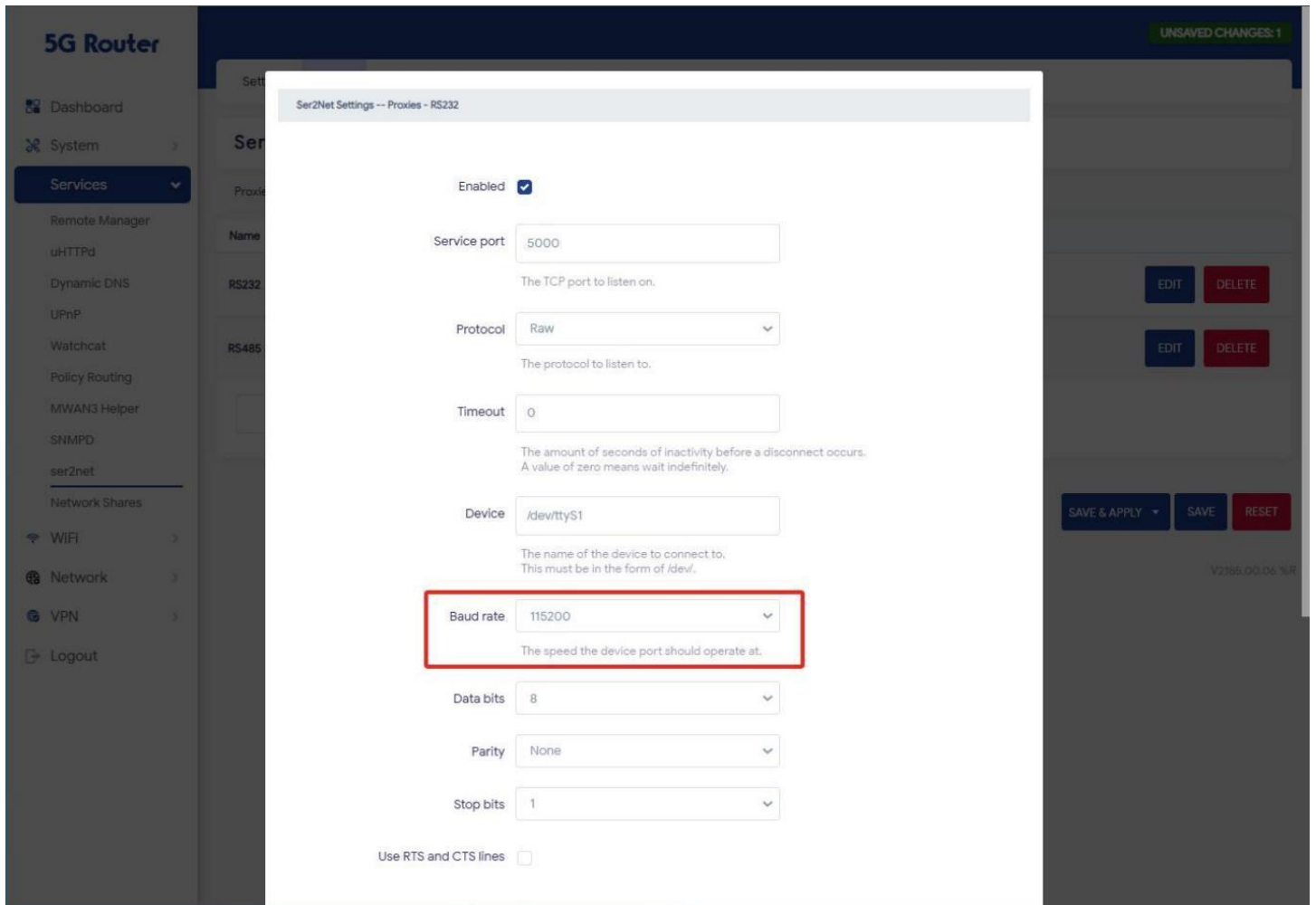
SAVE & APPLY SAVE RESET

V2185.00.06 %R

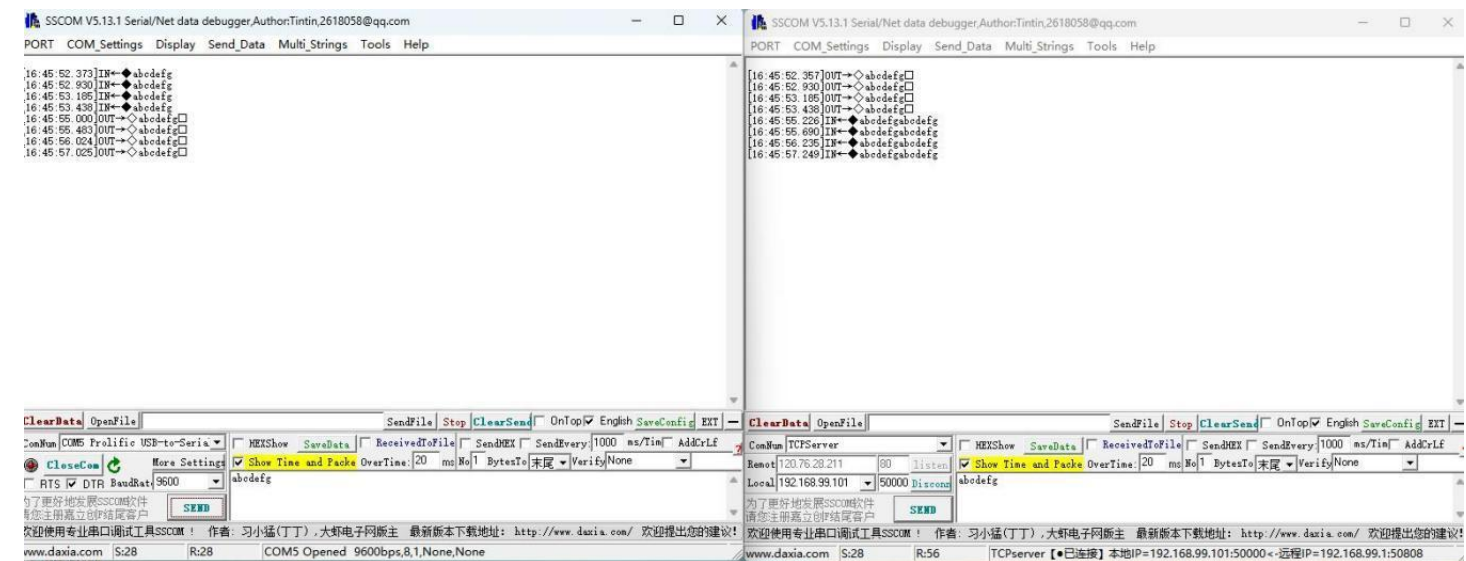
2. Open the serial port tool, select the TCP client side, and fill in the router IP and port to connect to the TCP server here



3. According to the baud rate of the serial port to set the baud rate information. Connect the RS232 connection to the RS232 serial port.



4. After that, you can send data to each other between tcp client and the serial port.





R5000 series 5G Router User Manual