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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

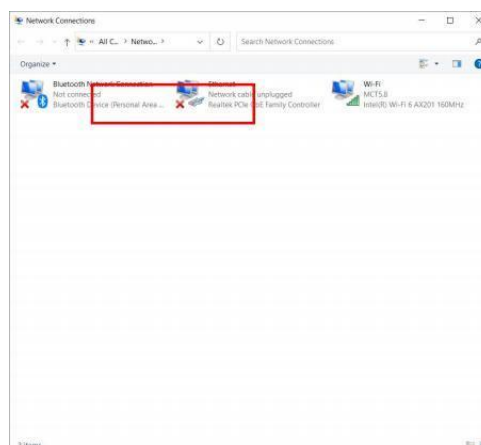
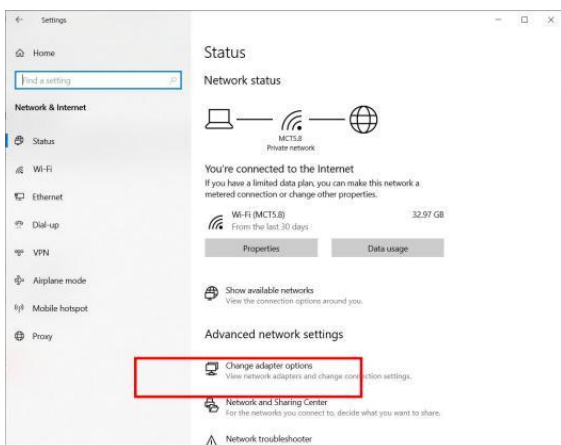
Insert the WiFi antenna, cellular network antenna, and SIM cards according to the interface instructions, connect them to a 9-36V DC power supply, observe the indicator light SYS flashing, and the router starts normally.



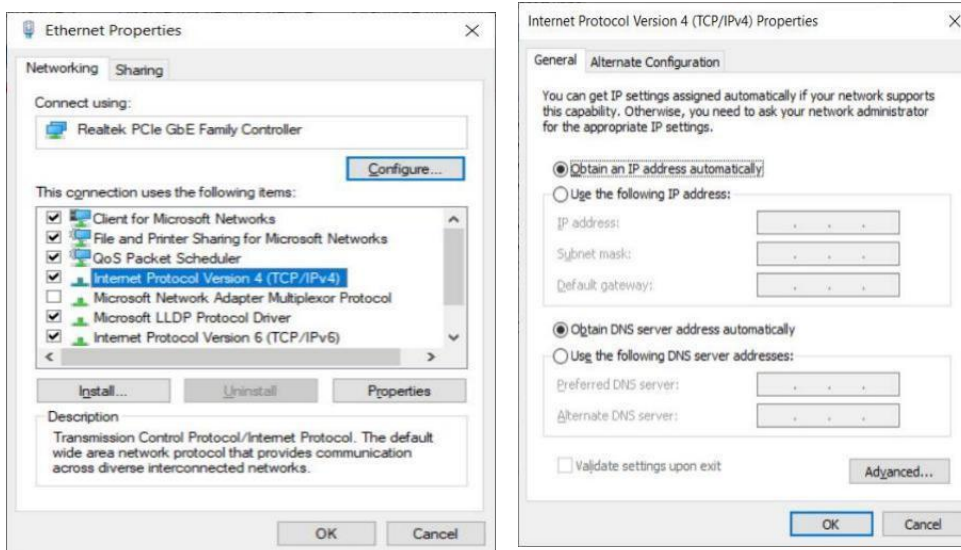
Note: Please do not remove or insert the SIM card with power on, otherwise the SIM card may be damaged.

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

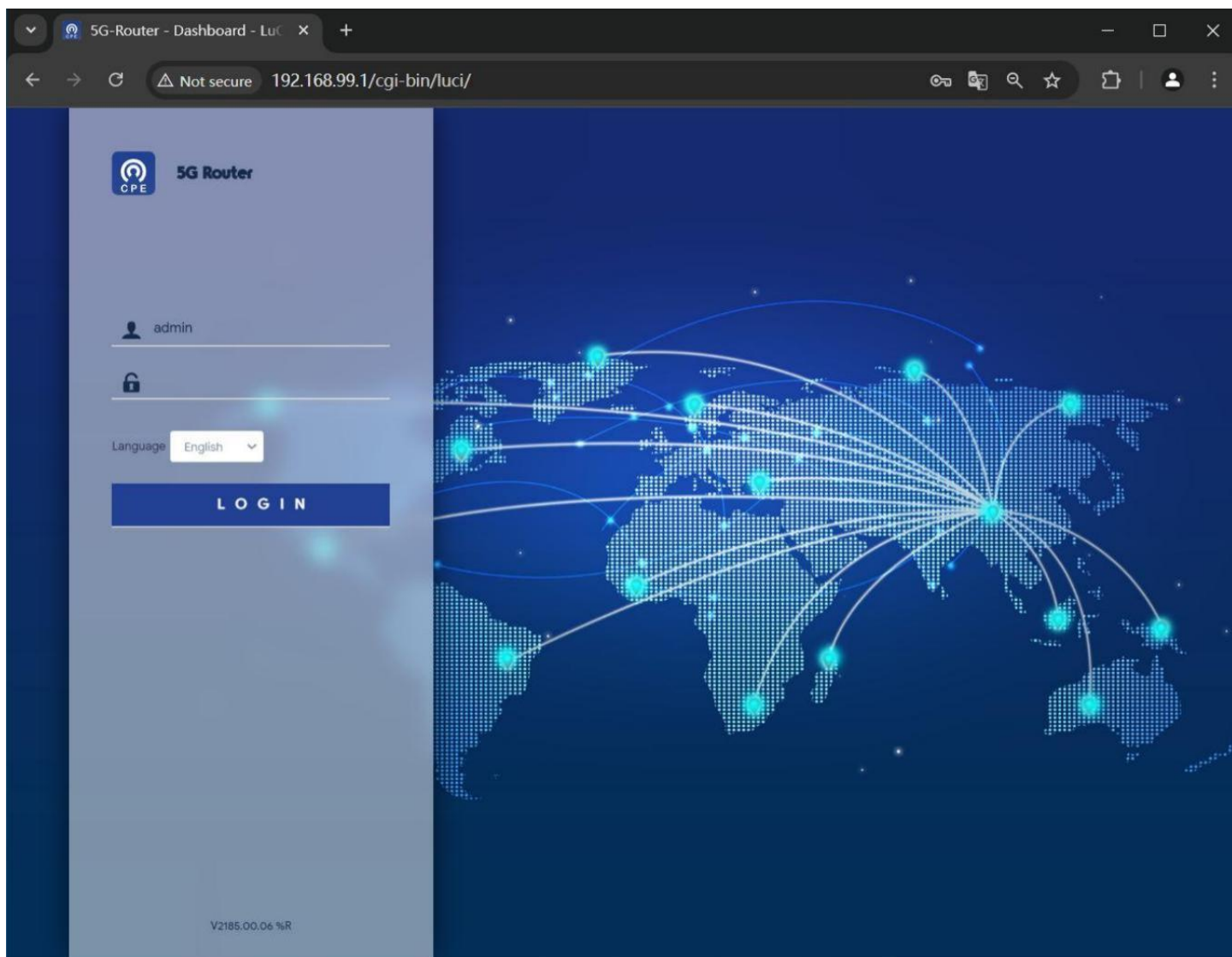
Login to the router

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

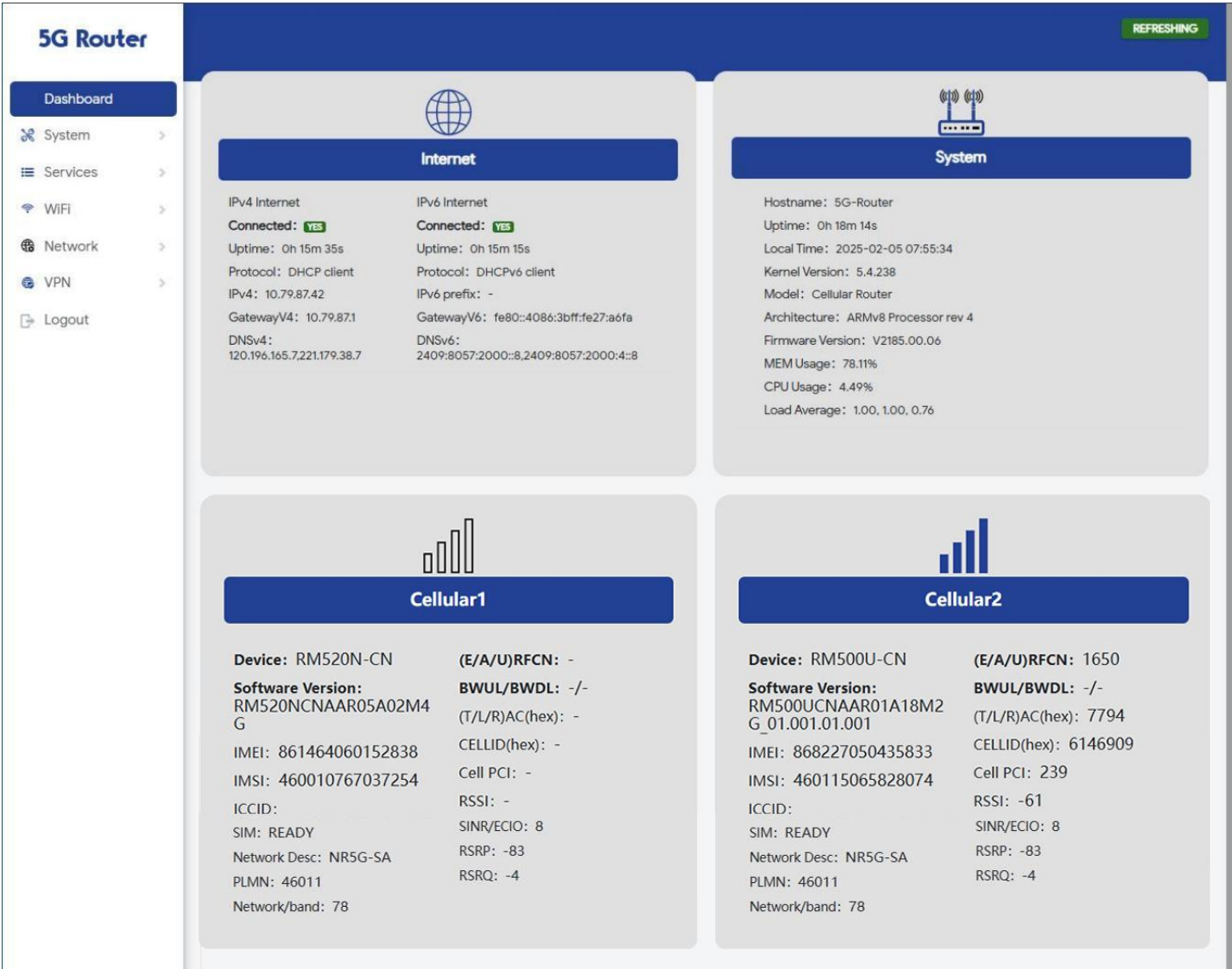
Username: admin

Default Password: admin

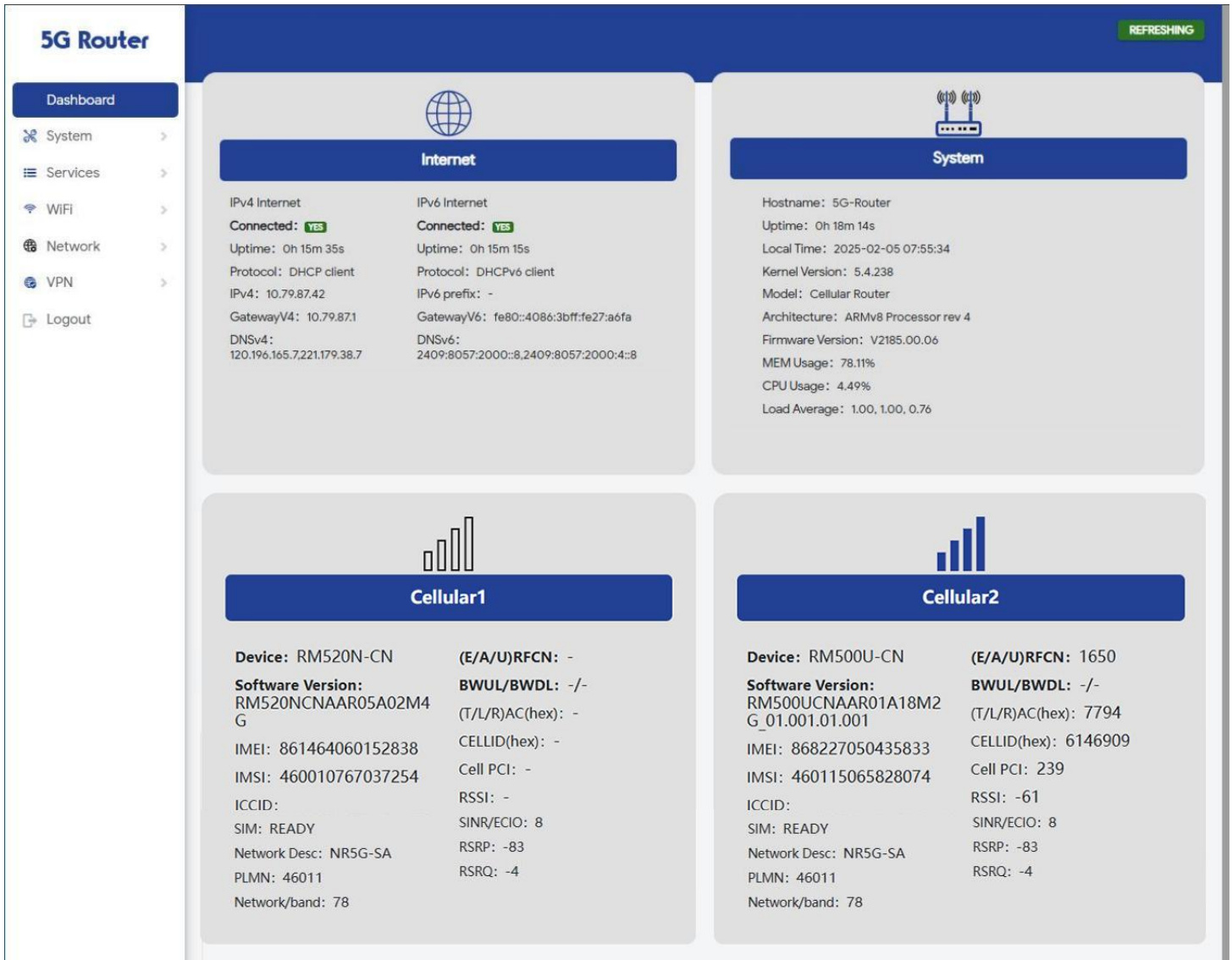
It is recommended to use Google Chrome or Mozilla Firefox browser.



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.

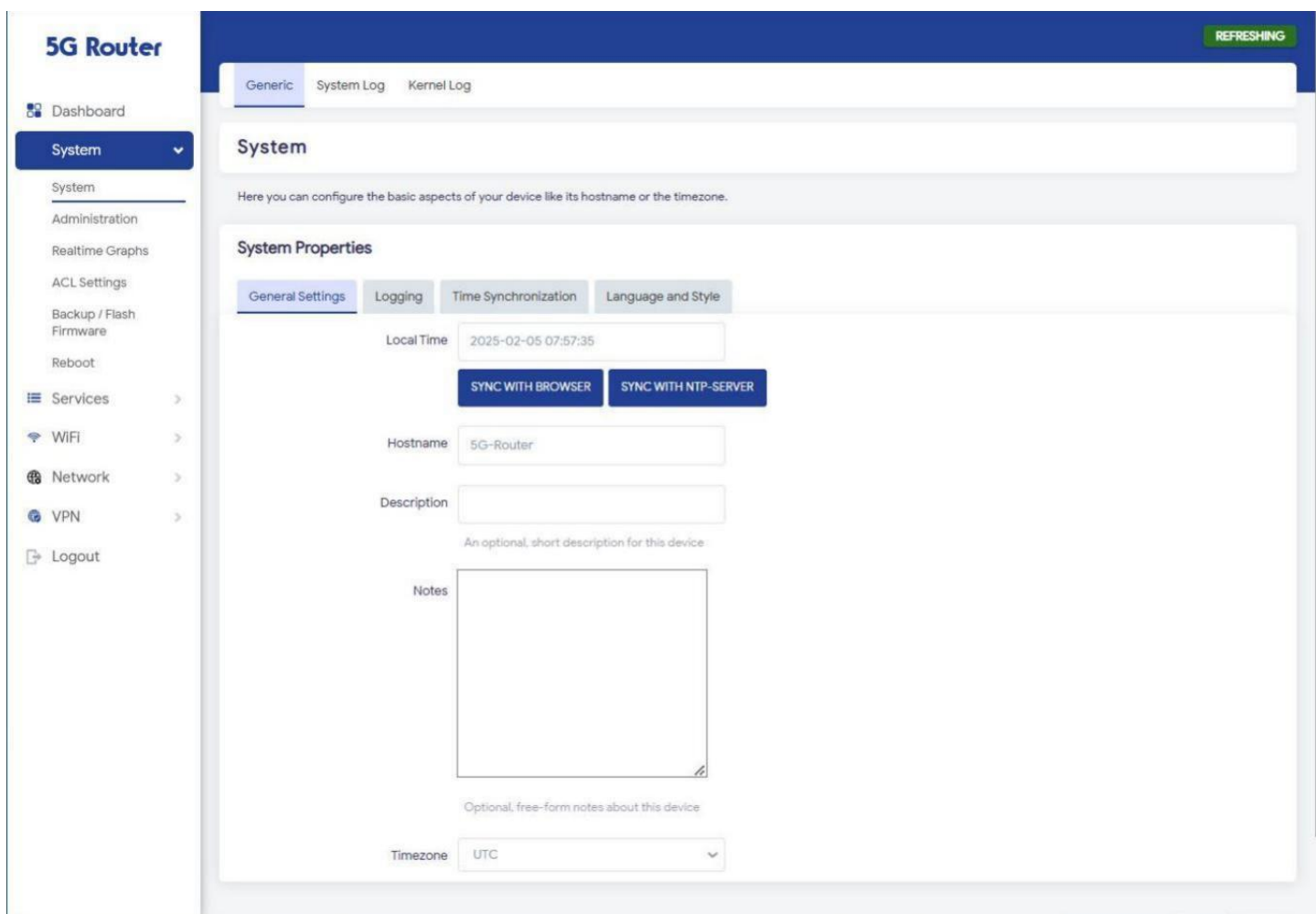


System

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.' Underneath is the 'System Properties' section with 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 free-form notes. Below it is a small text label: 'Optional, free-form notes about this device'.
- Timezone:** A dropdown menu currently set to 'UTC'.

Configure system log related information here.

5G Router

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

Generic System Log Kernel Log

System

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

System Properties

General Settings

Logging

Time Synchronization

Language and Style

System log buffer size

64

kB

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

SAVE & APPLY

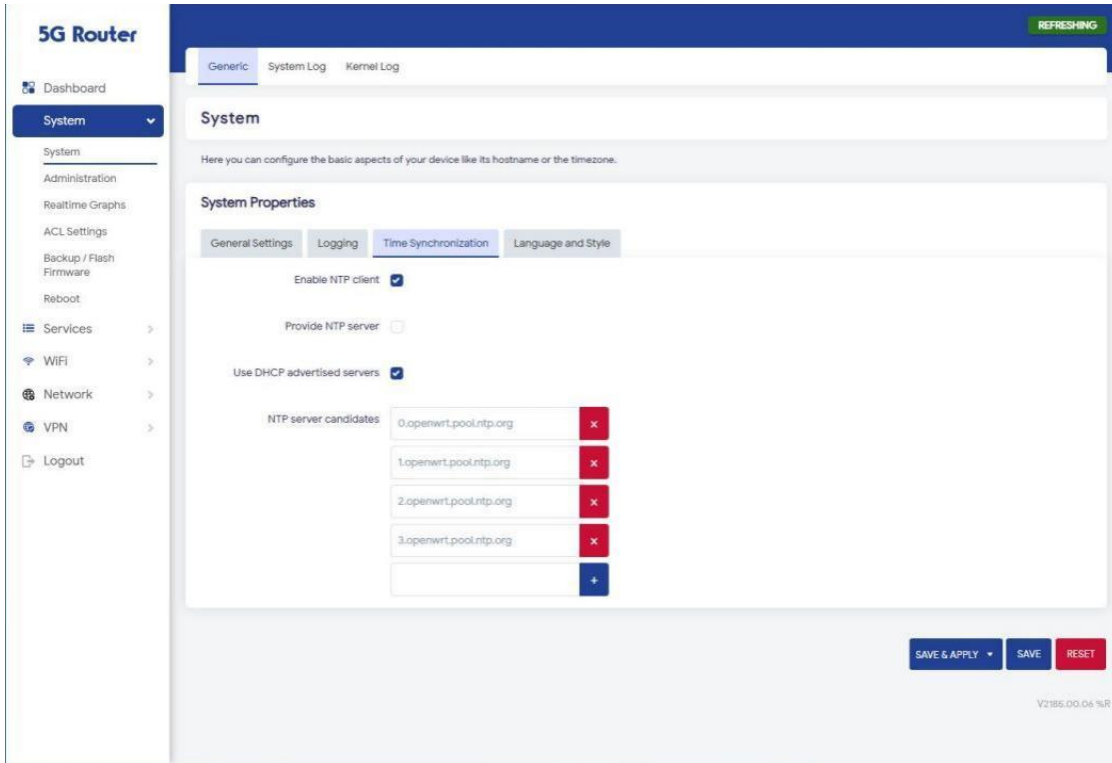
SAVE

RESET

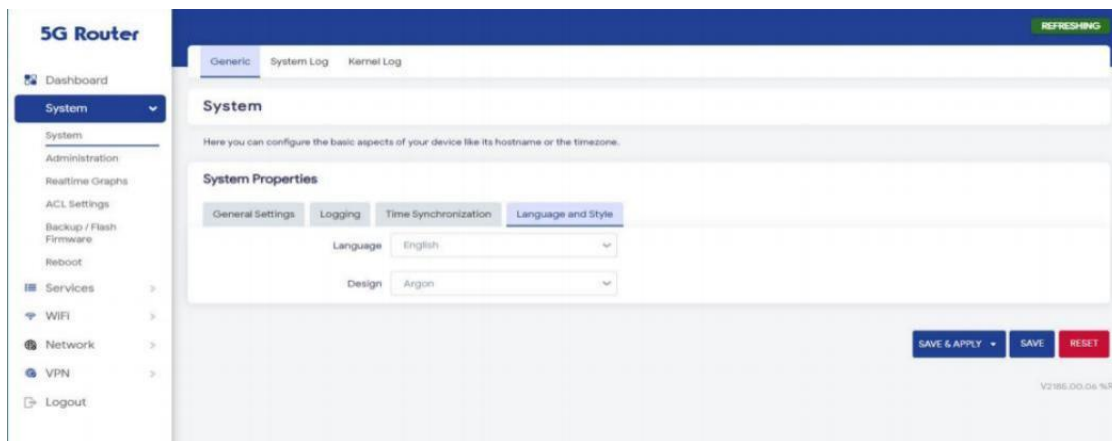
V2185.00.06 %R

Time Synchronization

Configure NTP time synchronization related information here.



Language and Style



System Log

View the router's system log here.

5G Router

Dashboard

System

System

Administration

Realtime Graphs

ACL Settings

Backup / Flash Firmware

Reboot

Services

WiFi

Network

VPN

Logout

Generic

System Log

Kernel Log

System Log

Mon Apr 17 13:19:30 2023 user.info kernel: [7847631] block: extroot: not configured

Mon Apr 17 13:19:30 2023 user.info kernel: [7852492] mount_root: switching to jffs2 overlay

Mon Apr 17 13:19:30 2023 kern.warn kernel: [7860148] overlayfs: upper fs does not support truncate

Mon Apr 17 13:19:30 2023 kern.info kernel: [7866114] overlayfs: "vino" feature enabled using 32 upper index bits.

Mon Apr 17 13:19:30 2023 user.debug kernel: [7874409] urandom-seed: Seeding with /etc/urandom.seed

Mon Apr 17 13:19:30 2023 user.info kernel: [7923582] procd - early -

Mon Apr 17 13:19:30 2023 user.info kernel: [7926532] procd - watchdog -

Mon Apr 17 13:19:30 2023 kern.notice kernel: [8.080615] random: jshn: uninitialized urandom read (4 bytes read)

Mon Apr 17 13:19:30 2023 kern.notice kernel: [8.151402] random: jshn: uninitialized urandom read (4 bytes read)

Mon Apr 17 13:19:30 2023 user.info kernel: [8.464180] procd - watchdog -

Mon Apr 17 13:19:30 2023 user.info kernel: [8.476077] procd - ubus -

Mon Apr 17 13:19:30 2023 kern.notice kernel: [8.521731] random: ubusd: uninitialized urandom read (4 bytes read)

Mon Apr 17 13:19:30 2023 user.info kernel: [8.531905] procd - init -

Mon Apr 17 13:19:30 2023 user.info kernel: [8.728054] umsg: v1.0.2 started.

Mon Apr 17 13:19:30 2023 kern.info kernel: [8.751368] random: crng init done

Mon Apr 17 13:19:30 2023 kern.notice kernel: [8.760605] random: 22 urandom warning(s) missed due to ratelimiting

Mon Apr 17 13:19:30 2023 user.info kernel: [8.798334] kmodloader: loading kernel modules from /etc/modules.d/*

Mon Apr 17 13:19:30 2023 kern.info kernel: [8.839233] RPC: Registered named UNIX socket transport module.

Mon Apr 17 13:19:30 2023 kern.info kernel: [8.845254] RPC: Registered udp transport module.

Mon Apr 17 13:19:30 2023 kern.info kernel: [8.849660] RPC: Registered tcp transport module.

Mon Apr 17 13:19:30 2023 kern.info kernel: [8.854658] RPC: Registered tcp NFSv4.1 backchannel transport module.

Mon Apr 17 13:19:30 2023 kern.info kernel: [8.864802] NET: Registered protocol family 15

Mon Apr 17 13:19:30 2023 kern.info kernel: [8.872373] Initializing XFRM netlink socket

Mon Apr 17 13:19:30 2023 kern.info kernel: [8.877964] tun: Linux TUN/TAP device driver, 1.6

Mon Apr 17 13:19:30 2023 kern.info kernel: [8.897310] l2tp_core: L2TP core driver, V2.0

Mon Apr 17 13:19:30 2023 kern.info kernel: [8.902454] l2tp_netlink: L2TP netlink interface

Mon Apr 17 13:19:30 2023 kern.info kernel: [8.908906] gre GRE over IPv4 demultiplexor driver

Mon Apr 17 13:19:30 2023 kern.info kernel: [8.914866] ip_gre GRE over IPv4 tunneling driver

Mon Apr 17 13:19:30 2023 kern.info kernel: [8.922612] ip_gre GRE over IPv6 tunneling driver

Mon Apr 17 13:19:30 2023 kern.info kernel: [8.932781] installing kernel/copyright (C) 1996-08 kernel@monad.swb.de).

Mon Apr 17 13:19:30 2023 kern.info kernel: [8.984276] GACT probability on

Mon Apr 17 13:19:30 2023 kern.info kernel: [8.989766] Mirror/redirect action on

Mon Apr 17 13:19:30 2023 kern.info kernel: [9.000512] u32 classifier

Mon Apr 17 13:19:30 2023 kern.info kernel: [9.001318] input device check on

Mon Apr 17 13:19:30 2023 kern.info kernel: [9.005012] Actions configured

Mon Apr 17 13:19:30 2023 kern.info kernel: [9.013733] usbcore: registered new interface driver cdc_wdm

Mon Apr 17 13:19:30 2023 kern.info kernel: [9.023740] usbcore: registered new interface driver gsmi_wdm_q

Mon Apr 17 13:19:30 2023 kern.info kernel: [9.032847] usbcore: registered new interface driver cdc_ether

Mon Apr 17 13:19:30 2023 kern.info kernel: [9.040122] usbcore: registered new interface driver cdc_ncm

Mon Apr 17 13:19:30 2023 kern.info kernel: [9.058691] Current maxfilter version v3.0.1.2

Mon Apr 17 13:19:30 2023 kern.warn kernel: [10.073426] mt: with module license 'Proprietary' taints kernel.

Mon Apr 17 13:19:30 2023 kern.warn kernel: [10.079446] Disabling loop debugging due to kernel taint

Mon Apr 17 13:19:30 2023 kern.info kernel: [10.124000] conninfra@conninfra_pwr_on:120] [conninfra_pwr_on] drv=13]

Mon Apr 17 13:19:30 2023 kern.info kernel: [10.135681] conninfra@_consys_polling_chip:120] Read CONSYS HW IP version successfully! (0a02909000)

Mon Apr 17 13:19:30 2023 kern.debug kernel: [10.149429] 32m2me Type: 0x00000000

Mon Apr 17 13:19:30 2023 kern.debug kernel: [10.149431] 32m3mSKU Type: 00000000

Mon Apr 17 13:19:30 2023 kern.info kernel: [10.153349] conninfra@ (opfunc_power_on_internal241) [Conninfra Pwr On] BT-(0) FM-(0) GPS-(0) WF-(1) CONNINFRA-(1)

Mon Apr 17 13:19:30 2023 kern.err kernel: [10.167651] WiFi@C2L1: get_dbg_setting_by_profile() 4310: debug level setting=MODEX0, debug_level not found!

Mon Apr 17 13:19:30 2023 kern.err kernel: [10.177490] WiFi@C2L1: get_dbg_setting_by_profile() 4313: debug option setting=MODEX0, debug_option not found!

Mon Apr 17 13:19:30 2023 kern.debug kernel: [10.187537] mt_rbus 0000-0000-0: runtime IRQ mapping not provided by arch

Mon Apr 17 13:19:30 2023 kern.debug kernel: [10.201559] mt7981_init()->

Kernel Log

View the router's kernel log [here](#).

5G Router

Dashboard

System

RealTime Graphs

ACL Settings

Backup / Flash Firmware

Reboot

Services

WiFi

Network

VPN

Logout

Generic

System Log

Kernel Log

Kernel Log

```

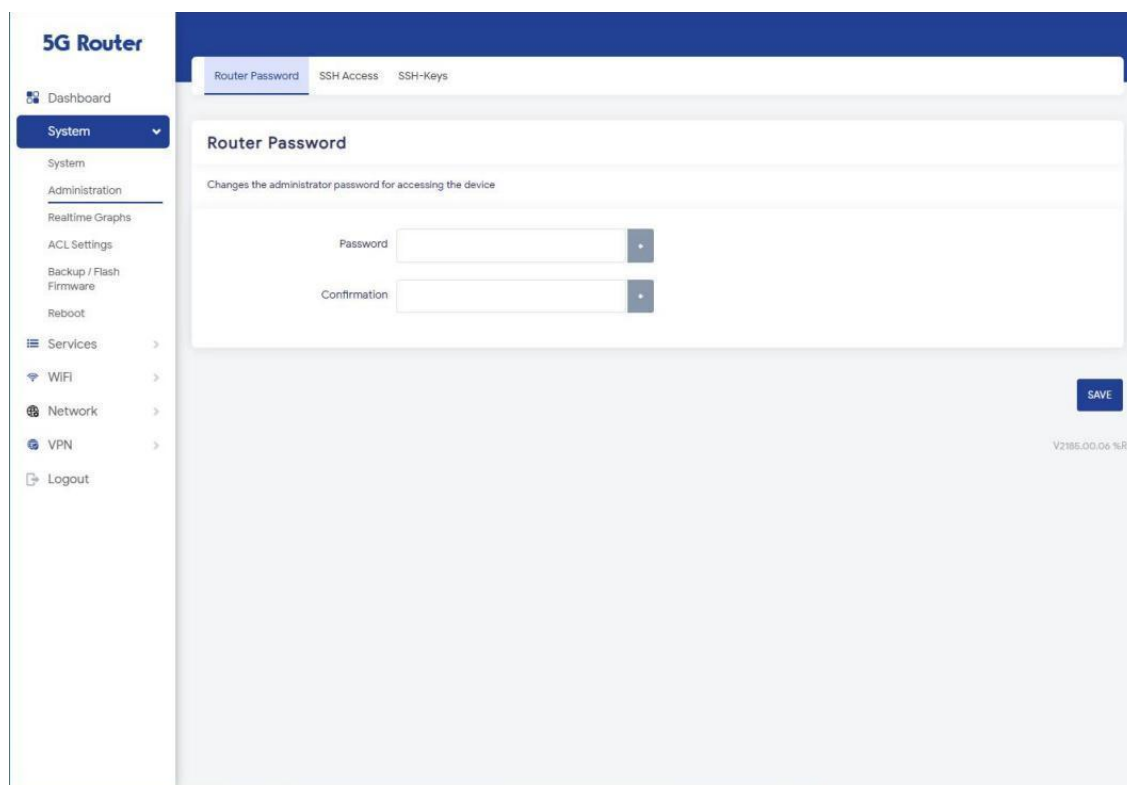
[ 0.000000] Booting Linux on physical CPU 0x0000000000 [0x410fd134]
[ 0.000000] Linux version 5.4.238 (frank@ce795ed5fec2) (gcc version 8.4.0 (OpenWrt GCC 8.4.0 r16847-18282da1e)) #0 SMP Mon Apr 17 13:15:36 2023
[ 0.000000] Machine model: MovingComm 5G Router i800
[ 0.000000] earlycon: uart250 at MMIO32 0x0000000011002000 (options *)
[ 0.000000] printk: bootconsole [uart250] enabled
[ 0.000000] Cn node 0 totalpages: 64592
[ 0.000000] DMA32 zone: 1024 pages used for memmap
[ 0.000000] DMA32 zone: 0 pages reserved
[ 0.000000] DMA32 zone: 64592 pages, LIFO batch:15
[ 0.000000] pci: probing for condt method from DT.
[ 0.000000] pci: PSCIv1.1 detected in firmware.
[ 0.000000] pci: Using standard PSCI v0.2 function IDs
[ 0.000000] pci: MSHRAT, INFO type not supported.
[ 0.000000] pci: SMC Calling Convention v1.0
[ 0.000000] percpu: Embedded 20 pages/cpu s44056 r8192 d29672 u81920
[ 0.000000] pcpu-alloc: s44056 r8192 d29672 u81920 alloc=20*4096
[ 0.000000] pcpu-alloc: [0] 0 [0] 1
[ 0.000000] Detected VPI1 i-cache on CPU0
[ 0.000000] CPU features: detected: GIC system register/CPU interface
[ 0.000000] CPU features: kernel page table isolation disabled by kernel configuration
[ 0.000000] Built 1 zonelists, mobility grouping on. Total pages: 63568
[ 0.000000] Kernel command line: console=ttyS0,115200n1 loglevel=8 earlycon=uart250,mmio32,0x11002000
[ 0.000000] Dentry cache hash table entries: 32768 (order=6, 262144 bytes, linear)
[ 0.000000] Inode-cache hash table entries: 16384 (order=5, 131072 bytes, linear)
[ 0.000000] mem auto-init: stack:off, heap alloc:off, heap free:off
[ 0.000000] Memory: 230456K/262144K available (6747K kernel code, 448K init, 291K bss, 27712K reserved, 0K cma-reserved)
[ 0.000000] SLUB: HWalign=64, Order=0-3, MinObjects=0, CPUs=2, Nodes=1
[ 0.000000] rcu: Hierarchical RCU implementation.
[ 0.000000] rcu: CONFIG_RCU_FANOUT set to non-default value of 32.
[ 0.000000] rcu: RCU calculated value of scheduler-enlistment delay is 25 jiffies.
[ 0.000000] NR_IRQS: 64 nr_irqs: 64, preallocated irqs: 0
[ 0.000000] GICv3: GIC: Using split EOI/Deactivate mode
[ 0.000000] GICv3: 640 SPIs implemented
[ 0.000000] GICv3: 0 Extended SPIs implemented
[ 0.000000] GICv3: Distributor has no Range Selector support
[ 0.000000] GICv3: 16 PPIs implemented
[ 0.000000] GICv3: no VPI support, no direct LPI support
[ 0.000000] GICv3: CPU0: found redistributor 0 region 0:0x000000000c080000
[ 0.000000] arch timer: cp15 timer(s) running at 13.000MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: max: 0xffffffffff max_cycles: 0x27952eac, max_idle_ns: 440795202429 ns
[ 0.000000] sched_clock: 64 bits at 13MHz, resolution 76ns, wraps every 439804651107ns
[ 0.000000] Calibrating delay loop (skipped), value calculated using timer frequency: 26.00 BogoMIPS (lpj=52000)
[ 0.000165] pid_max: default: 32768 minimum: 301
[ 0.023233] Mount-cache hash table entries: 512 (order: 0, 4096 bytes, linear)
[ 0.030444] Mountpoint-cache hash table entries: 512 (order: 0, 4096 bytes, linear)
[ 0.039093] ASID allocator initialised with 65536 entries
[ 0.044598] rcu: Hierarchical SRCU implementation.
[ 0.049722] smp: Bringing up secondary CPUs...
[ 0.054598] Detected VPI1 i-cache on CPU1
[ 0.054417] GICv3: CPU1: found redistributor 1 region 0:0x000000000c0a0000
[ 0.054639] CPU: Booted secondary processor 0x0000000001 [0x410fd134]

```

Administration

Router Password

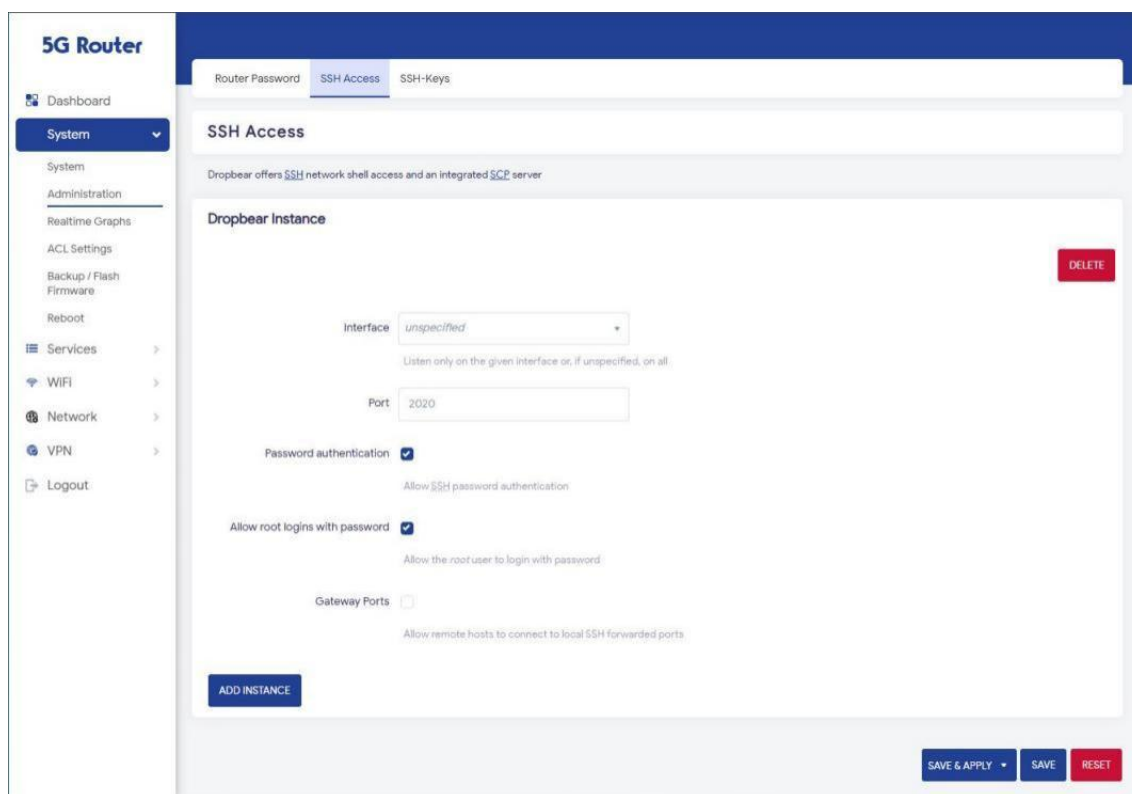
Change the administrator password for accessing the device.



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.

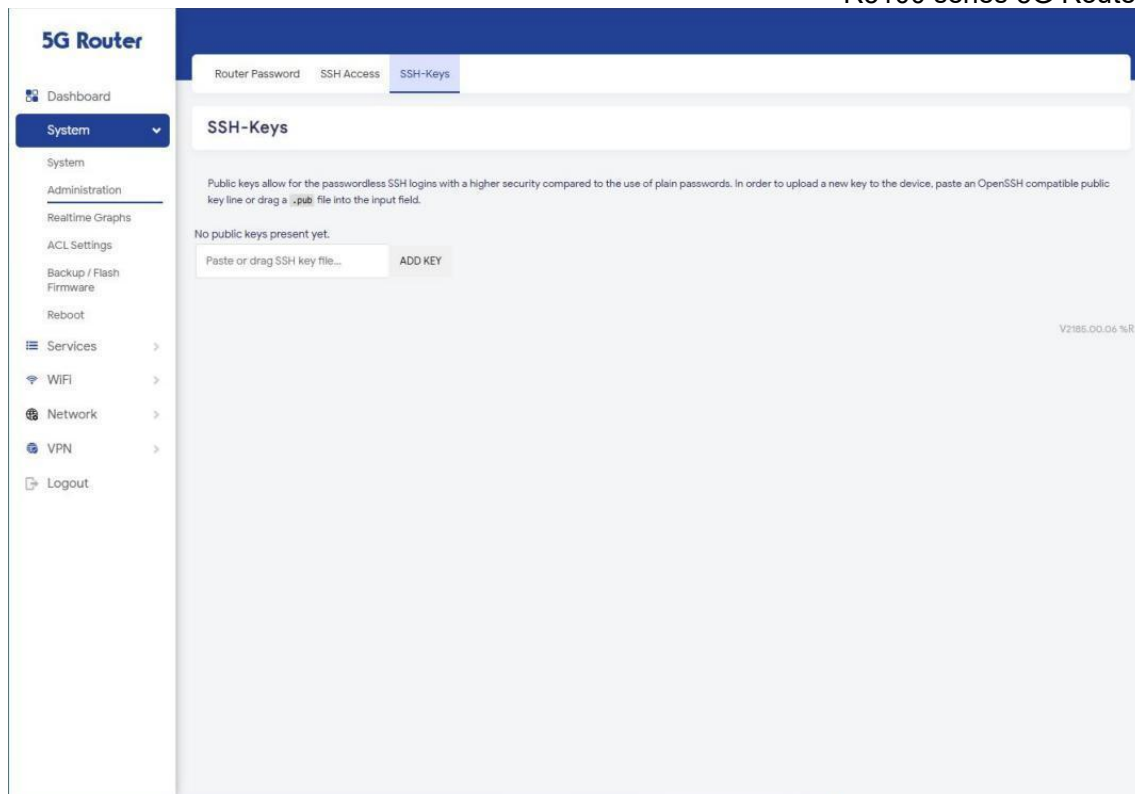
SSH Access

Change information about SSH access and SCP services.



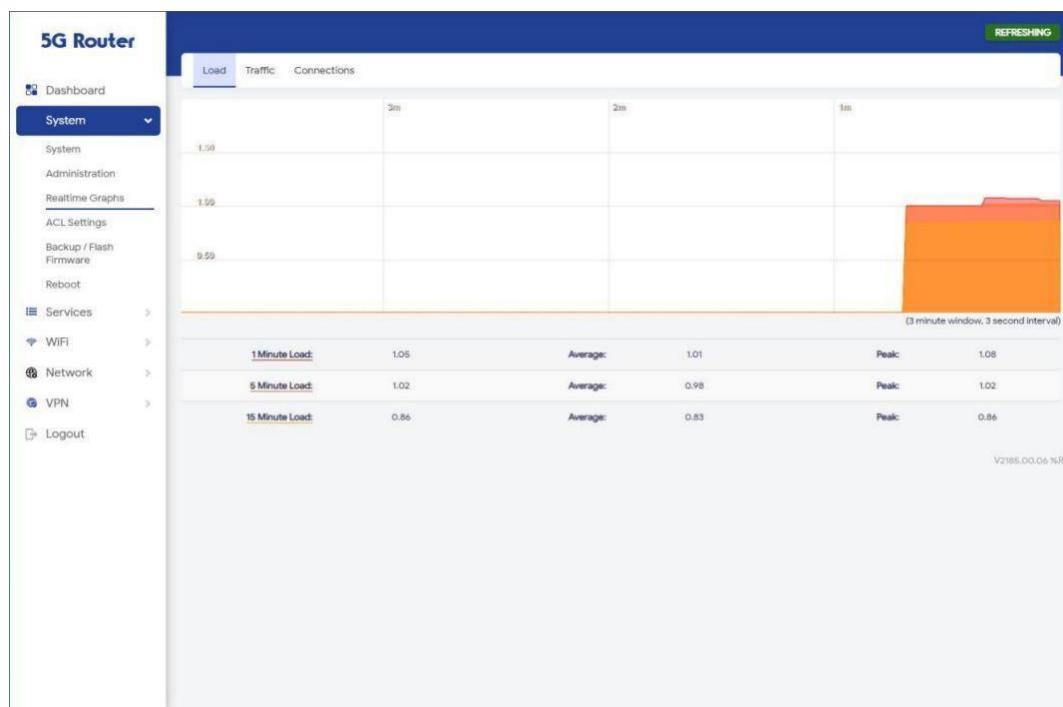
SSH-Keys

Change the public key file for SSH access.



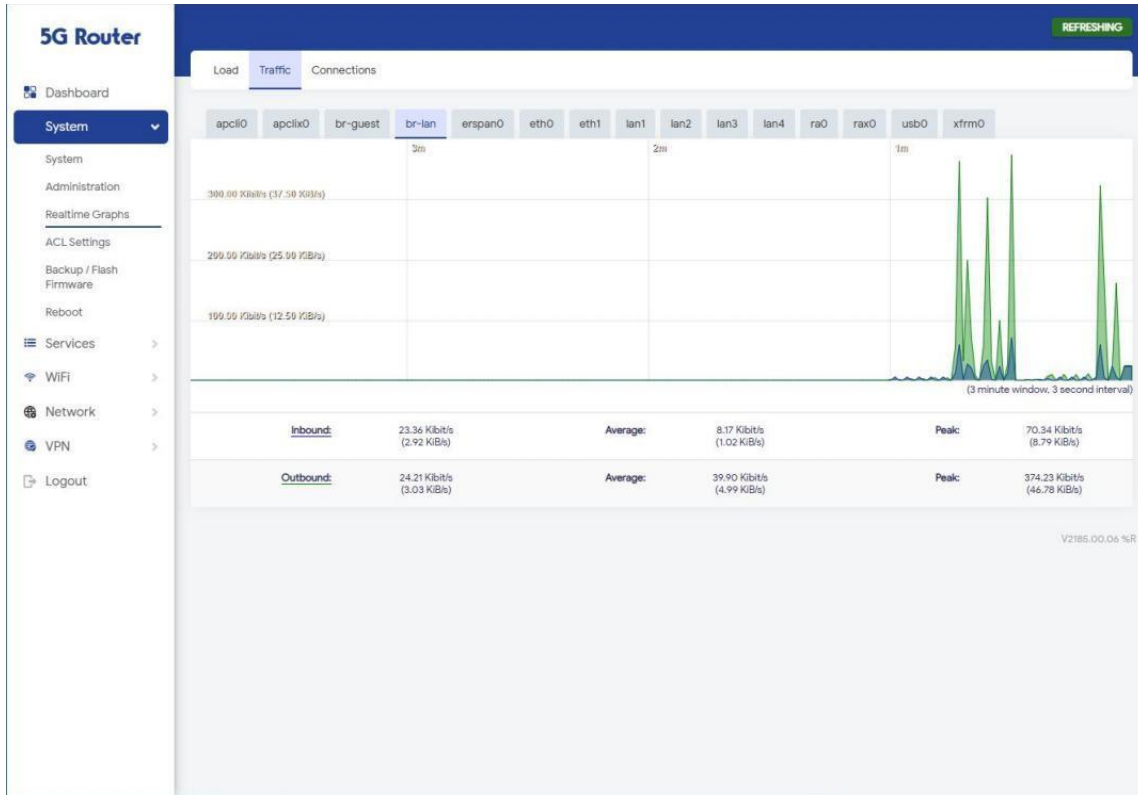
Realtime Graphs

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



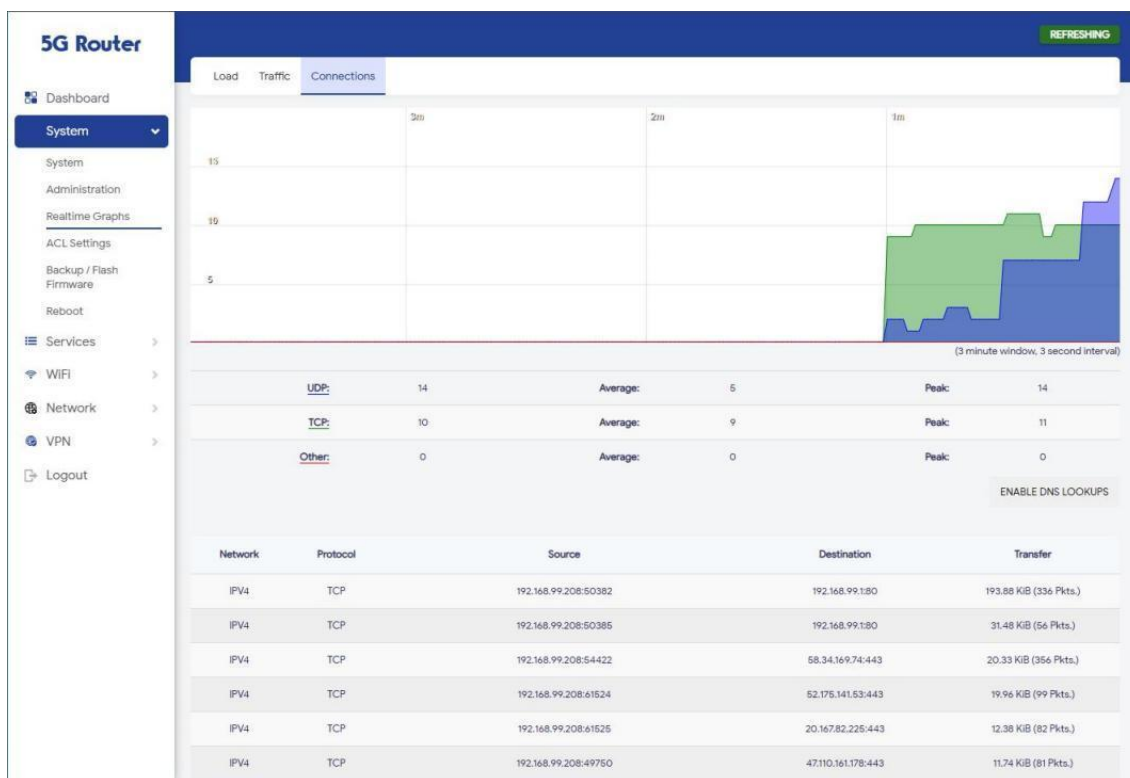
Traffic

Displays the traffic usage of the interface.



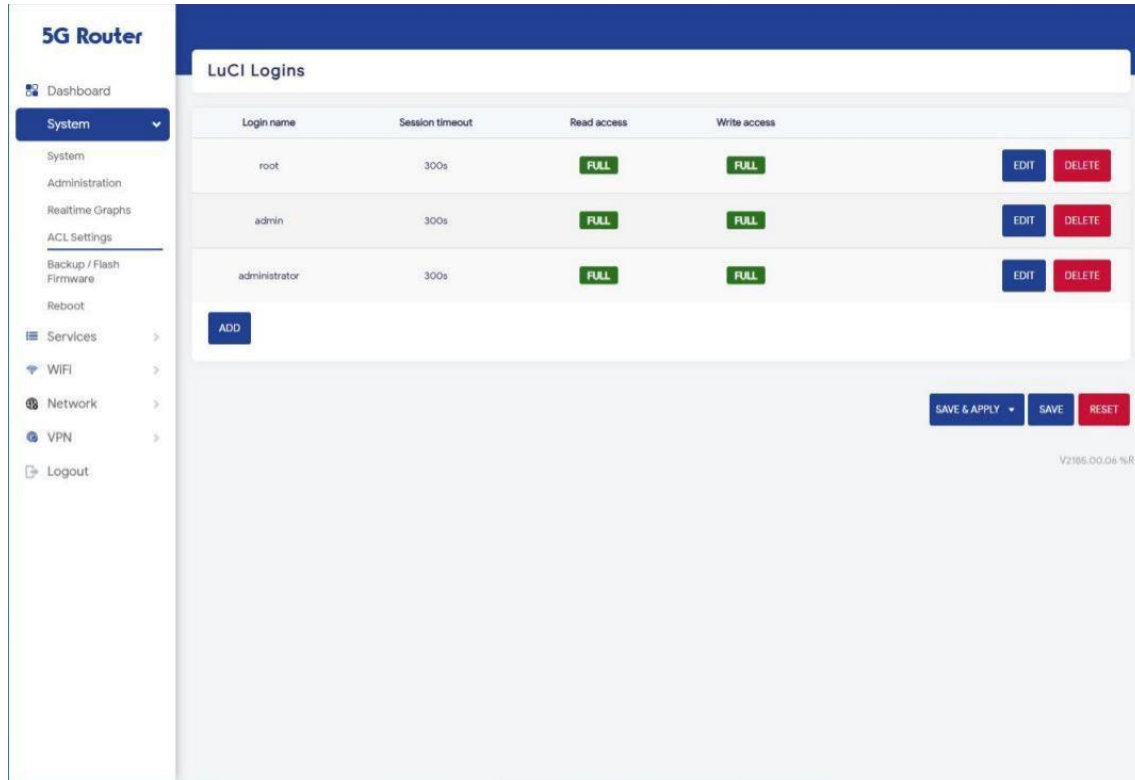
Connections

Displays the connectivity of network traffic.



ACL Settings

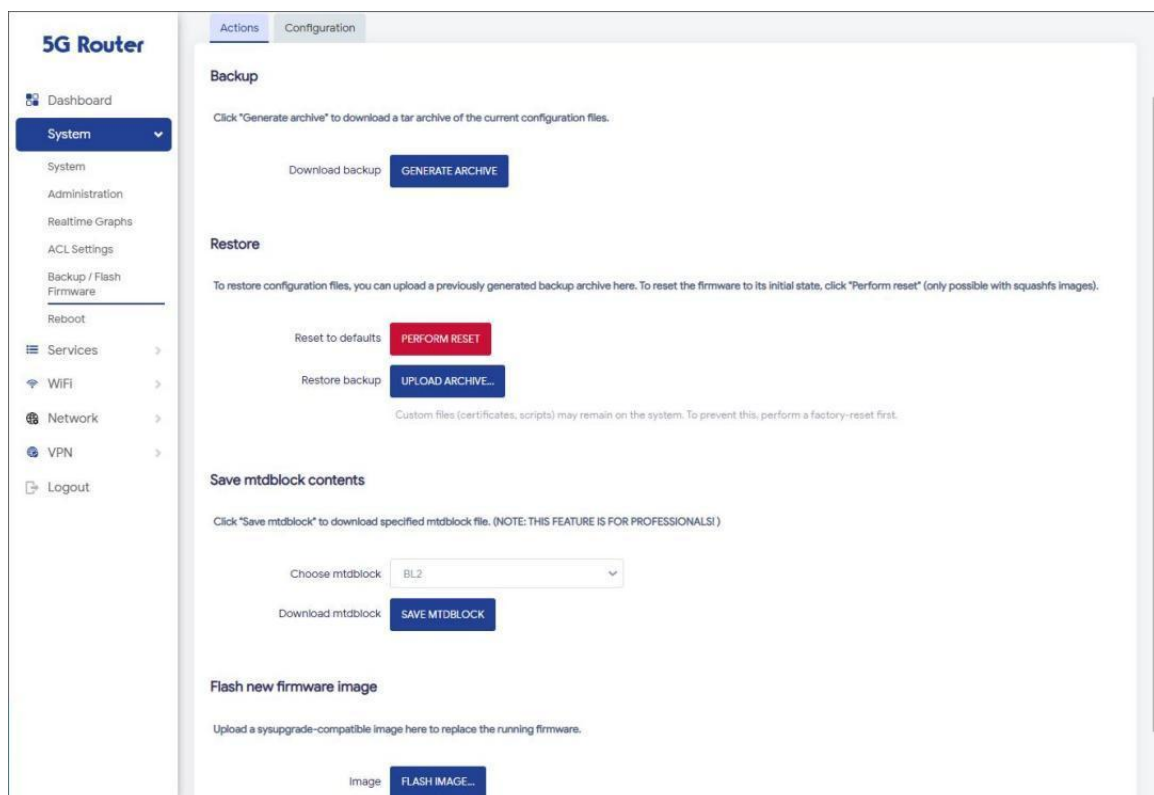
Configure accounts and permissions for the router administration page.



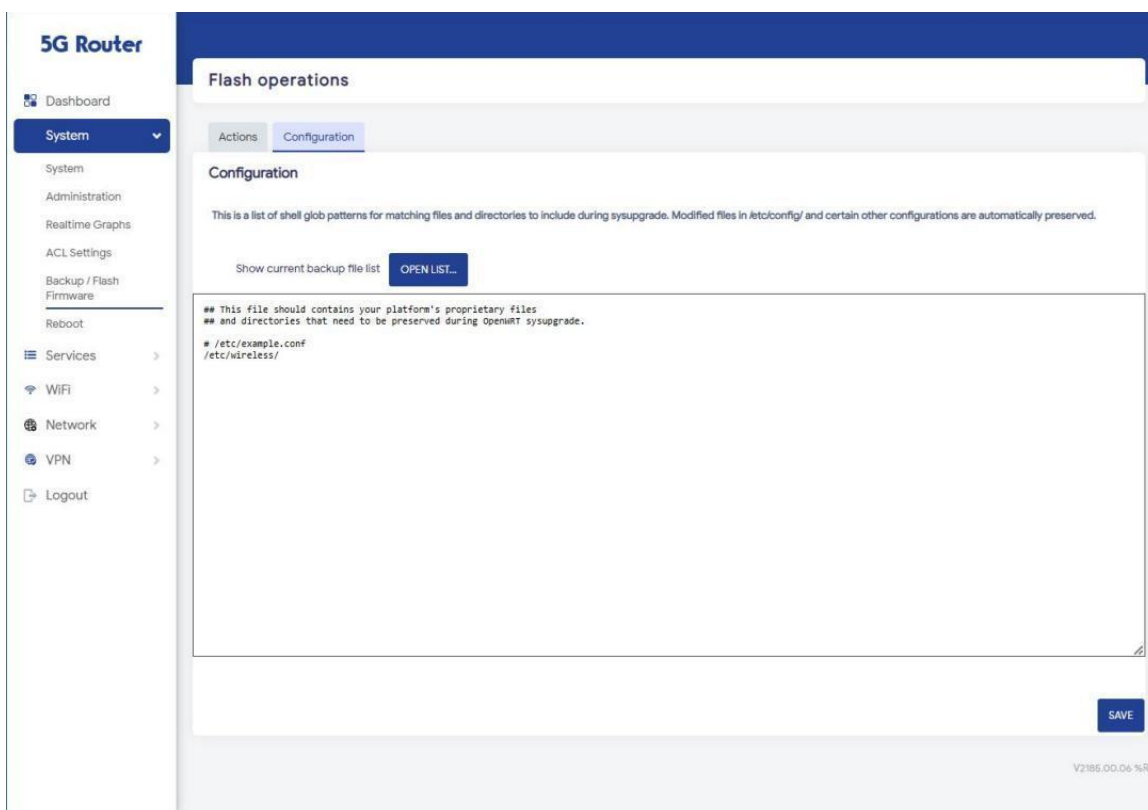
Backup / Flash Firmware

Flash operations

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

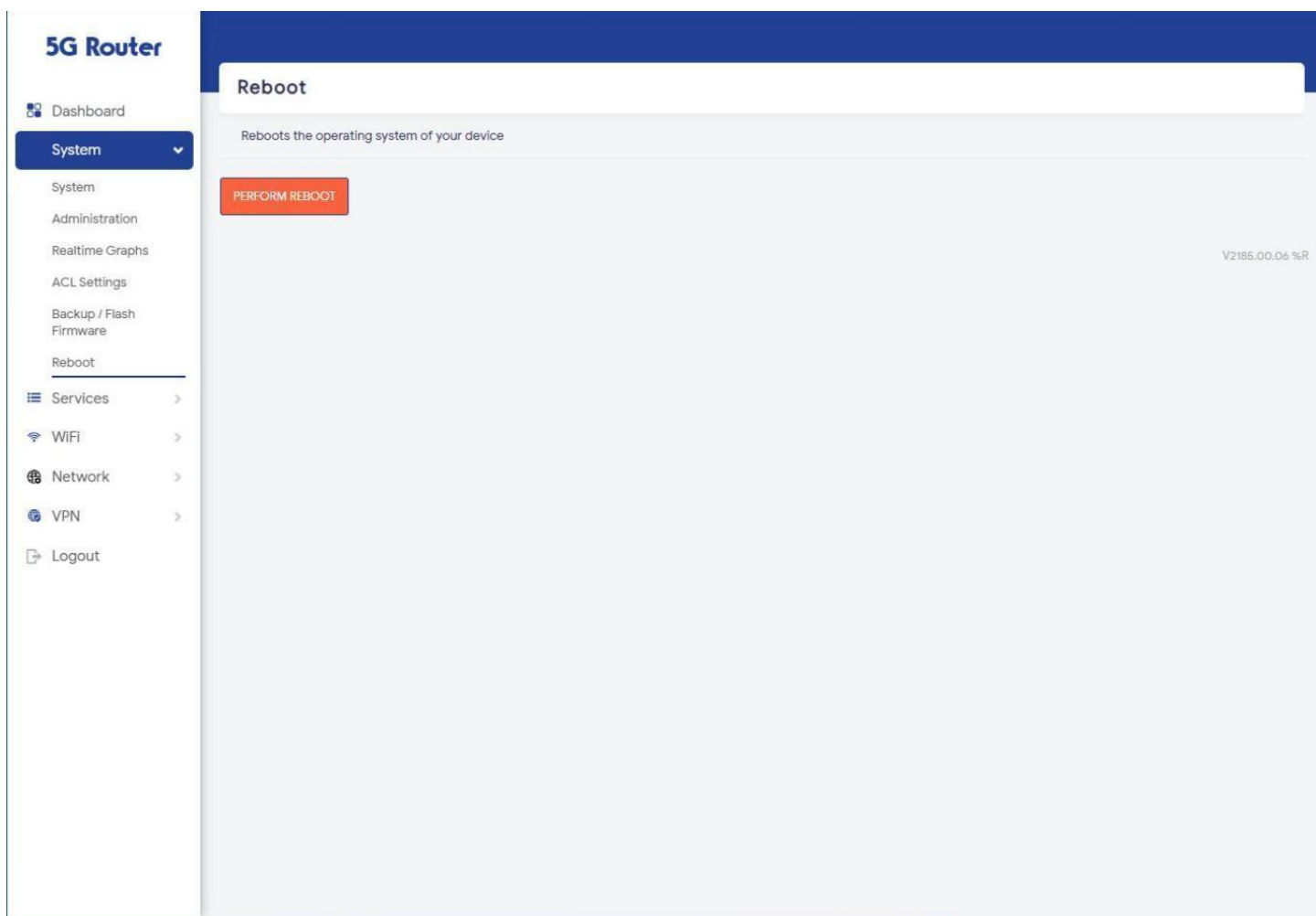


Configuration



Reboot

Restart the system on your device.



Service

Remote Manager

Configure information about the remote management server

5G Router

Dashboard

System

Services

Remote Manager

uHTTPd

Dynamic DNS

UPnP

Watchcat

Policy Routing

MWAN3 Helper

SNMPD

ser2net

Network Shares

WiFi

Network

VPN

Logout

Remote Manager

Enable ☒

Server Address

Port

The range is 1000 to 65535

GPS Latitude

GPS Longitude

SAVE & APPLY

SAVE

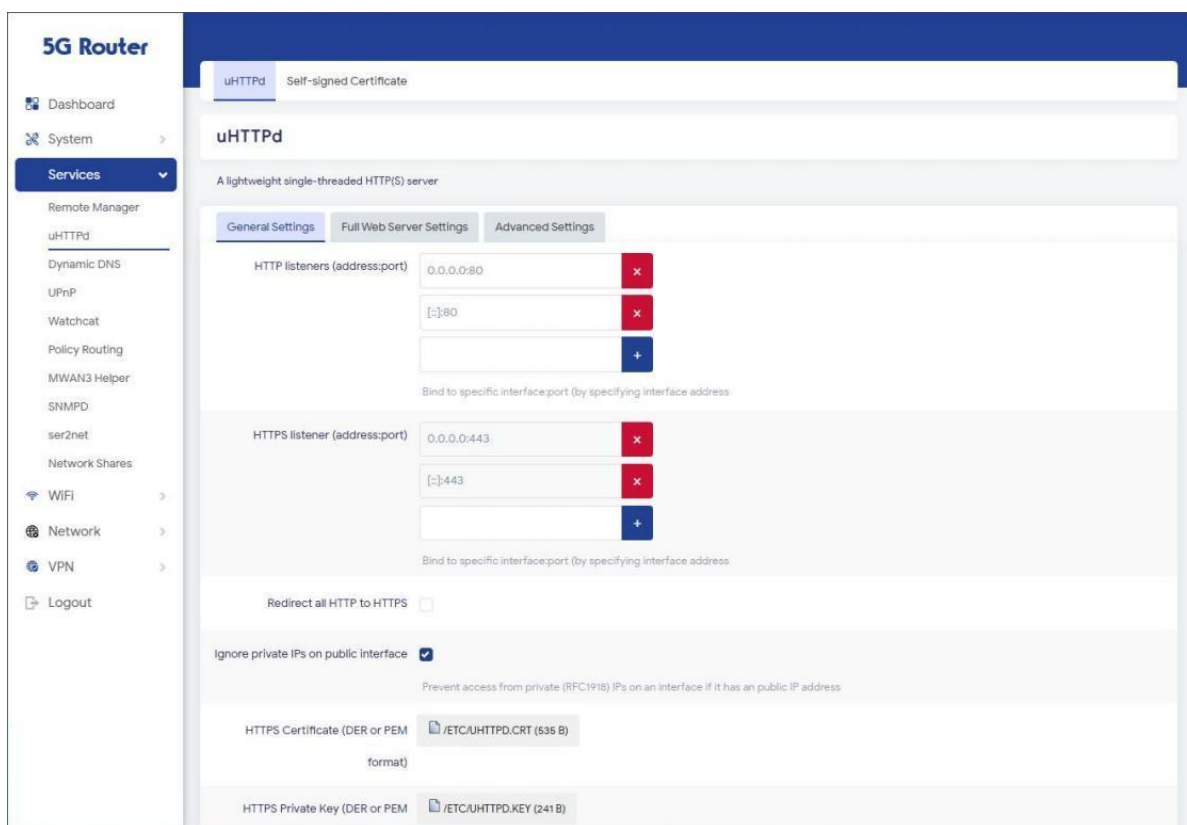
RESET

V2185.00.06 %R

uHTTPd

General Settings

Configure the general settings for uHTTPd



Self-singed Certificate

Configure information about self-signed certificates.

5G Router

Dashboard

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uHTTPd

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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

5G Router

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

Dynamic DNS

Information

Global Settings

Dynamic DNS Version 2.8.2-12

State DDNS Autostart enabled

STOP DDNS

RESTART DDNS

Services list last update NO_LIST

UPDATE DDNS SERVICES LIST

DNS requests via TCP not supported

BusyBox's nslookup and hostip do not support to specify to use TCP instead of default UDP when requesting DNS server!
- You should install 'bind-host' or 'knot-host' or 'drill' package for DNS requests.

Services

Status	Name	Lookup Hostname Registered IP	Enabled	Last Update Next Update	
Not Running	myddns_ipv4	yourhost.example.com No Data	☐	Never Stopped	STOP RELOAD EDIT DELETE
Not Running	myddns_ipv6	yourhost.example.com No Data	☐	Never Stopped	STOP RELOAD EDIT DELETE

ADD NEW SERVICES...

Global Settings

Configure advanced settings for dynamic DNS.

5G Router

Dashboard

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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

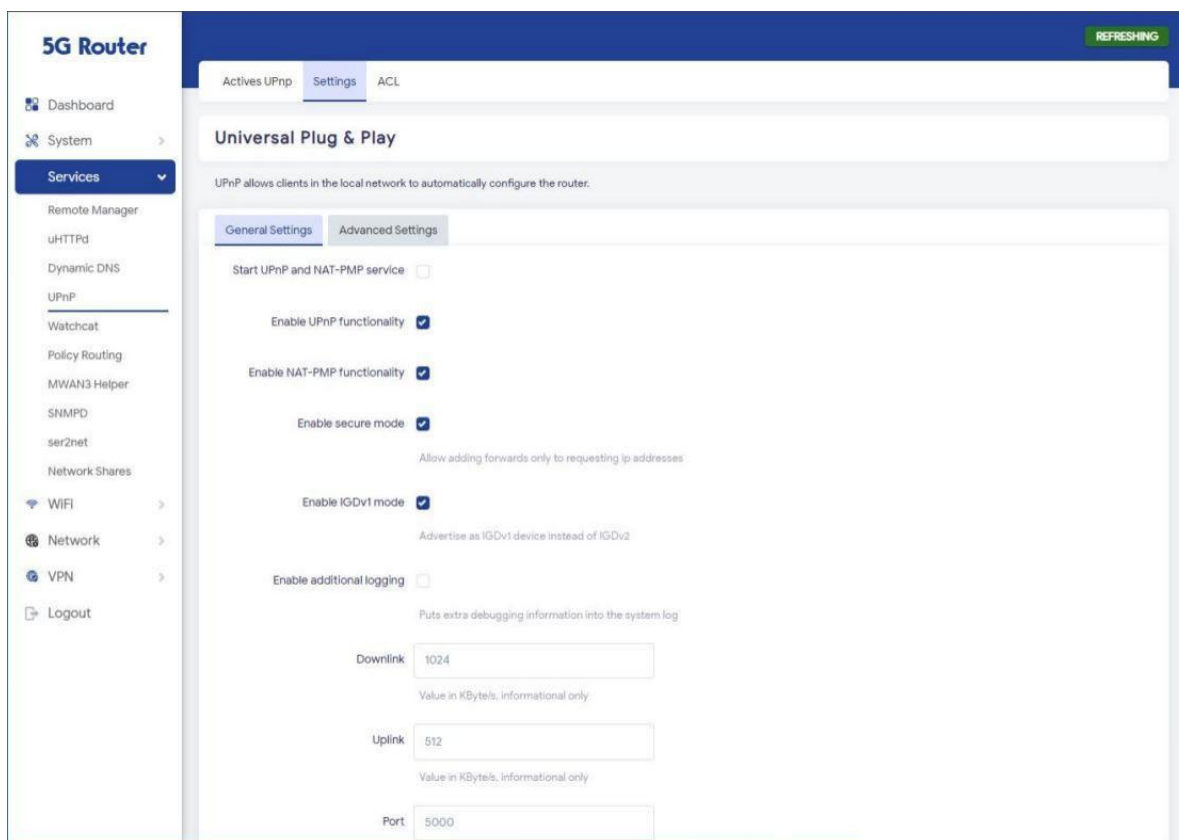
SAVE

RESET

V2185.00.06 %R

Settings

Configure the general settings for UPnP.



5G Router

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Watchcat
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SNMPD
ser2net
Network Shares
WIFI
Network
VPN
Logout

Active 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

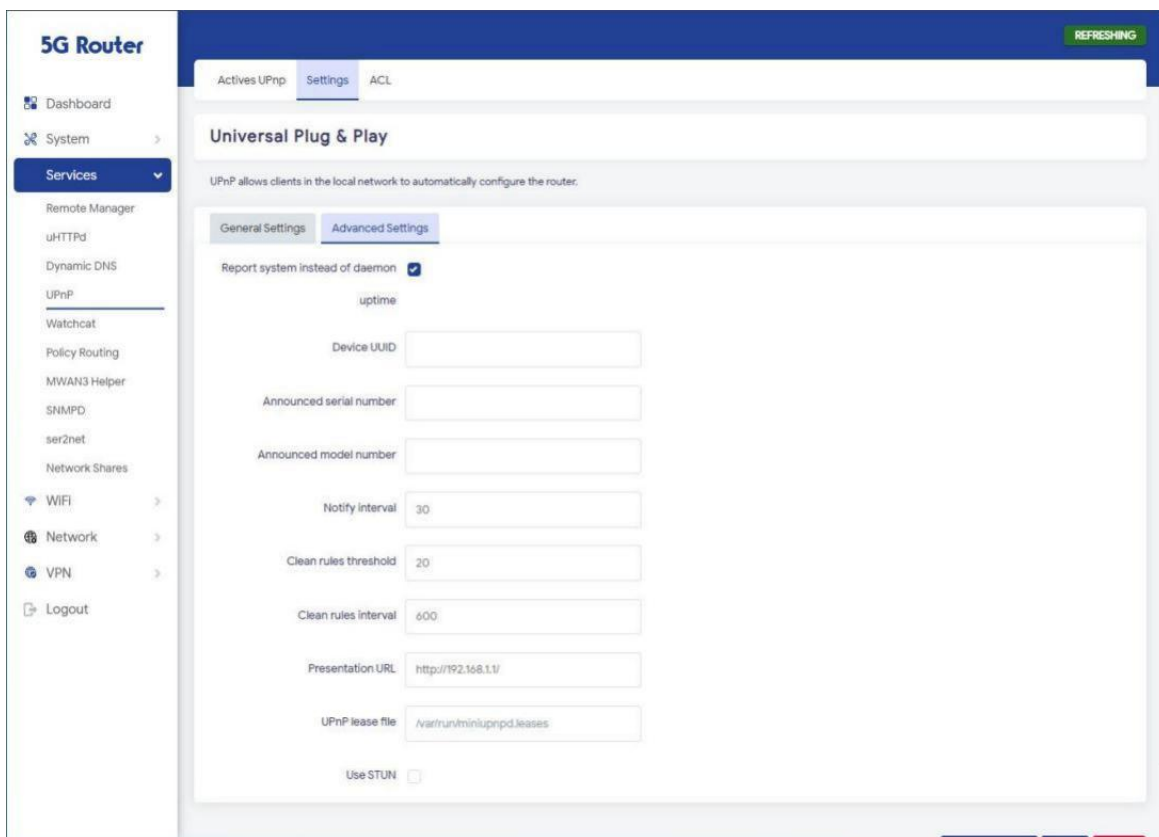
Downlink
Value in KBytes, informational only

Uplink
Value in KBytes, informational only

Port

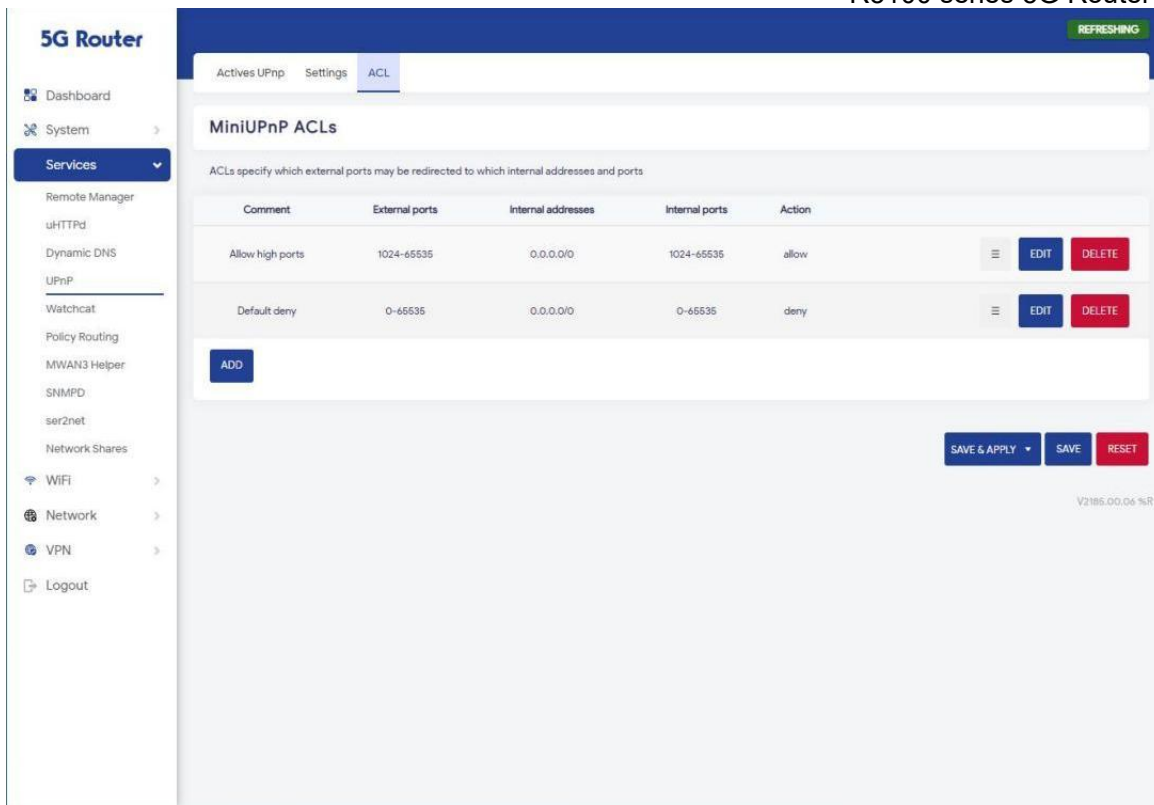
Advanced Settings

Configure advanced settings for UPnP.



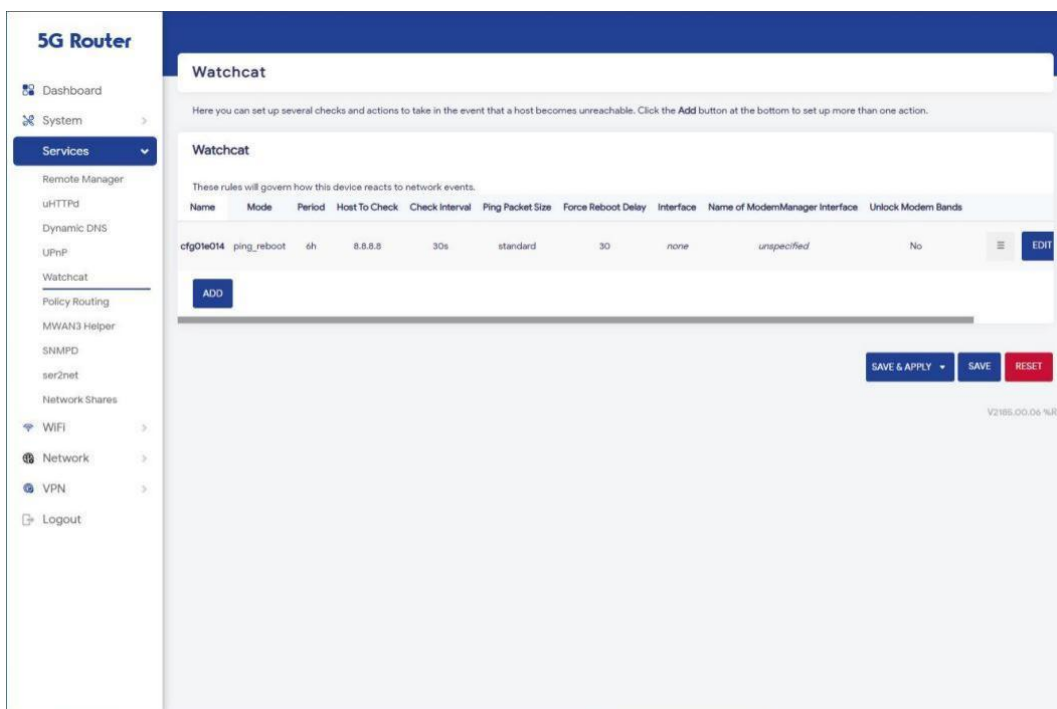
ACL

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



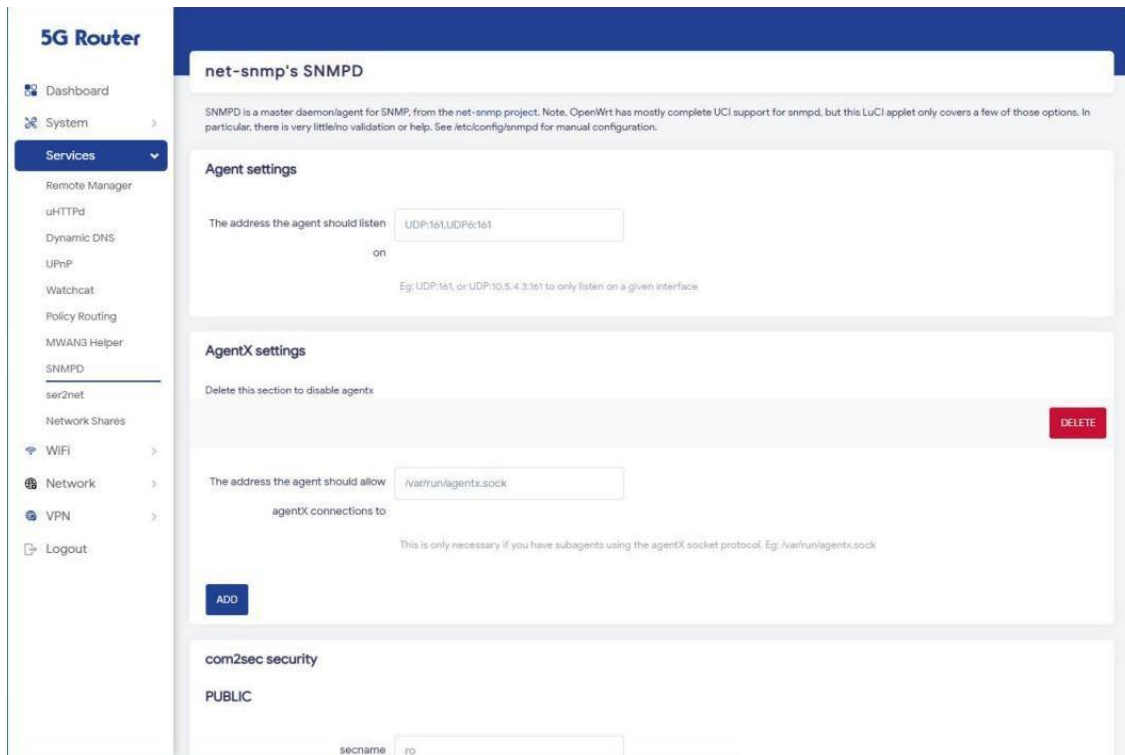
Watchcat

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



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
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- 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.

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Policy Routing
MWAN3 Helper
SNMPD
ser2net
Network Shares
WIFI
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VPN
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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.

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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

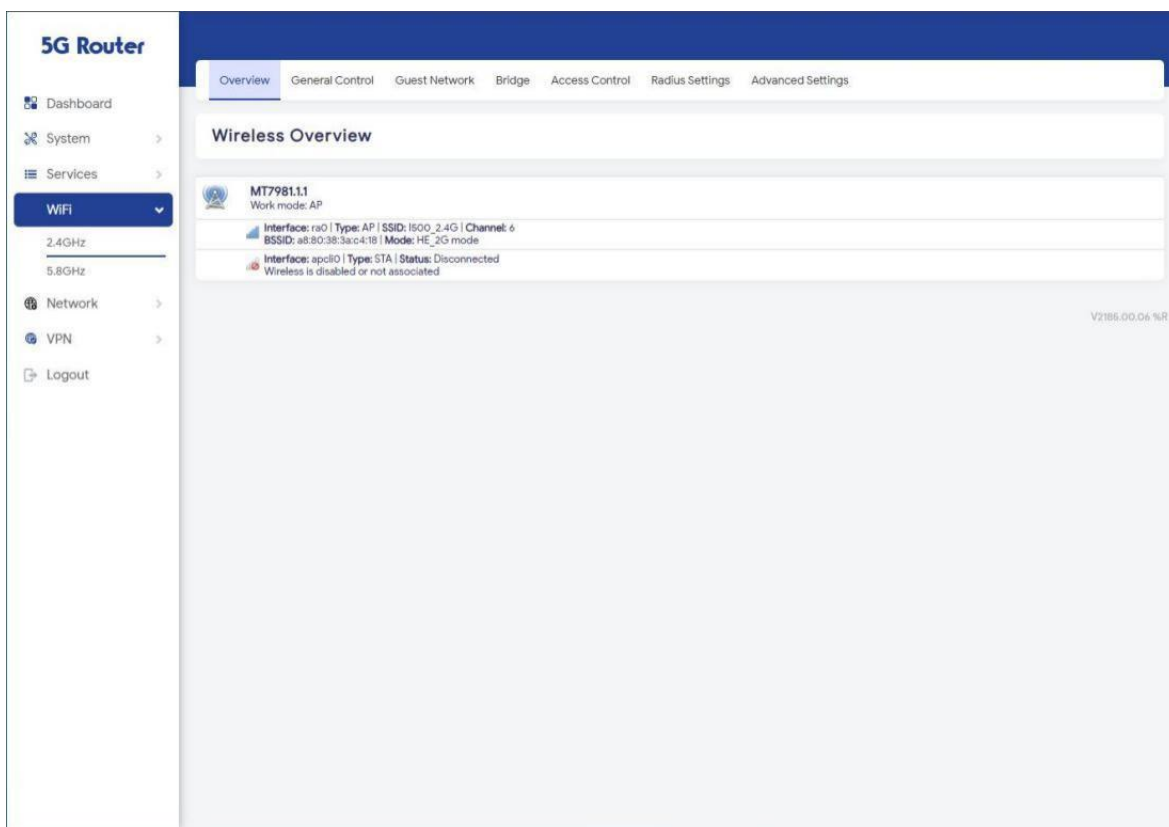
SAVE & APPLY
SAVE
RESET

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

I5000_2.4G

Hide ESSID

Wireless Mode

HE_2G mode

Authentication Method

WPA2-PSK

WPA Encryption

AES

WPA Pre-Shared Key

Rekey Method

Disable rekey

HT Bw

20/40 MHz

Radio Channel

2437MHz (Channel 6)

Extension Channel

Above

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

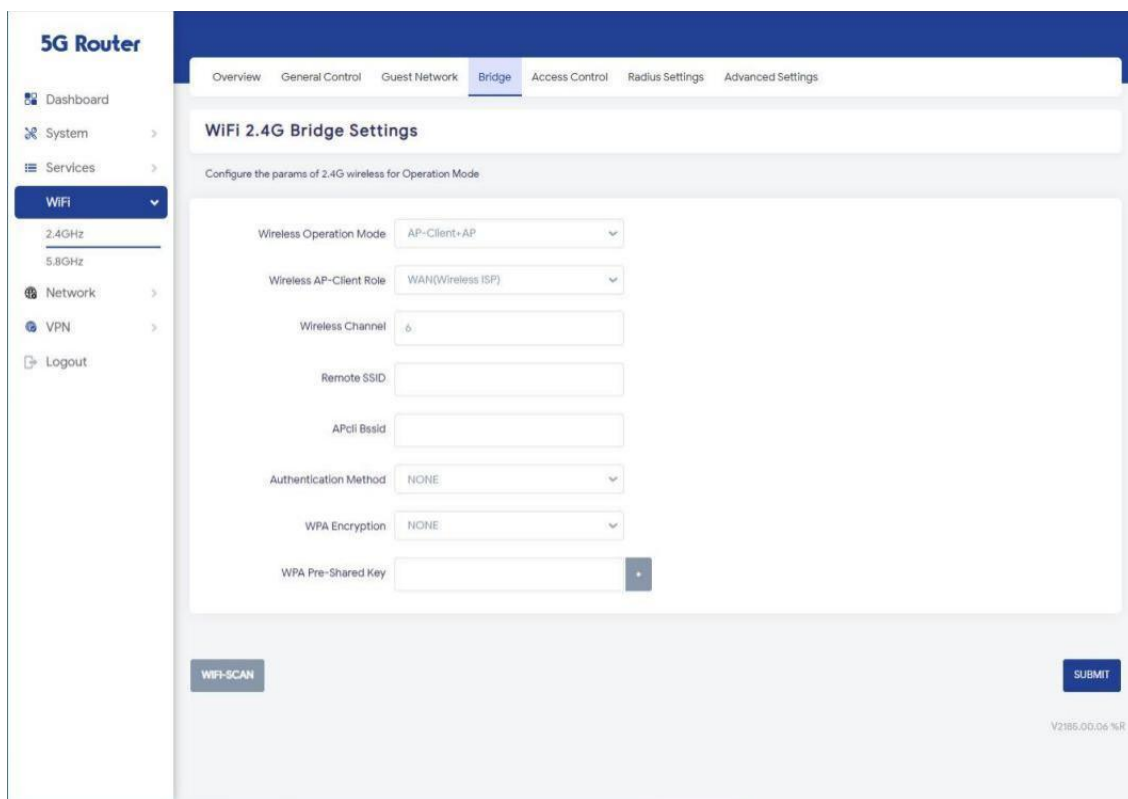
5.8GHz

Submit

V2185.00.06 %R

Bridge

Configure the parameters of 2.4G wireless for Operation Mode.



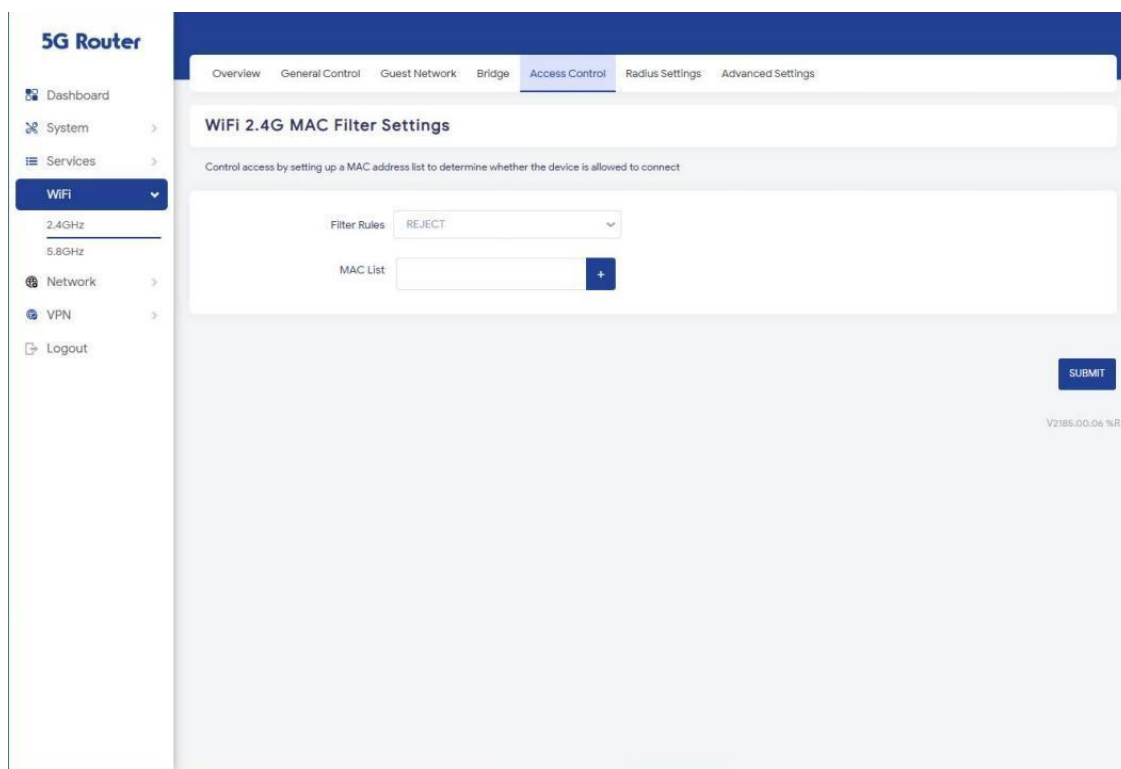
The screenshot displays the '5G Router' web interface. On the left is a sidebar menu with options: Dashboard, System, Services, WiFi (selected), Network, VPN, and Logout. The 'WiFi' section is expanded, showing '2.4GHz' and '5.8GHz' options. The main content area is titled 'WiFi 2.4G Bridge Settings' and includes a sub-header 'Configure the params of 2.4G wireless for Operation Mode'. The settings are as follows:

- Wireless Operation Mode: AP-Client+AP
- Wireless AP-Client Role: WAN(Wireless ISP)
- Wireless Channel: 6
- Remote SSID: (empty text field)
- APcli Bssid: (empty text field)
- Authentication Method: NONE
- WPA Encryption: NONE
- WPA Pre-Shared Key: (empty text field with a toggle icon)

At the bottom of the settings area, there is a 'WIFI-SCAN' button on the left and a 'SUBMIT' button on the right. The version 'V2185.00.04 %R' is displayed 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

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2.4GHz
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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.

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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
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- WiFi
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 - DHCP and DNS
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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。

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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 +

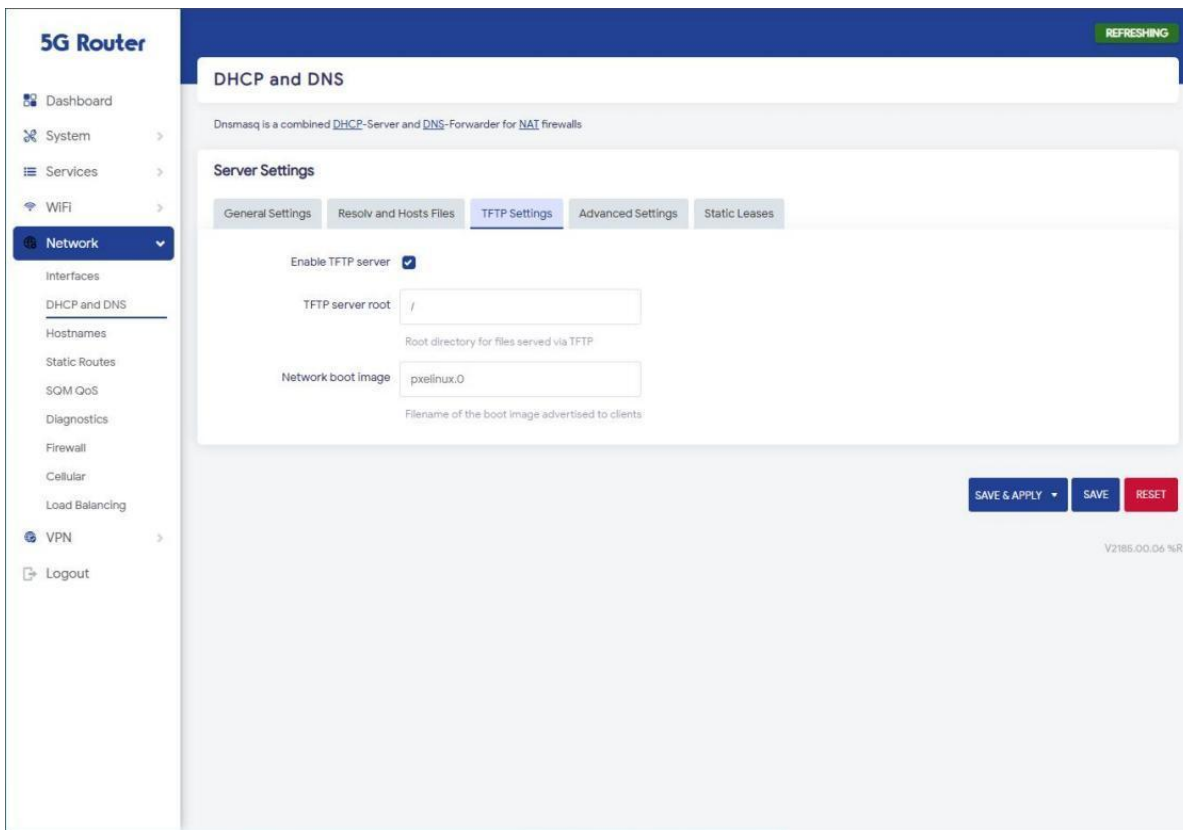
List of domains to force to an IP address.

Rebind protection ☒

Discard upstream RFC1918 responses

TFTP Settings

Configure the general settings for the TFTP server.



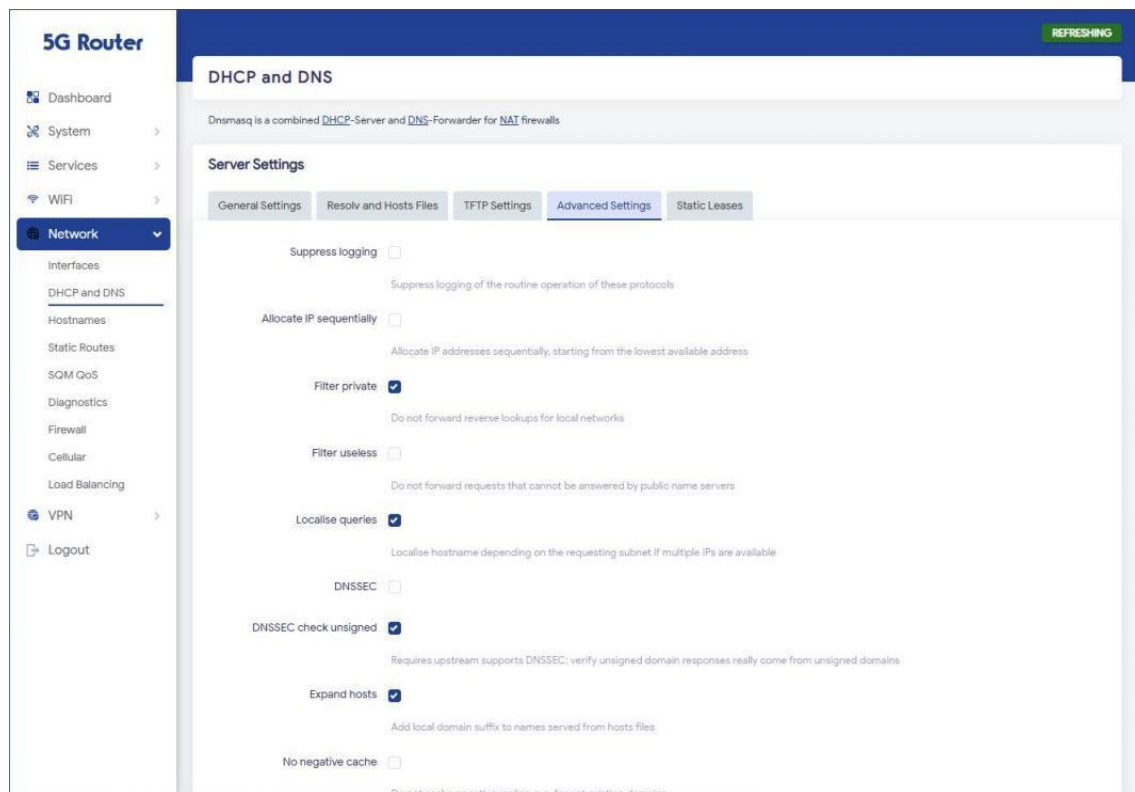
The screenshot shows the '5G Router' web interface. On the left is a navigation menu with options: Dashboard, System, Services, WiFi, Network (selected), Interfaces, DHCP and DNS (selected), Hostnames, Static Routes, SQM QoS, Diagnostics, Firewall, Cellular, Load Balancing, VPN, and Logout. The main content area is titled 'DHCP and DNS' and includes a 'REFRESHING' button. Below this is a 'Server Settings' section with tabs for General Settings, Resolv and Hosts Files, TFTP Settings (active), Advanced Settings, and Static Leases. The TFTP Settings section contains the following fields:

- Enable TFTP server:** A checkbox that is checked.
- TFTP server root:** A text input field containing the value '/'. Below it is a tooltip: 'Root directory for files served via TFTP'.
- Network boot image:** A text input field containing the value 'pxelinux.0'. Below it is a tooltip: 'Filename of the boot image advertised to clients'.

At the bottom right of the form are three buttons: 'SAVE & APPLY' (with a dropdown arrow), 'SAVE', and 'RESET'. The version number 'V2185.00.06 %R' is displayed in the bottom right corner.

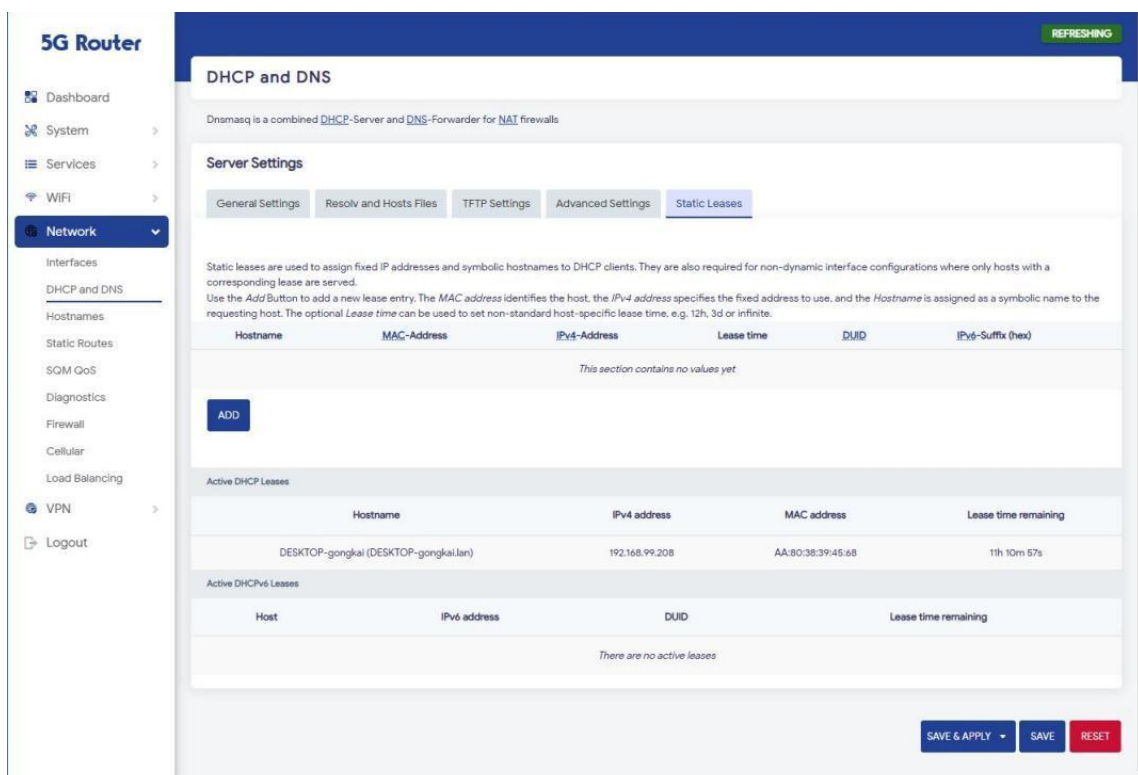
Advanced Settings

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

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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.

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OverviewSetting

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
--------------	-------------	-----------

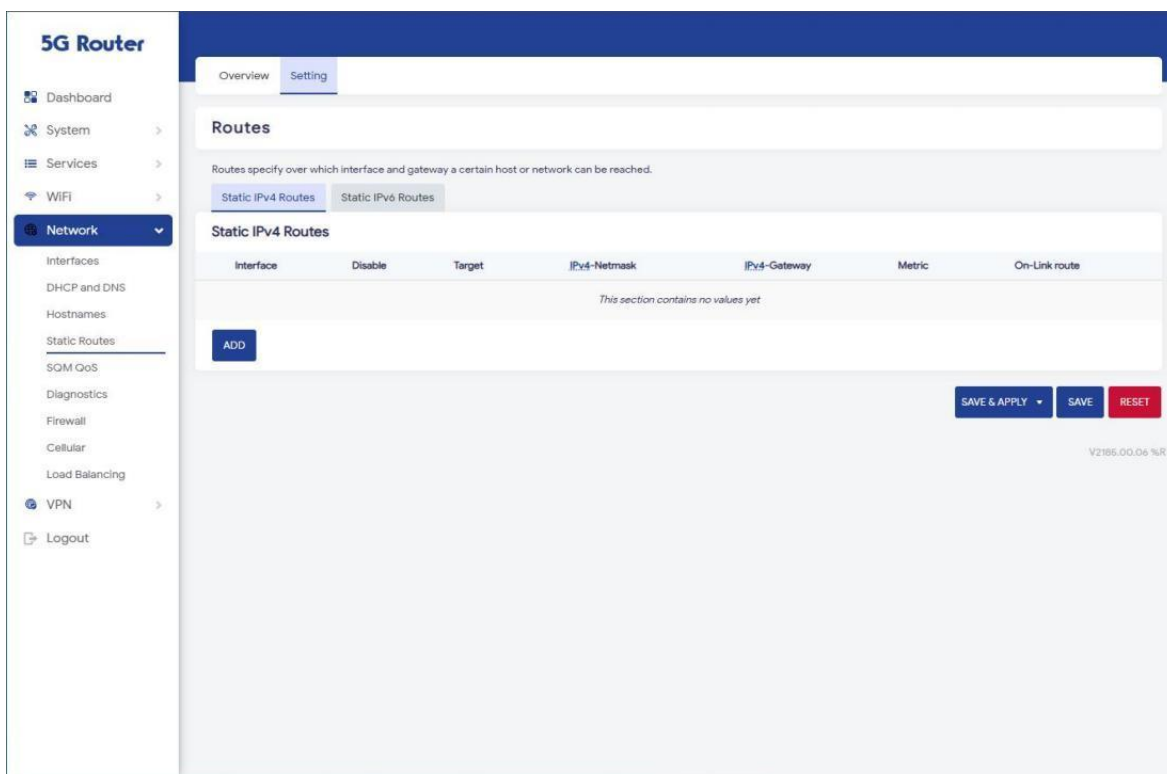
Active IPv6-Routes

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

Setting

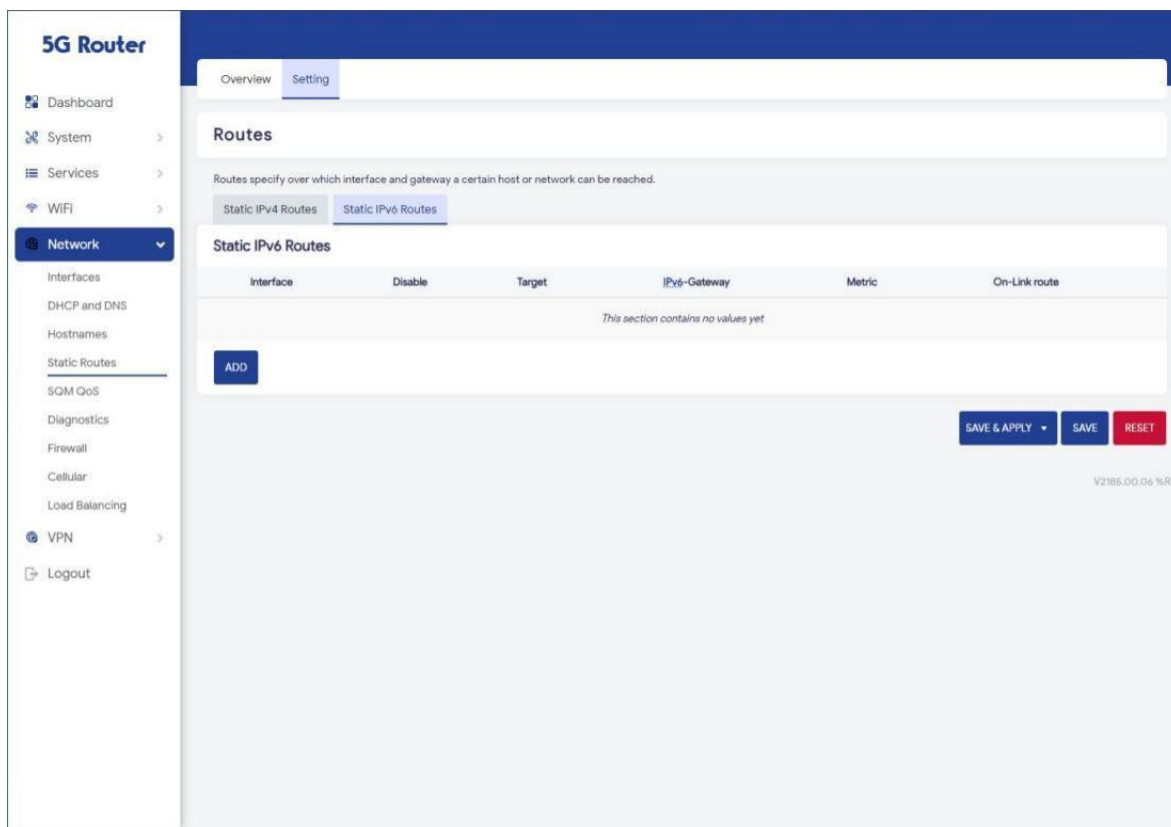
Static IPv4 Routes

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



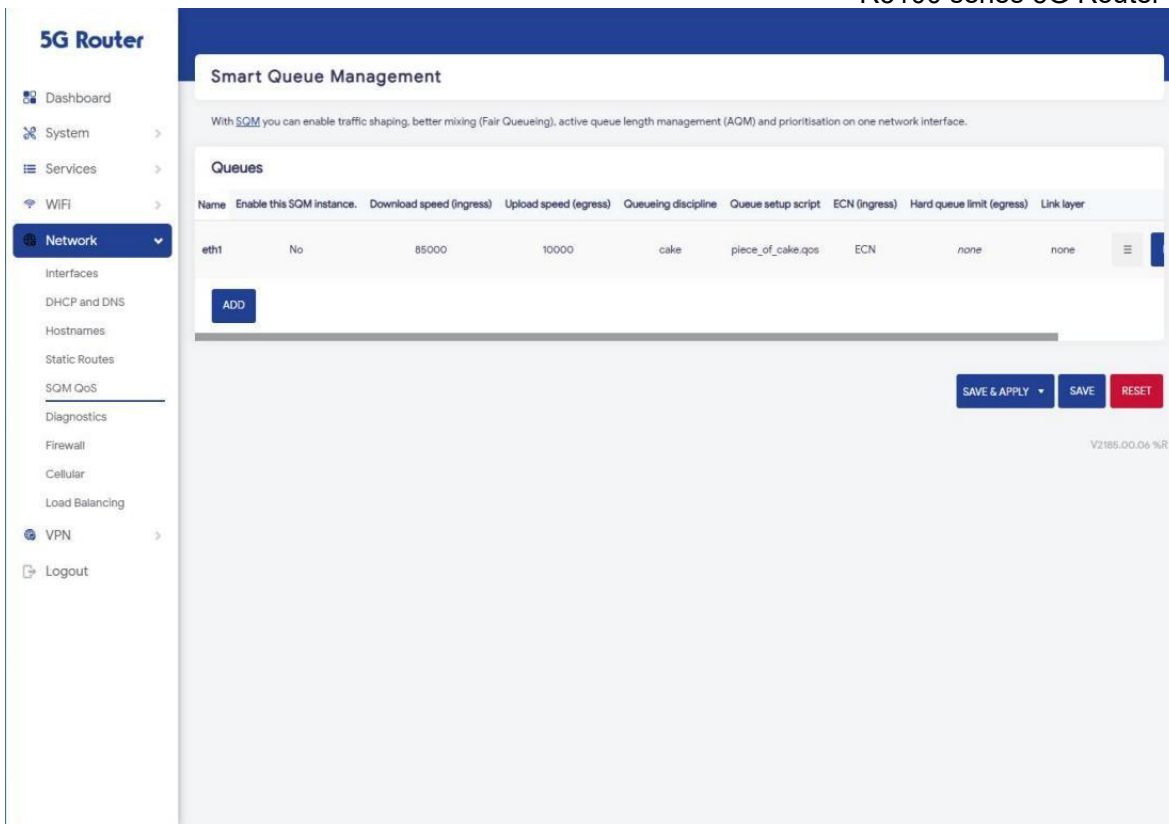
Static IPv6 Routes

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.

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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

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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 *

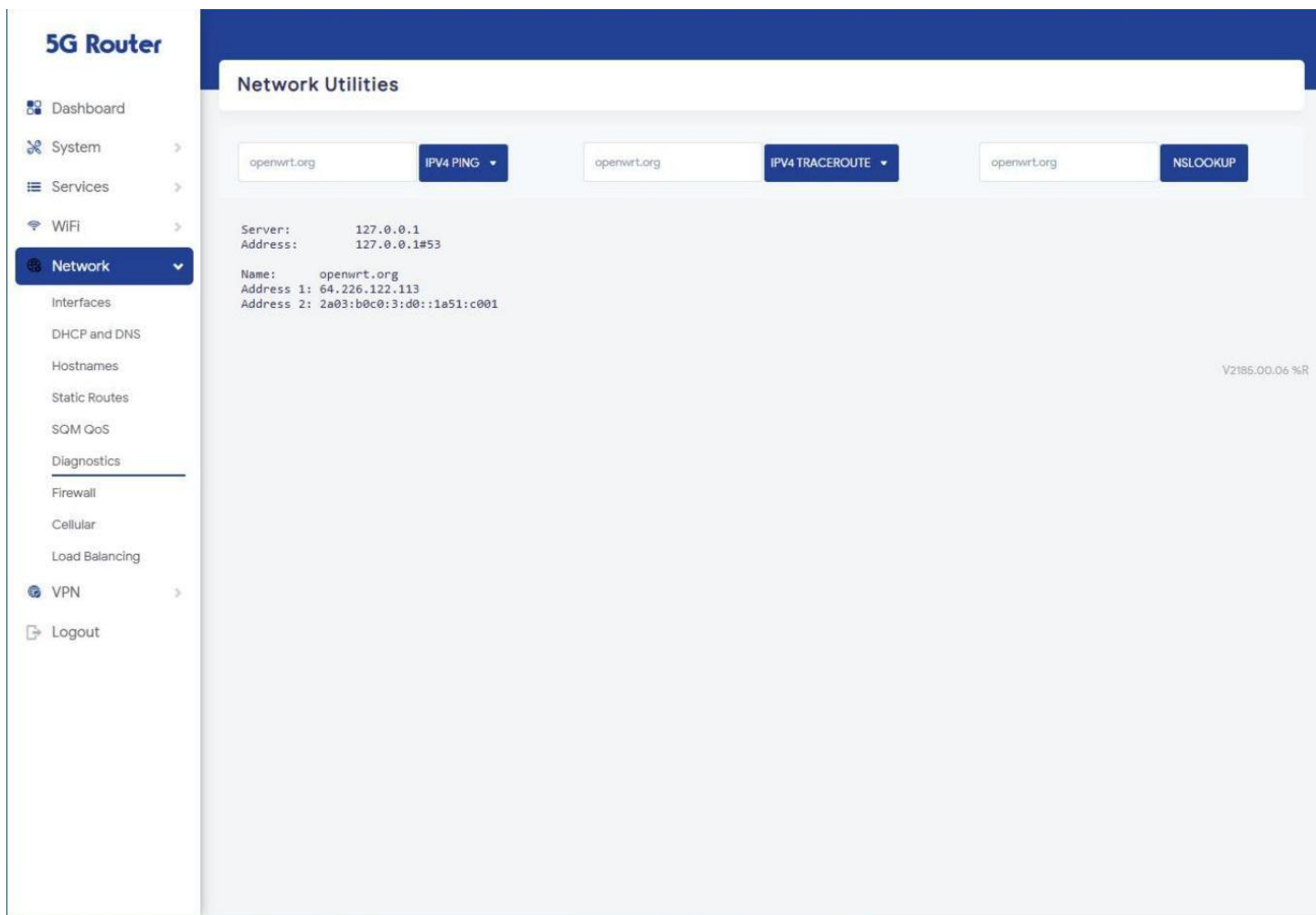
15 *

16 *

17 *

18 64.226.122.113 273.903 ms

V2185.00.06 %R



Firewall

Status

IPv4 Firewall
Display IPv4 firewall rules

5G Router

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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

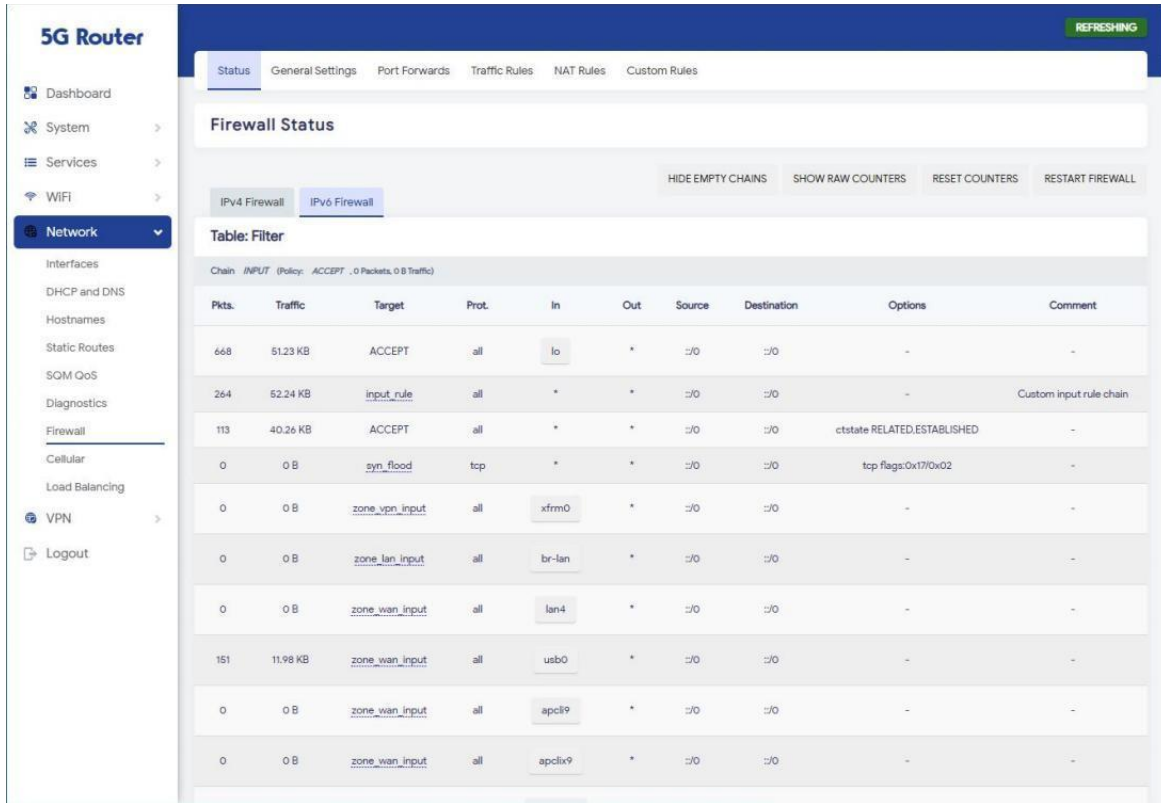
RESTART FIREWALL

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

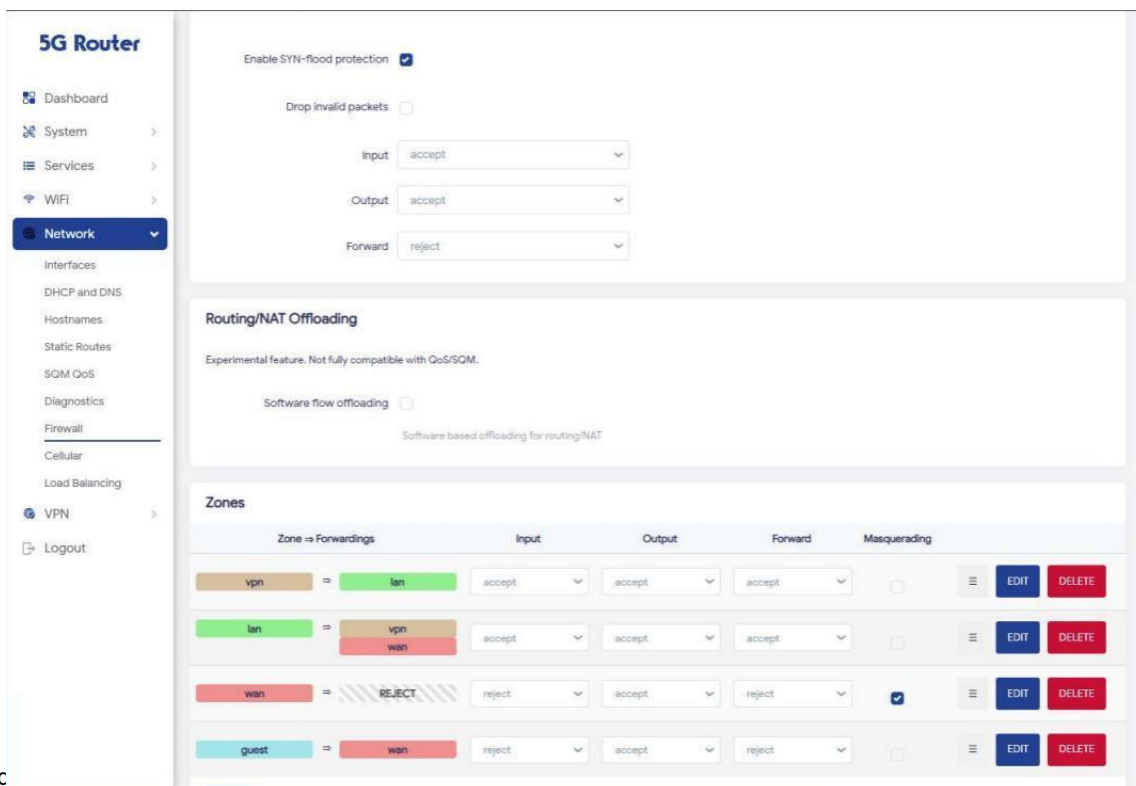
Table: Filter

Chain INPUT (Policy: ACCEPT, 0 Packets, 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_wan_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 ☐

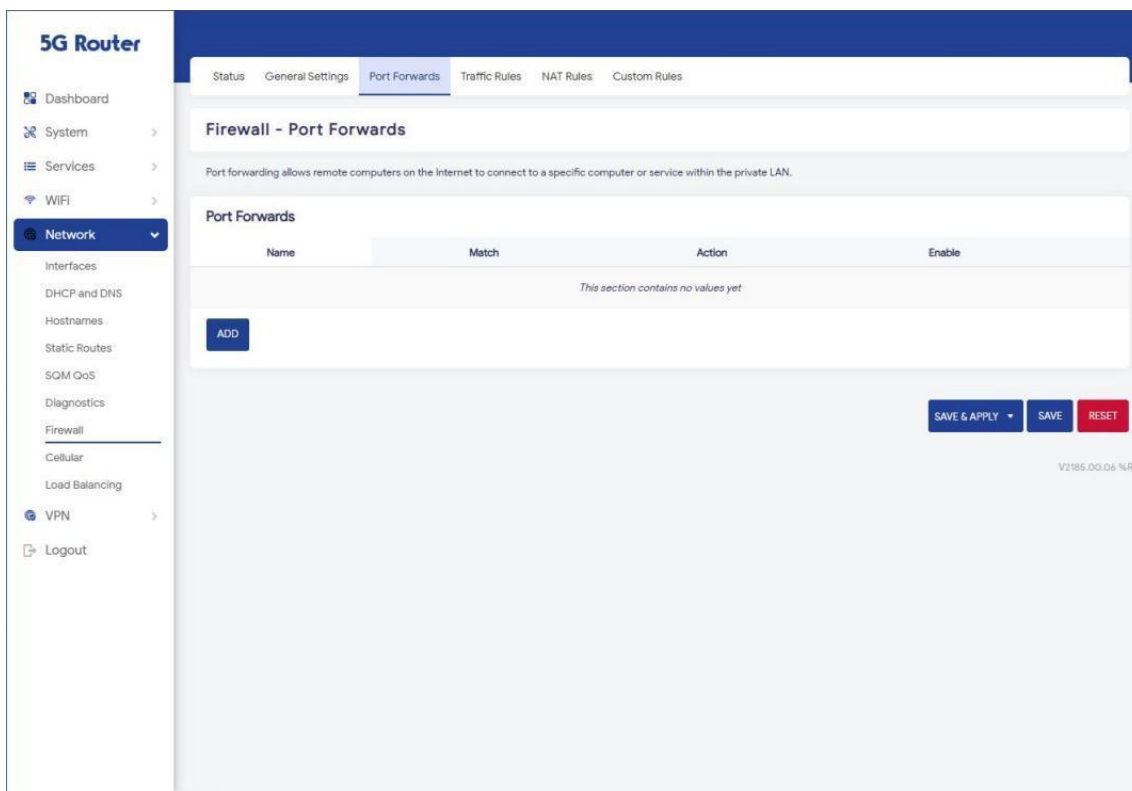
Software based offloading for routing/NAT

Zones

Zone => Forwards	Input	Output	Forward	Masquerading
vpn => lan	accept	accept	accept	☐
lan => vpn wan	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**
 - 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

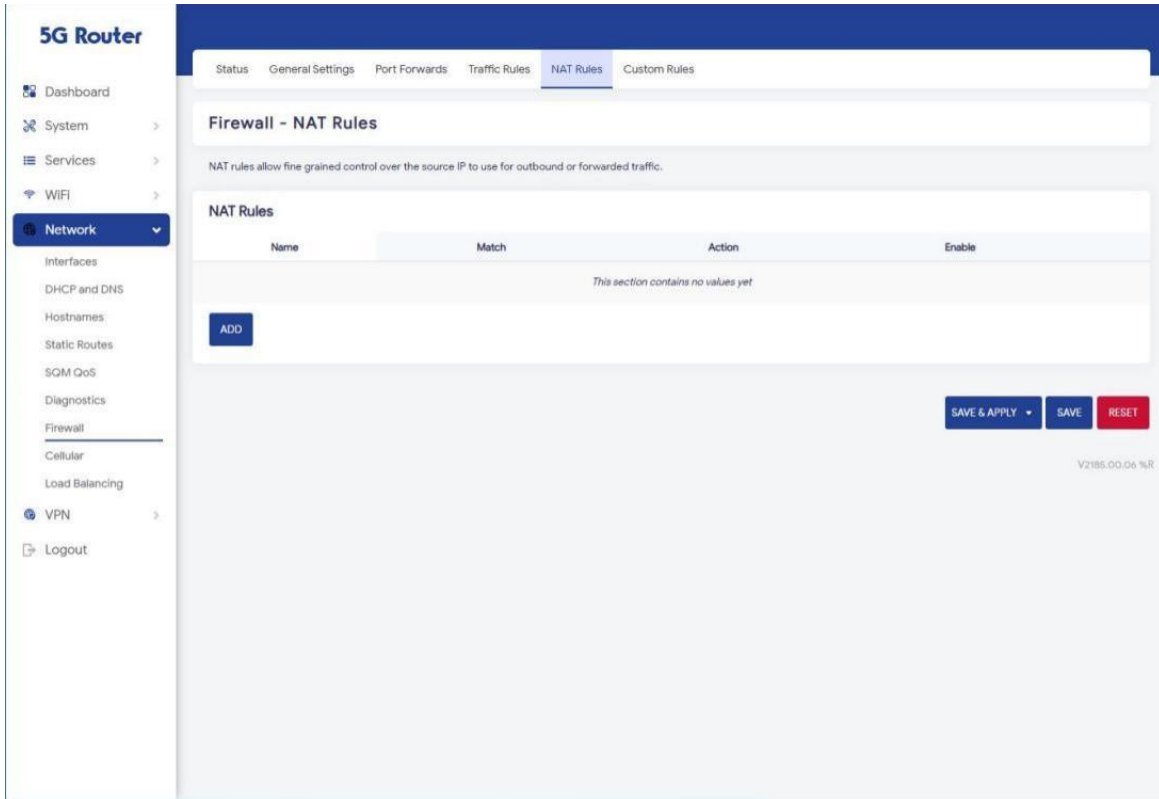
Firewall - Traffic Rules

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

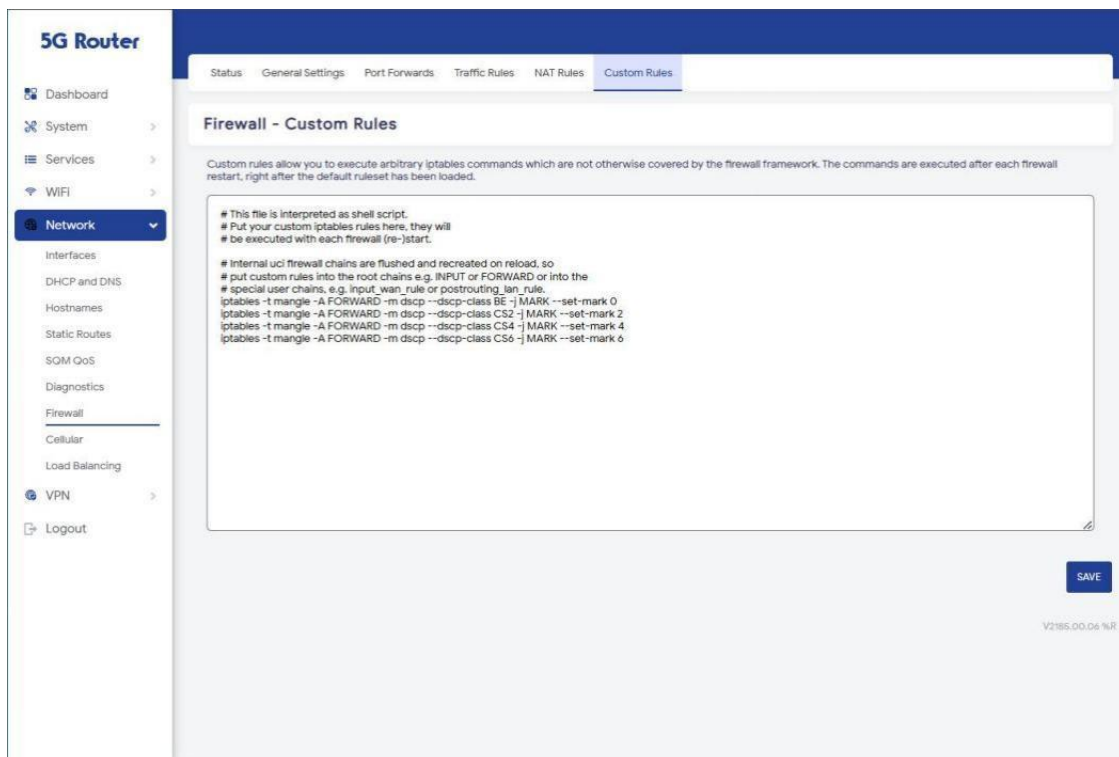
NAT Rules

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

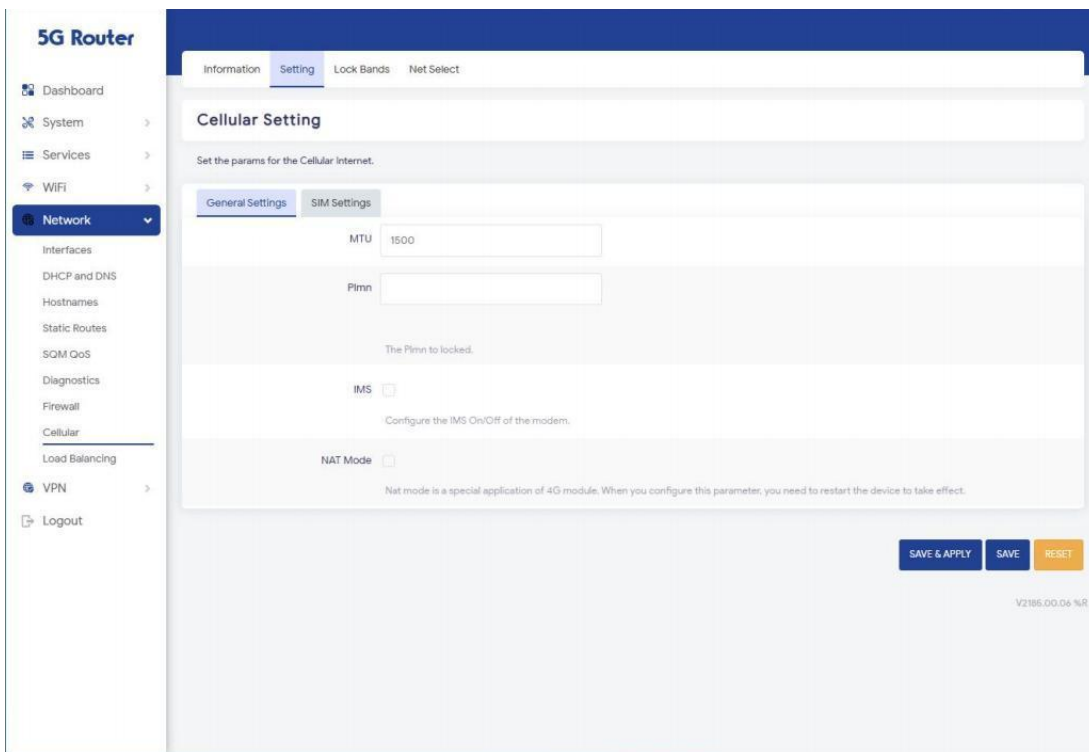
For sim and Modem's information.

5G Router		REFRESHING	
Information		Setting	
Cellular Information		Lock Bands	
Cellular's information for sim and Modem's information.		Net Select	
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	-

Setting

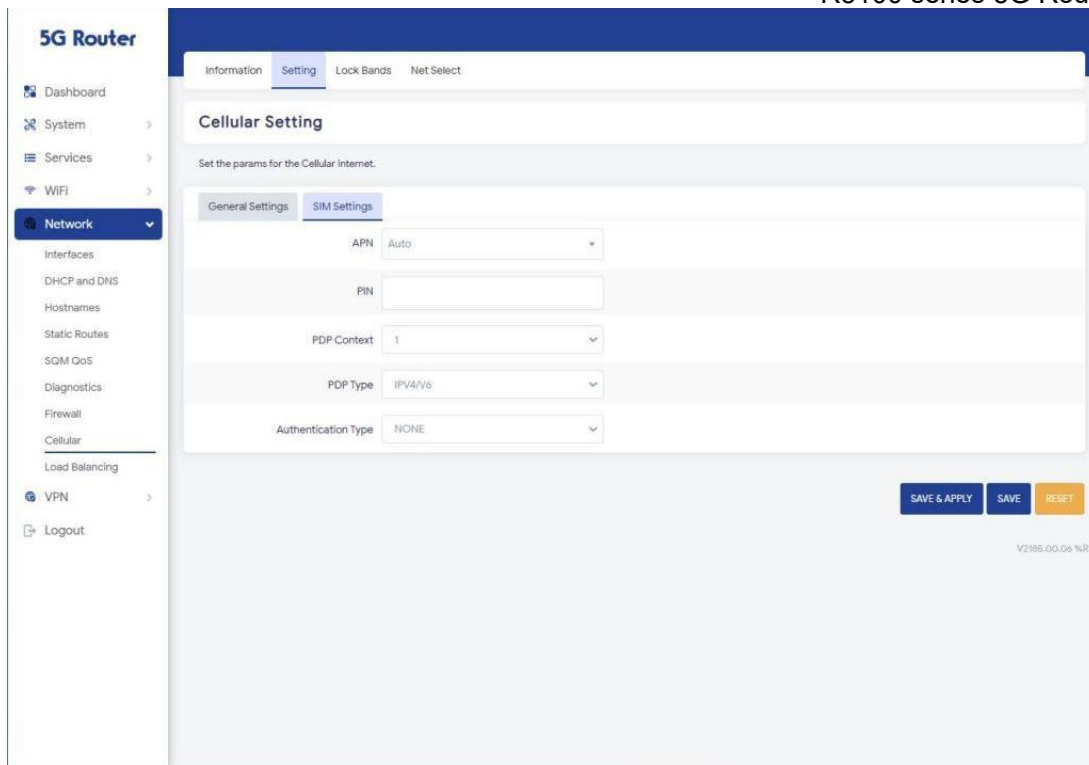
General Settings

Configure the general settings for the cellular.



SIM Settings

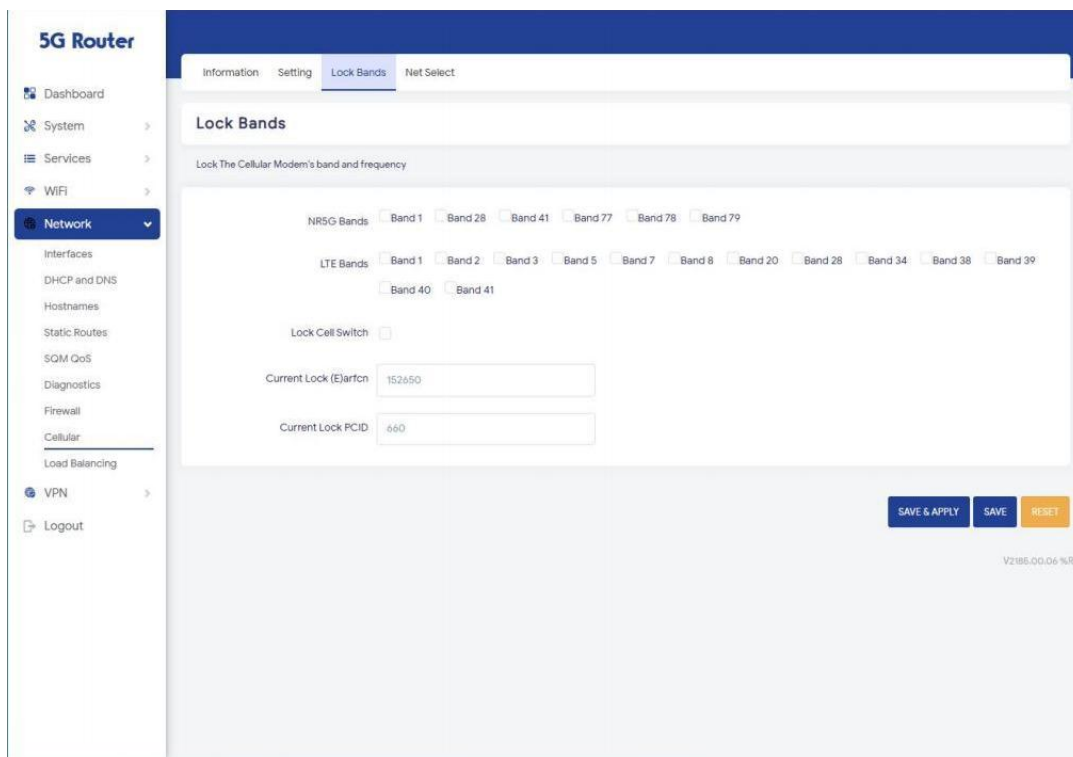
Configure the general settings for the SIM.



SIM2 settings are same.

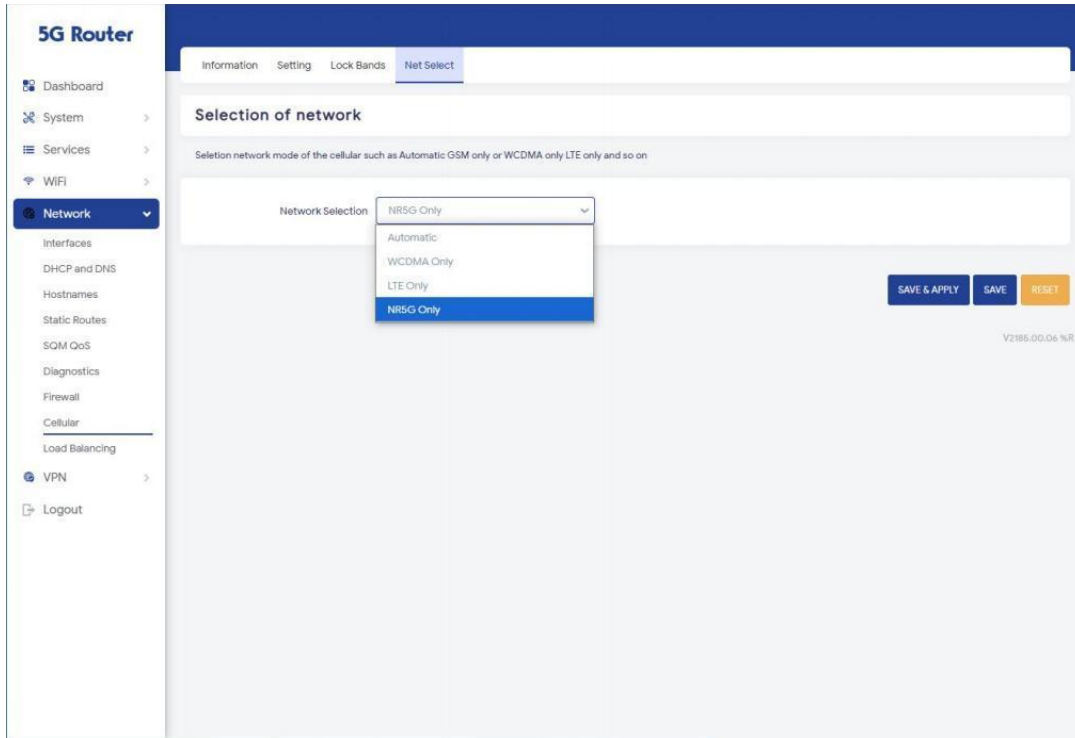
Lock Bands

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



Net Select

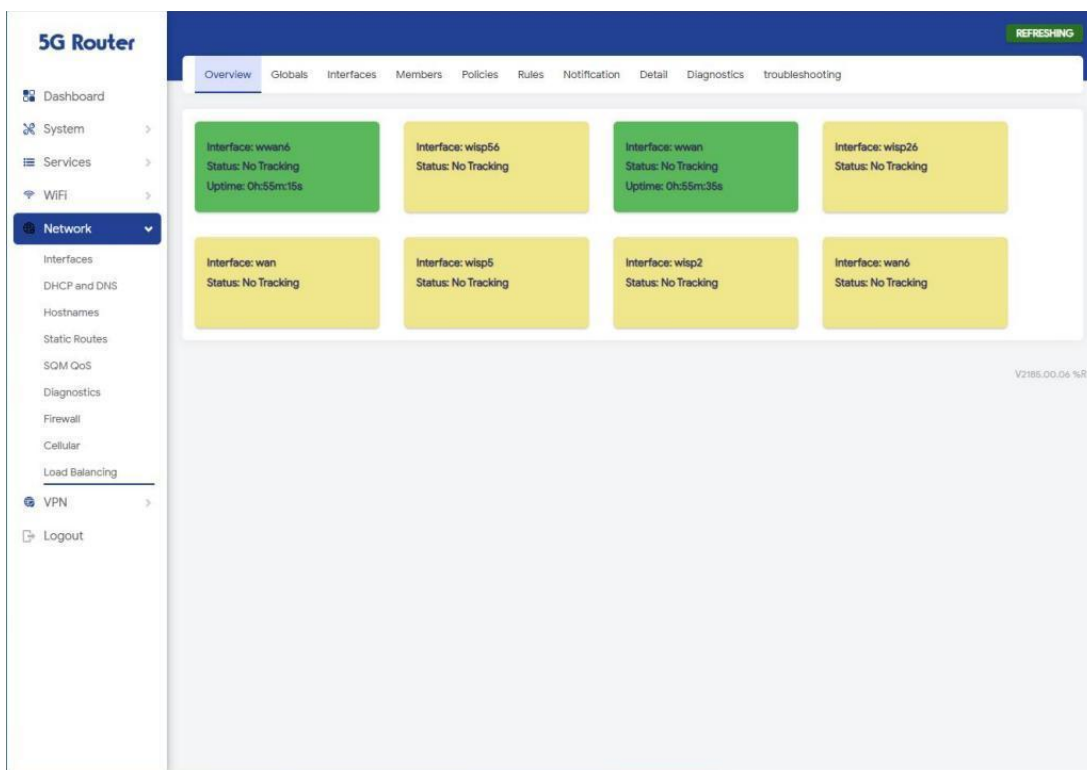
Select network mode of the cellular such as Automatic or WCDMA only or LTE only and NR5G only.



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 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
wisp5	No	ping	2	10s	5	2	3	EDIT	DELETE
wisp56	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

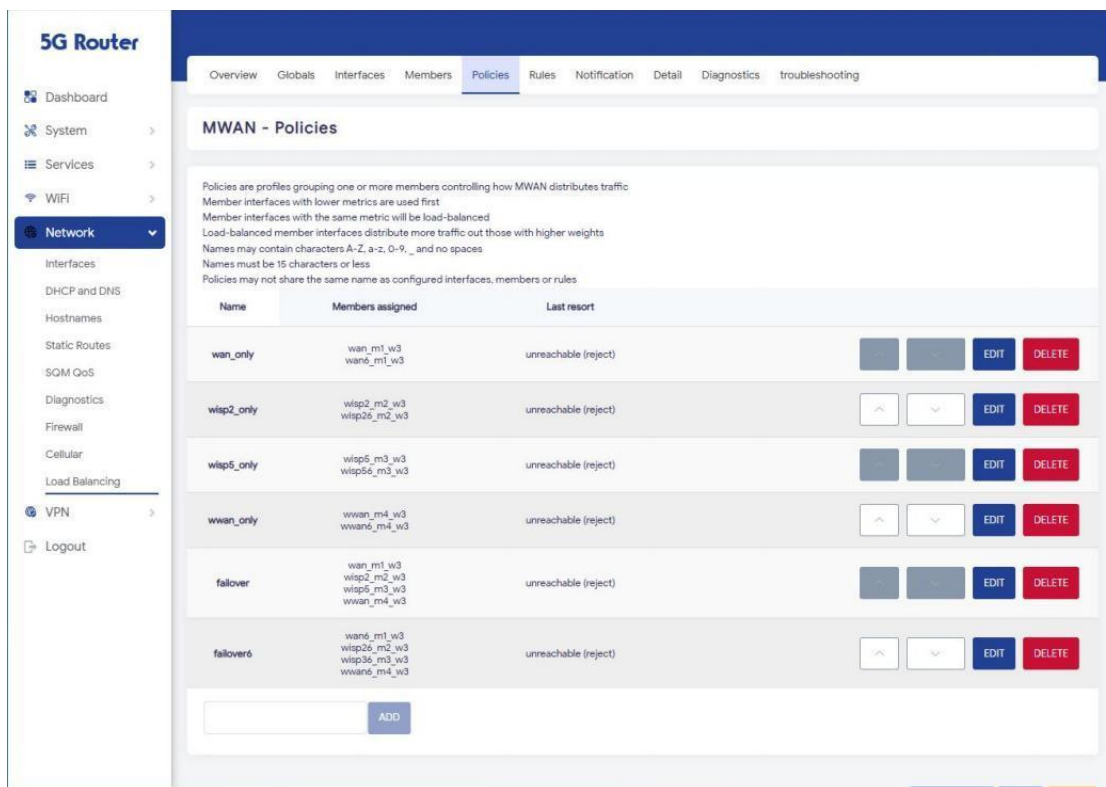
MWAN - Members

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
wisp5_m3_w3	wisp5	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
wisp56_m3_w3	wisp56	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		
wisp5_only	wisp5_m3_w3 wisp56_m3_w3	unreachable (reject)				
wwan_only	wwan_m4_w3 wwan6_m4_w3	unreachable (reject)	^	v		
fallover	wan_m1_w3 wisp2_m2_w3 wisp5_m3_w3 wwan_m4_w3	unreachable (reject)				
fallover6	wan6_m1_w3 wisp26_m2_w3 wisp36_m3_w3 wwan6_m4_w3	unreachable (reject)	^	v		

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
 - SQM QoS
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 - Load Balancing
 - VPN
 - Logout

Overview
Globals
Interfaces
Members
Policies
Rules
Notification
Detail
Diagnostics
troubleshooting

MWAN - Rules

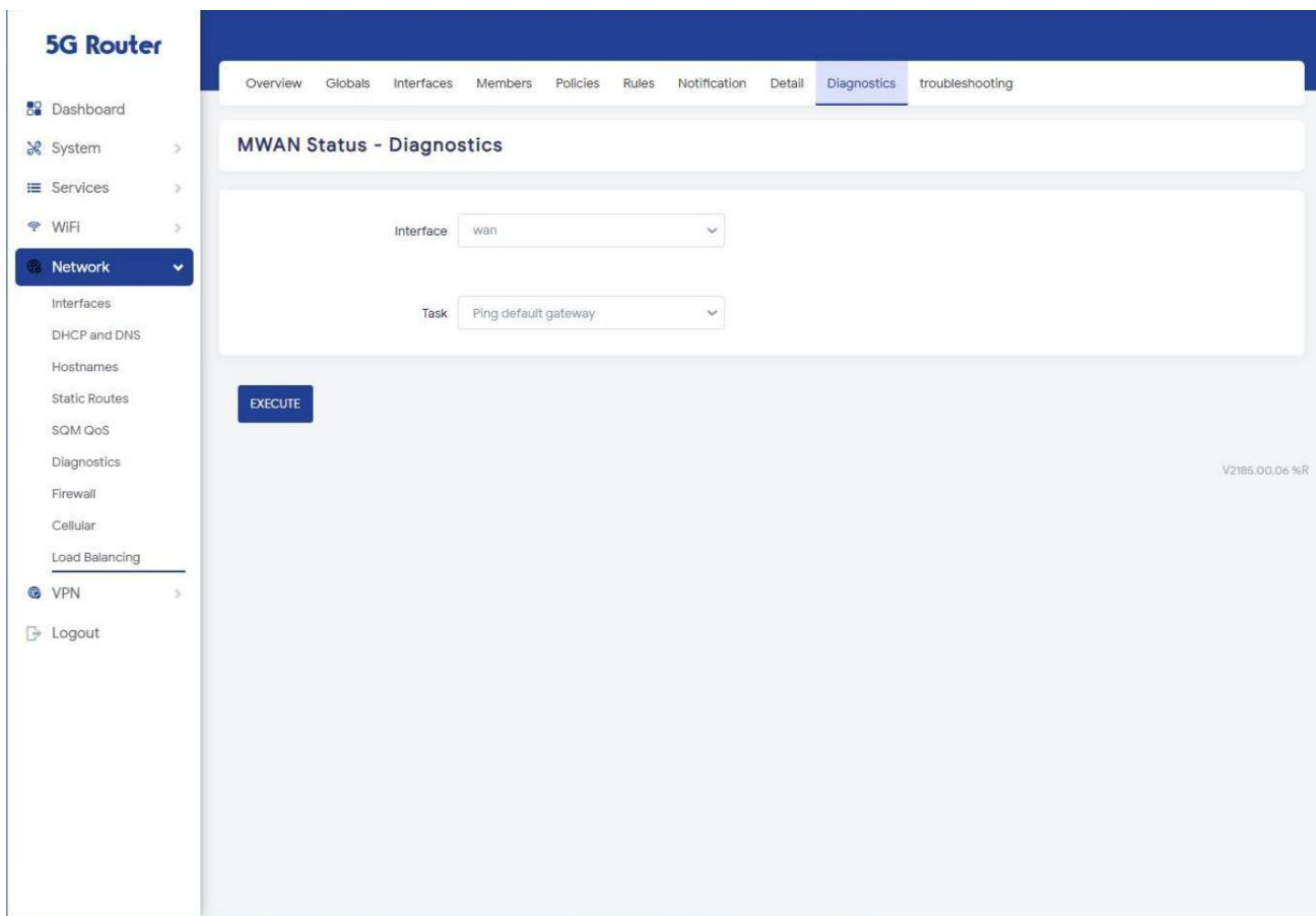
Rules specify which traffic will use a particular MWAN policy
Rules are based on IP address, port or protocol
Rules are matched from top to bottom
Rules below a matching rule are ignored
Traffic not matching any rule is routed using the main routing table
Traffic destined for known (other than default) 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

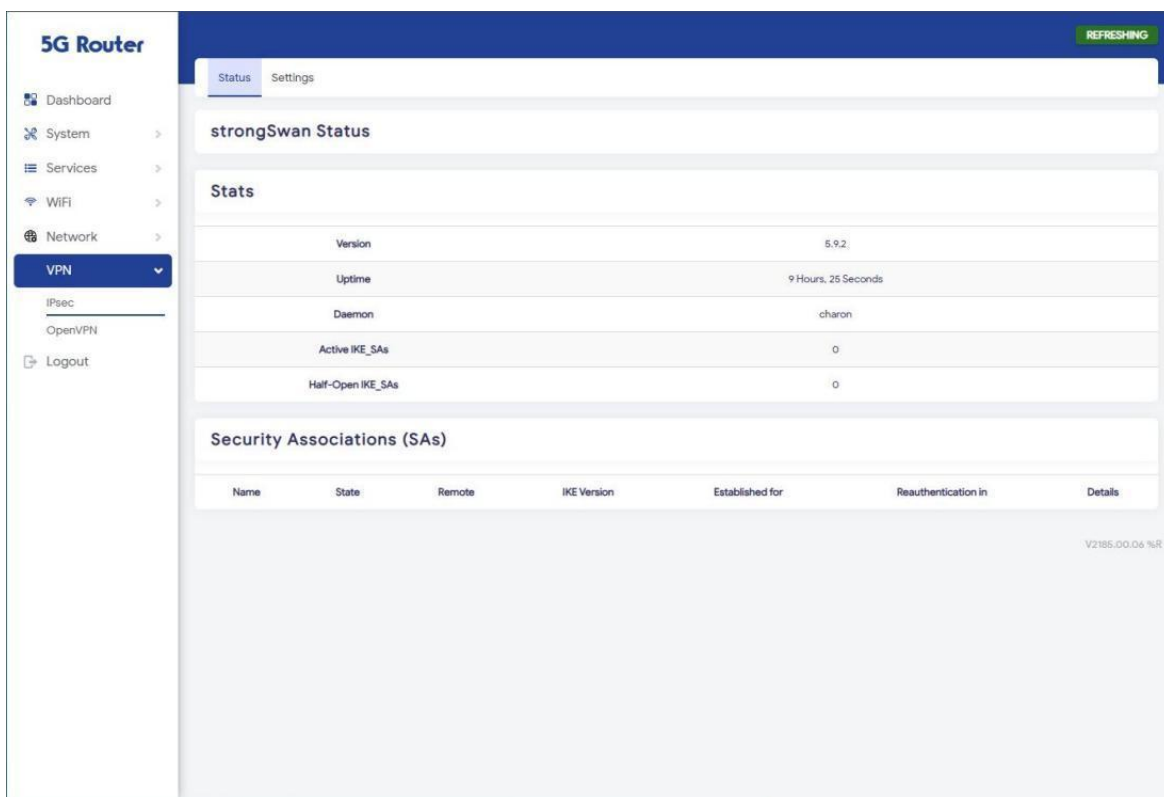
Determine the network status of the load balancing interface.



VPN Functions

IPSec

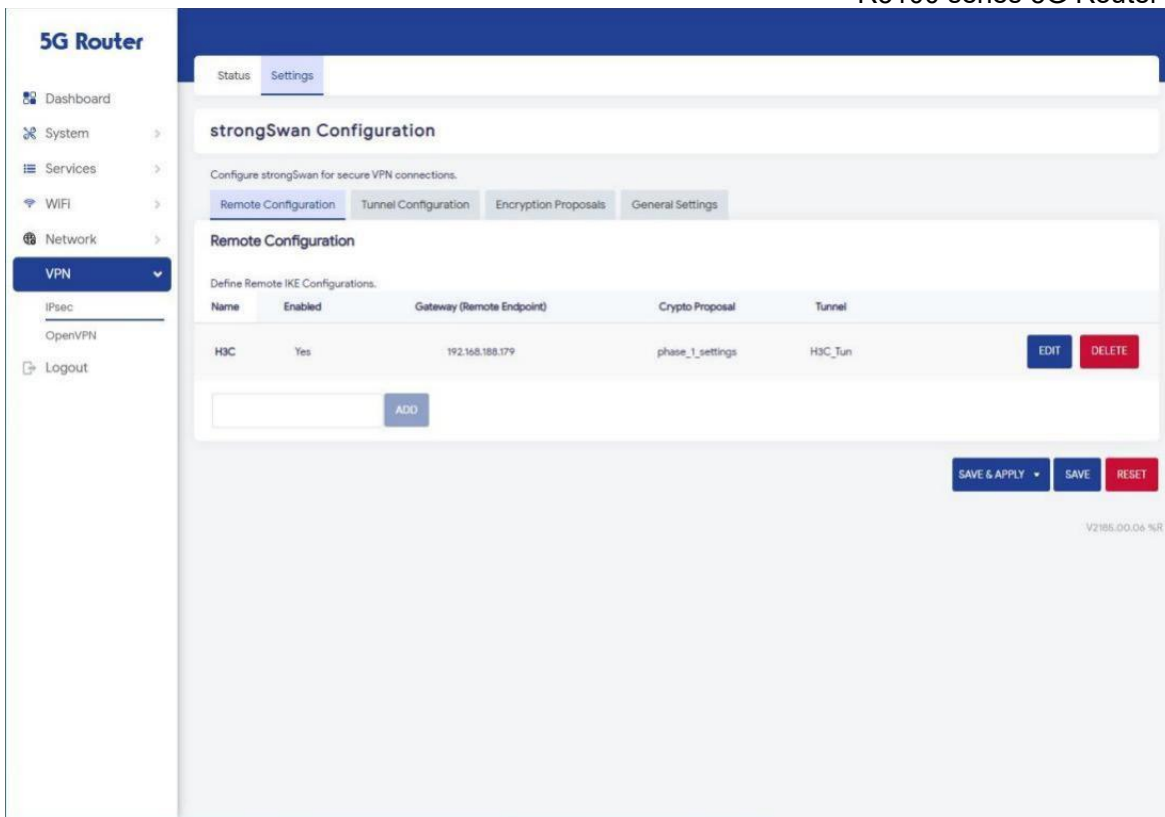
Check the status of IPSec



Settings

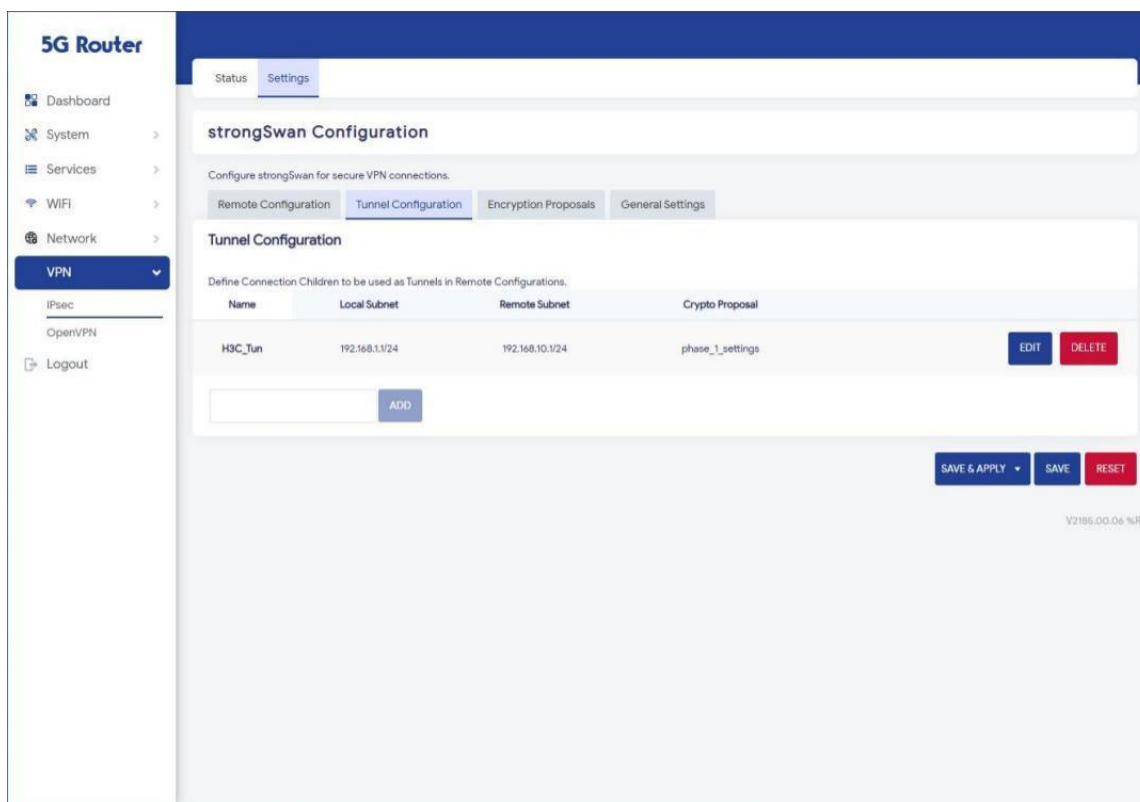
Remote Configuration

Define Remote IKE Configurations.



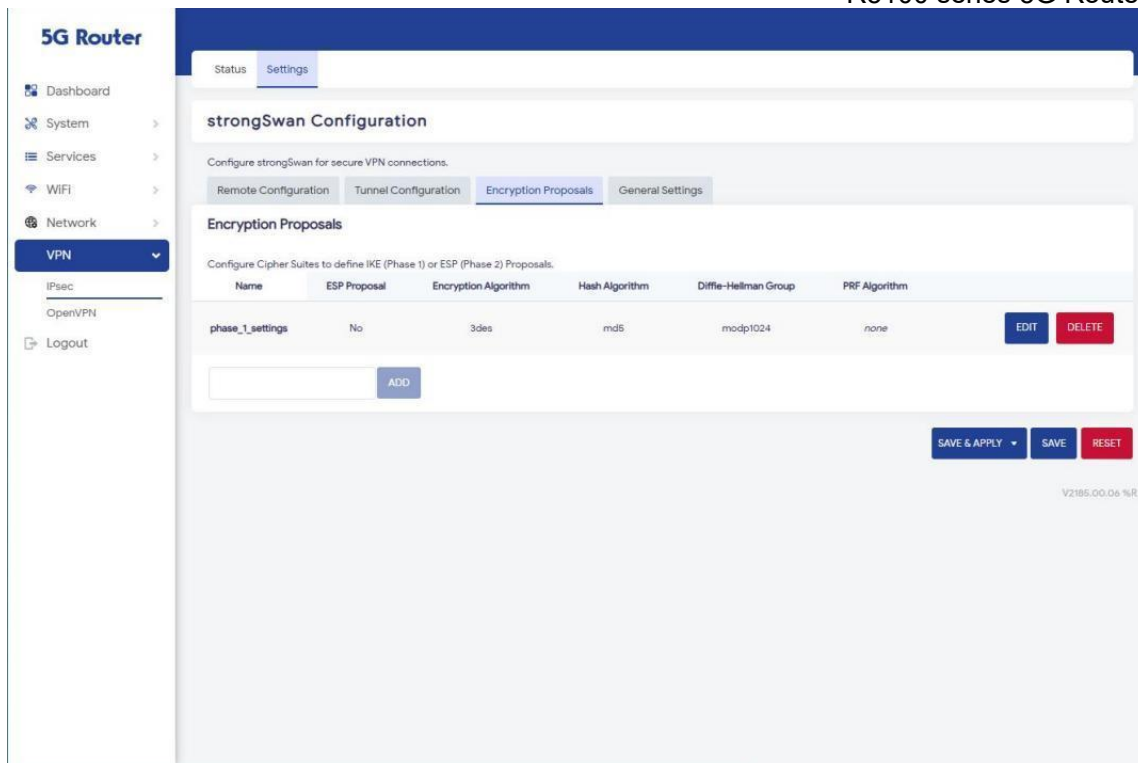
Tunnel Configuration

Define Connection Children to be used as Tunnels in Remote Configurations



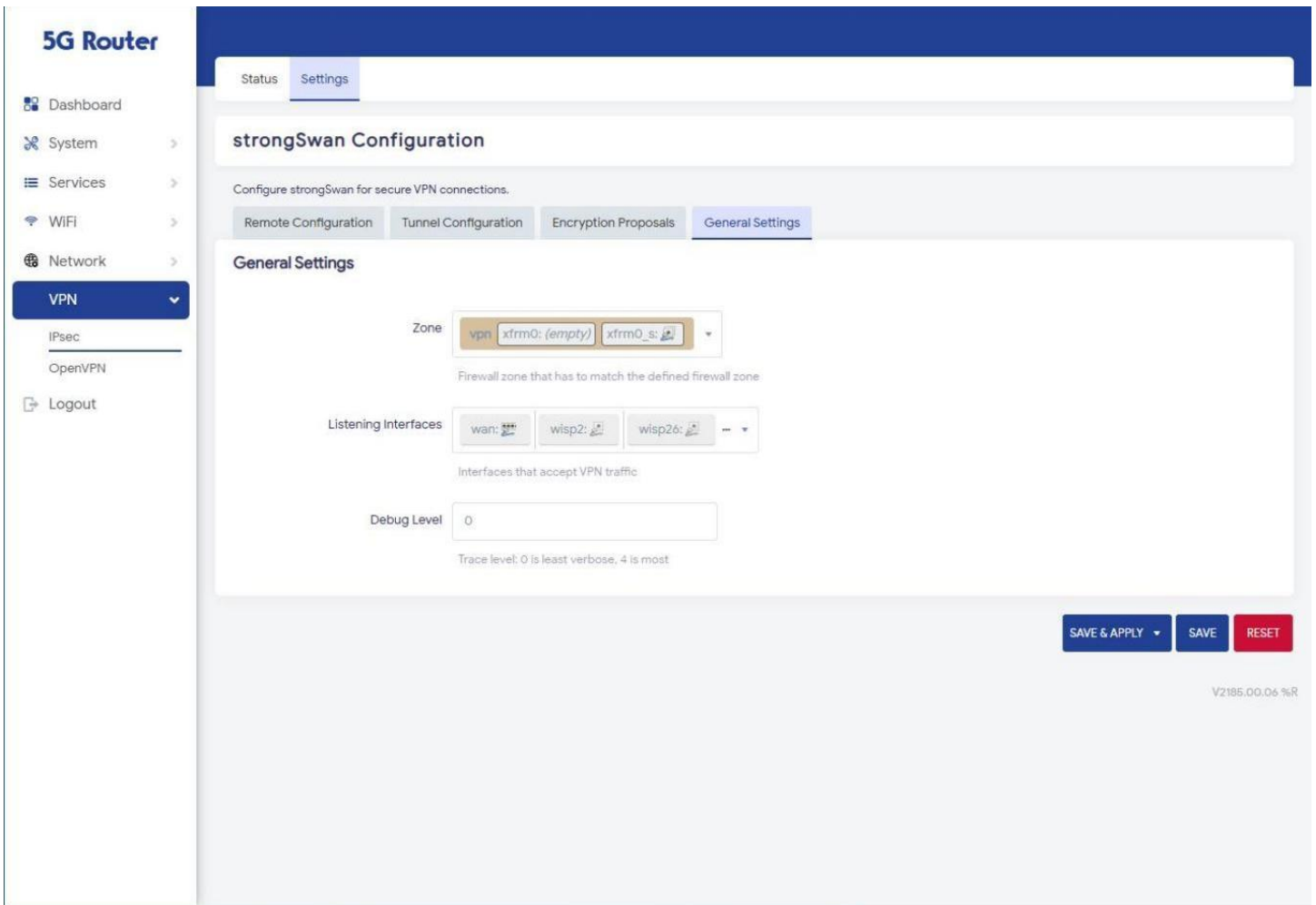
Encryption Proposals

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

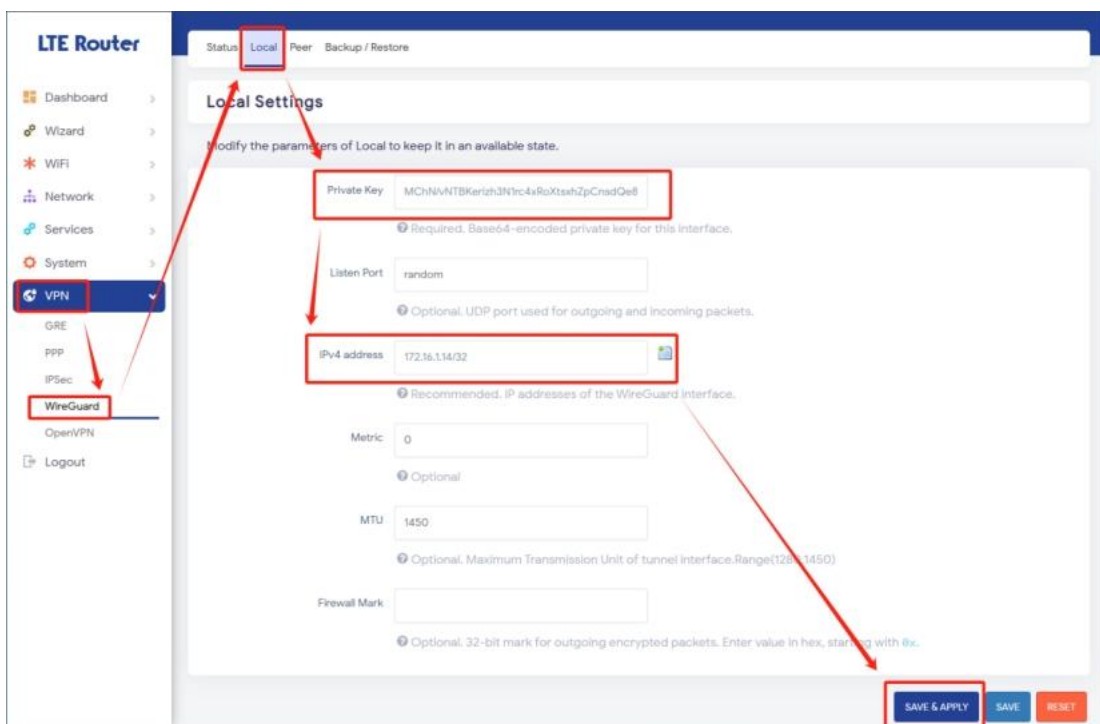
No file chosen

V2185.00.06 %R

WireGuard

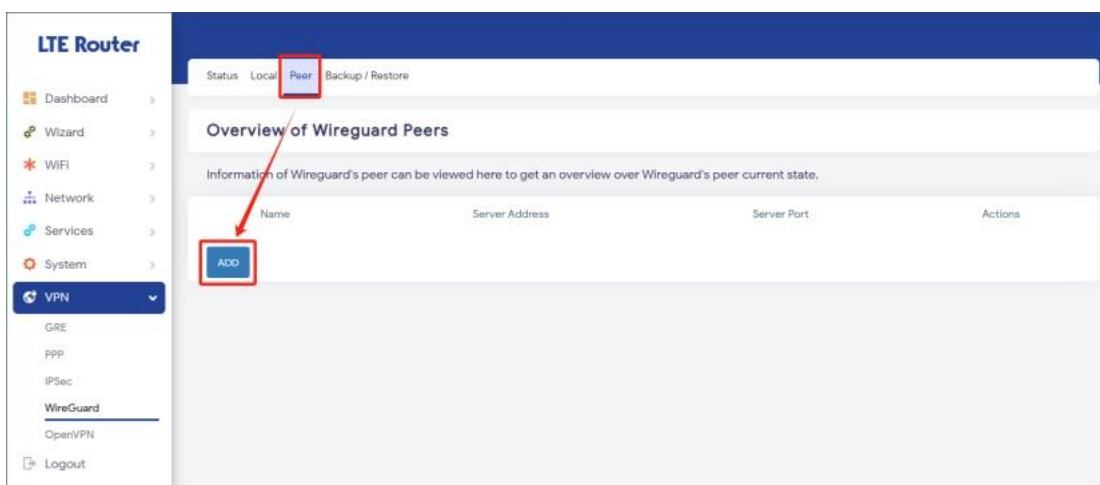
Local

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+RaiUvt
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

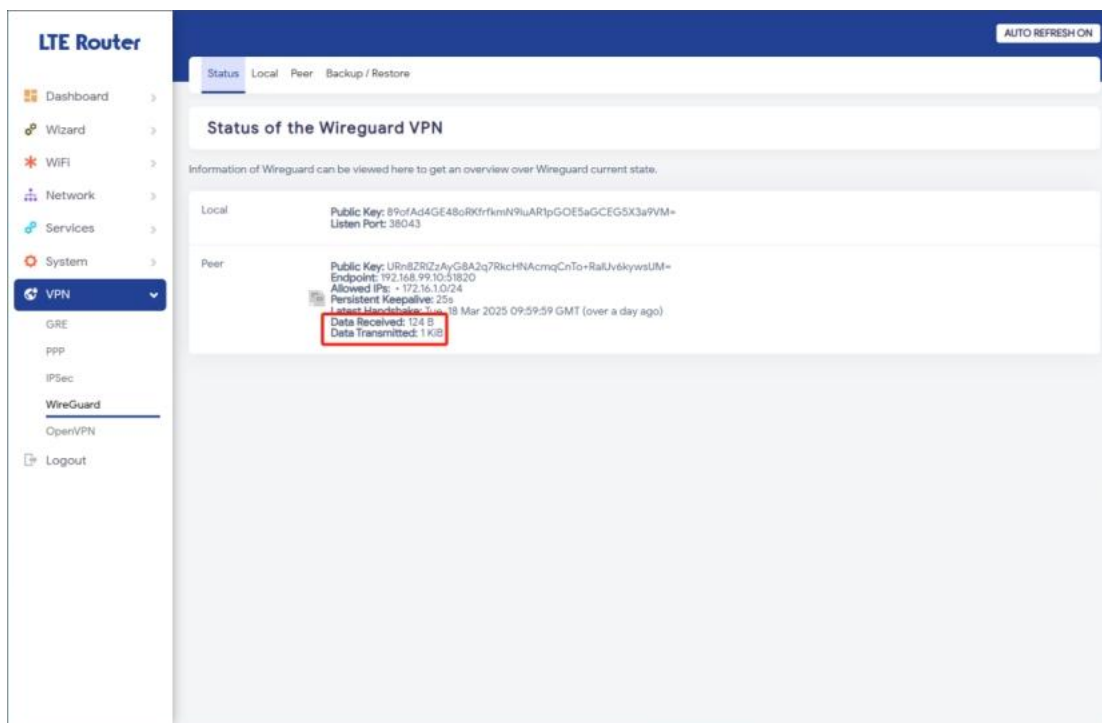
Overview of Wireguard Peers

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

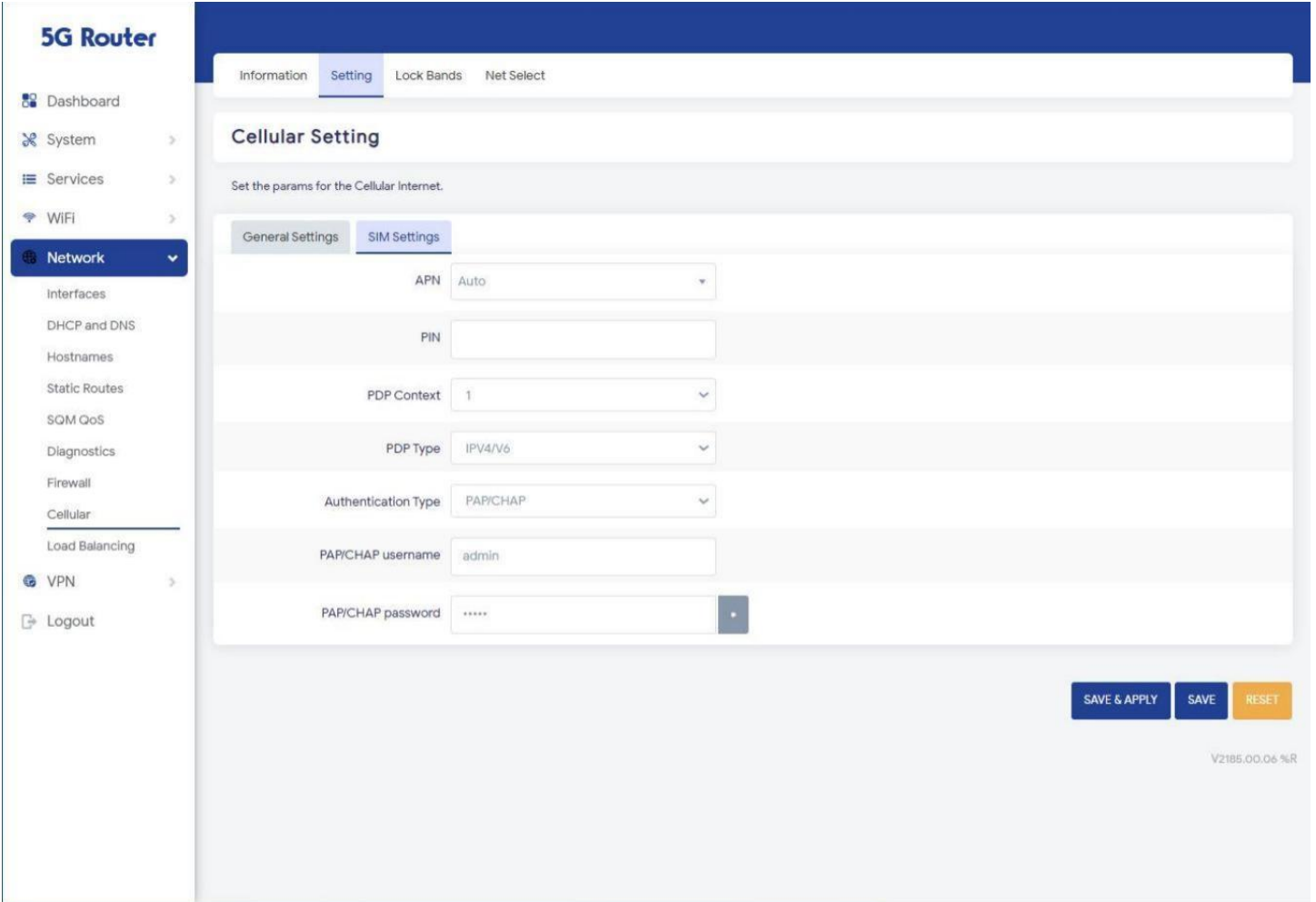


FAQ

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".

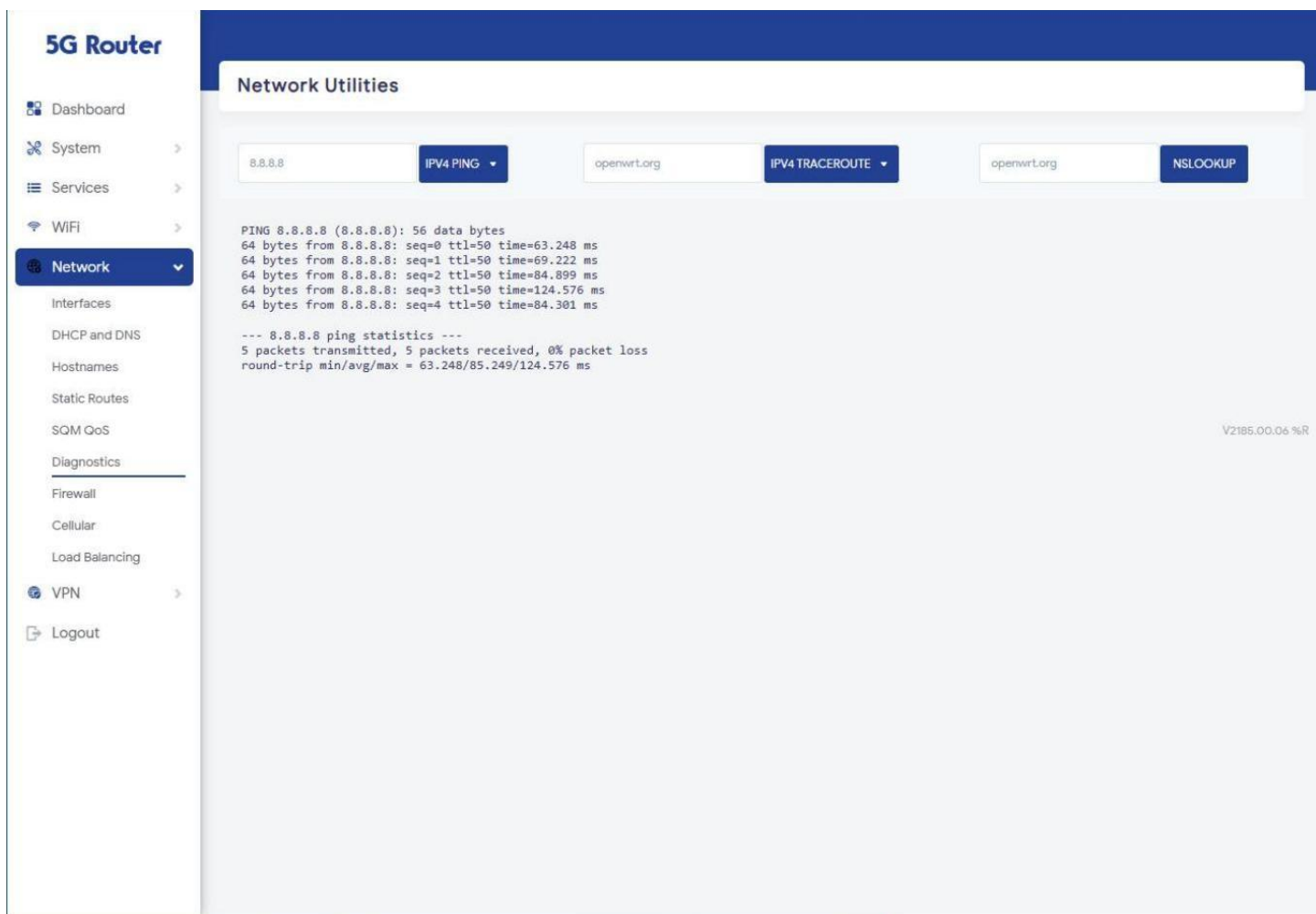


The screenshot displays the '5G Router' web interface. On the left is a sidebar menu with options: Dashboard, System, Services, WIFI, Network (selected), Interfaces, DHCP and DNS, Hostnames, Static Routes, SQM QoS, Diagnostics, Firewall, Cellular, Load Balancing, VPN, and Logout. The main content area is titled 'Cellular Setting' and includes tabs for Information, Setting (active), Lock Bands, and Net Select. Below the tabs, it says 'Set the params for the Cellular Internet.' There are two sub-tabs: General Settings and SIM Settings (active). The SIM Settings form contains the following fields:

- APN: A dropdown menu currently set to 'Auto'.
- PIN: A text input field.
- PDP Context: A dropdown menu currently set to '1'.
- PDP Type: A dropdown menu currently set to 'IPv4/V6'.
- Authentication Type: A dropdown menu currently set to 'PAP/CHAP'.
- PAP/CHAP username: A text input field containing 'admin'.
- PAP/CHAP password: A password input field with masked characters '*****' and a toggle icon.

At the bottom right of the form are three buttons: 'SAVE & APPLY' (blue), 'SAVE' (blue), and 'RESET' (orange). Below these buttons, the text 'V2185.00.06 %R' is visible.

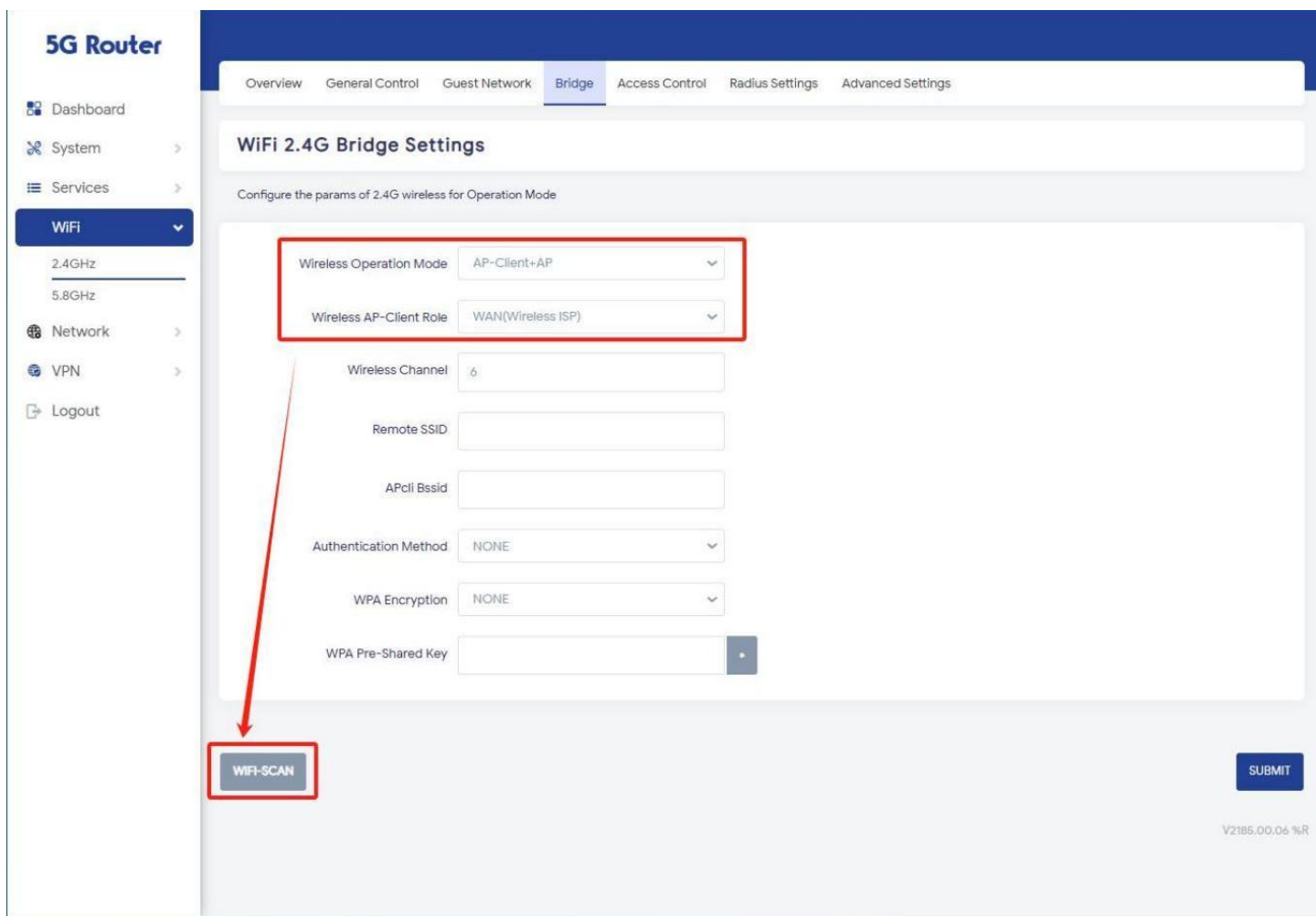
2. Check the network by ping to a specify ip address via the network diagnosis page to determine whether the connection is normal and working.



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/TKIPAES	100	Choose This
3AC38	1	AA:80:38:3A:C3:88	WPAPSKWPA2PSK/AES	100	Choose This
LTE-410DA8	1	A8:80:38:41:0D:A8	WPAPSKWPA2PSK/TKIPAES	18	Choose This
Movingcomm-2.4GHz	1	A8:80:38:31:0F:D6	WPAPSKWPA2PSK/TKIPAES	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	WPAPSKWPA2PSK/TKIPAES	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
铁壳4G 唐	1	A8:80:38:3D:4E:88	WPAPSKWPA2PSK/TKIPAES	23	Choose This
TLXN	1	B8:F8:83:86:D2:0F	WPAPSKWPA2PSK/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	WPAPSKWPA2PSK/TKIPAES	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	WPAPSKWPA2PSK/AES	0	Choose This
ChinaNet-EIXf	7	F0:92:B4:9D:2D:39	WPAPSKWPA2PSK/TKIPAES	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

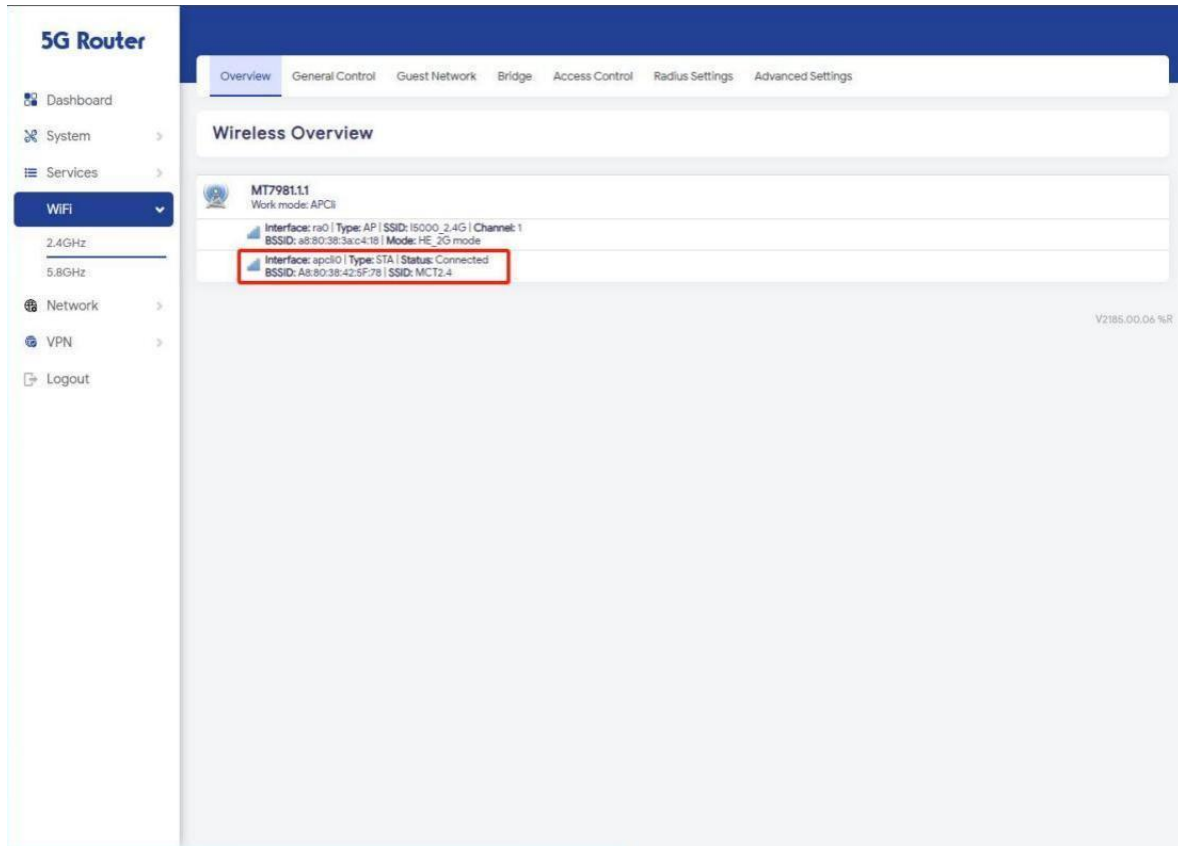
Wireless Operation ModeAP-Client+AP
Wireless AP-Client RoleWAN(Wireless ISP)
Wireless Channel1
Remote SSIDMCT2.4
APcll BssidA8:80:38:42:5F:78
Authentication MethodWPA2-PSK
WPA EncryptionAES
WPA Pre-Shared Key
ApCll MFPC
ApCll MFPR
ApCll MFPSHA256

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.





The screenshot displays the 5G Router dashboard with a sidebar menu on the left containing: Dashboard, System, Services, WiFi, Network, VPN, and Logout. The main content area is divided into four panels:

- Internet:**
 - IPv4 Internet:** Connected: YES (highlighted with a red box). 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:fecc: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

5G Router

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

Firewall - Port Forwards - Unnamed forward

General Settings

Advanced Settings

Name: test
Protocol: TCP UDP
Source zone:

wan

wan

wan

wan

wwan

wwan

wisp2

wisp5

wisp26

wisp56

External port: 10000
Match incoming traffic directed at the given destination port or port range on this host
Destination zone:

lan

lan

Internal IP address: 192.168.99.1 (5G-Router.lan)
Redirect matched incoming traffic to the specified internal host
Internal port: 10000
Redirect matched incoming traffic to the given port on the internal host

DISMISS SAVE

UNSAVED CHANGES: 8

EDIT DELETE

SAVE & APPLY SAVE RESET

V2185.00.04 %R

5G Router

Dashboard
System
Services
WIFI
Network
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 - Port Forwards

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

Port Forwards

Name	Match	Action	Enable	
test	Incoming IPv4 From wan To this device . port 10000	Forward to lan IP 192.168.99.1 port 10000	☒	EDIT DELETE

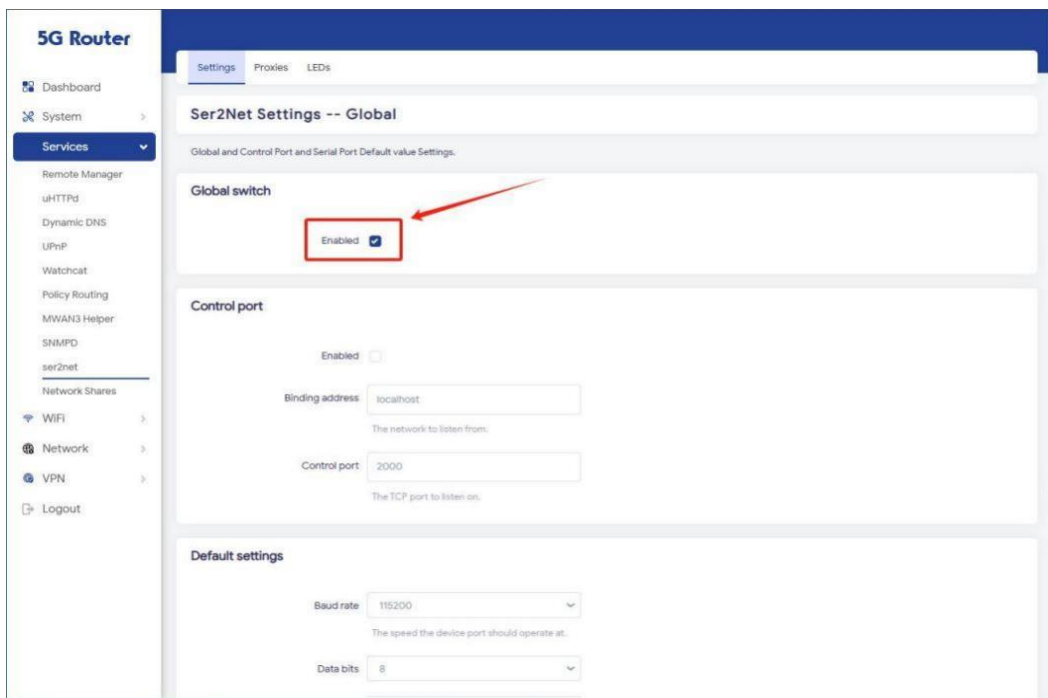
ADD

SAVE & APPLY SAVE RESET

V2185.00.04 %R

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 ☐

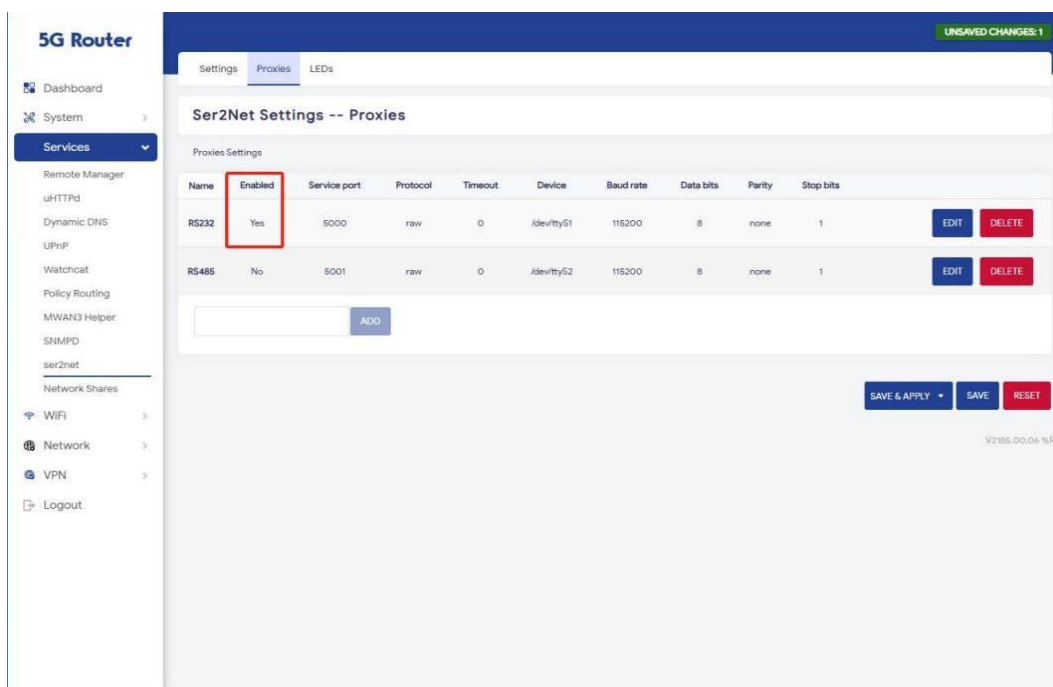
Binding address: localhost
The network to listen from.

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

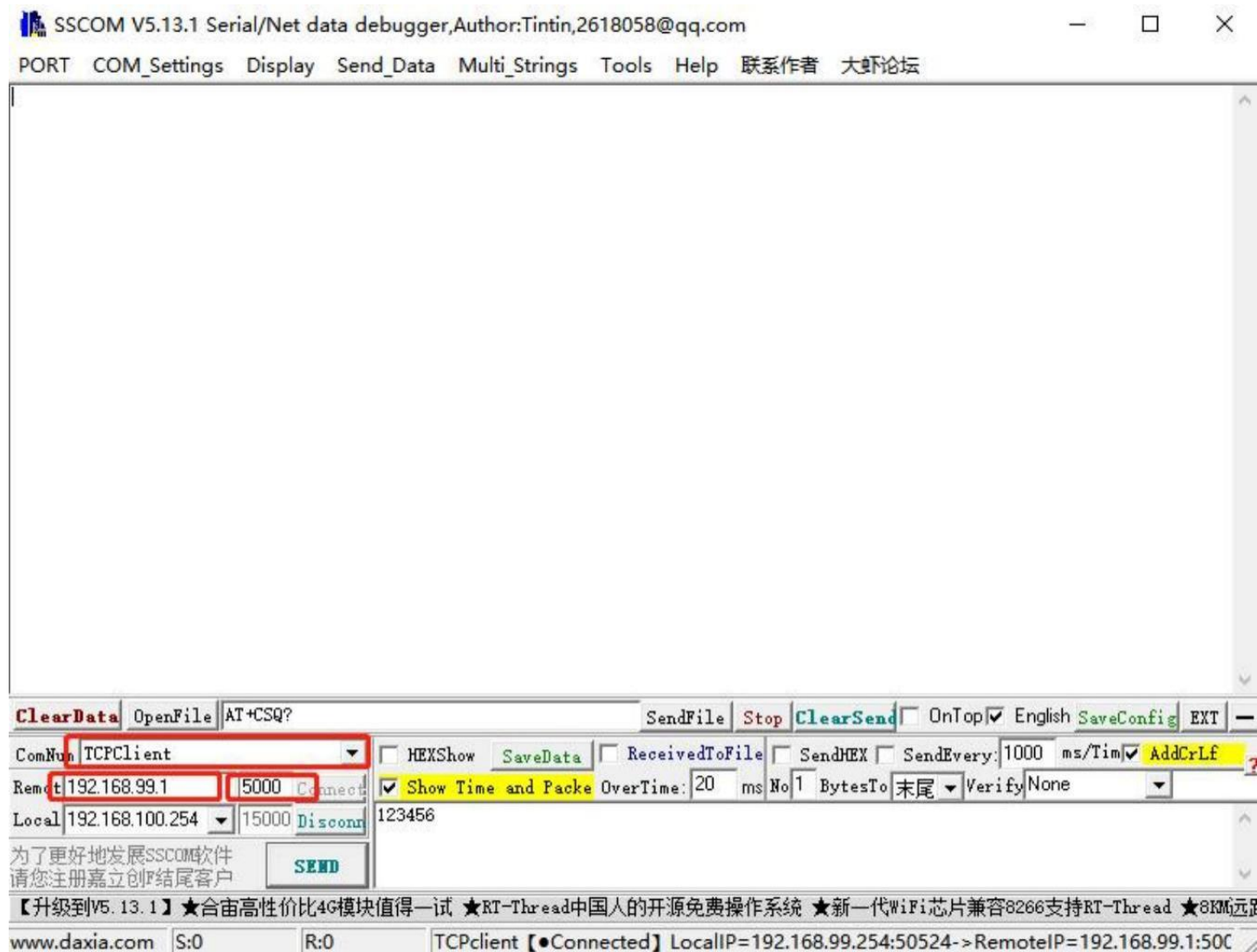
Name	Enabled	Service port	Protocol	Timeout	Device	Baud rate	Data bits	Parity	Stop bits	
RS232	Yes	5000	raw	0	/dev/ttyS1	115200	8	none	1	EDIT DELETE
RS485	No	5001	raw	0	/dev/ttyS2	115200	8	none	1	EDIT DELETE

ADD

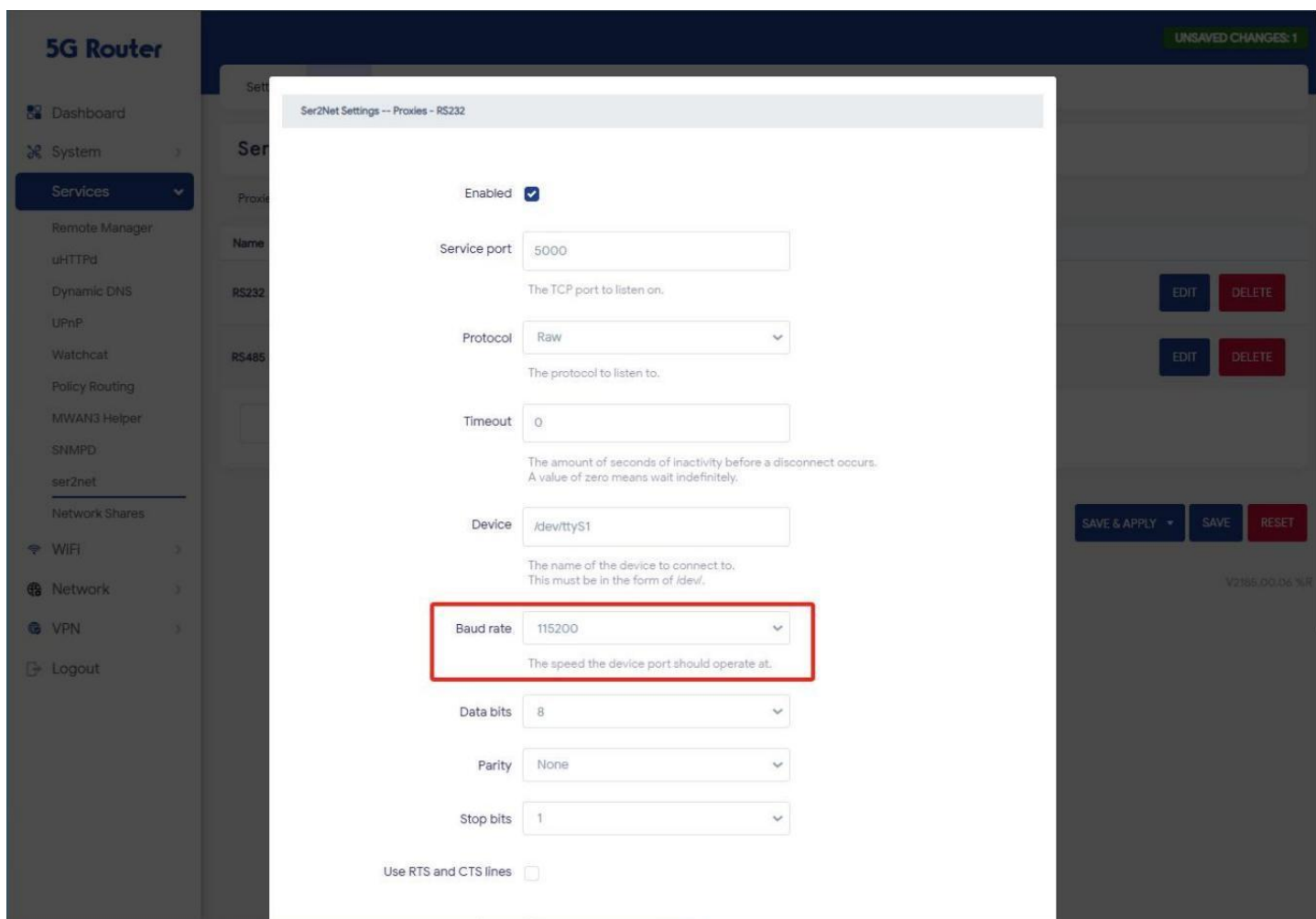
SAVE & APPLY SAVE RESET

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.

