



User Manual

---Apply to WL-G520 Series 4G+/4G Router

V3.2

<http://www.wlink-tech.com>

Feb, 2022



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Version History

Updates between document versions are cumulative. The latest document version contains all updates made to previous version.

Data	Document Version	Firmware Version	Description
2022-1-2	V3.2	G5.0.1.5-211103-1 70736.trx	Added two OpenVPN tunnel, Improved UI http/https timeout.
2021-7-19	V3.1	G5.0.1.5-210719-1 55351.trx	Improved SIM tray in hardware, Added IKE2 and TR069
2020-4-2	V3.0	G5.0.1.5-200317-1 62210.trx	WL-G520 UI3.0

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1

Hardware Installation

This chapter is mainly for installation introduction, there would be some difference between the scheme and real object. But the difference won't have any influence to products performance.

1.1 Panel

Table 1-1 WL-G520 Structure

WLINK Tech.	G520 series
Front	
Rear	



NOTE

There are some difference on Antenna interface and indicator light for the device with extended Wi-Fi, GPS features.

Table 1-2 Router Interface

Port	Instruction	Remark
USIM	Plug type SIM Slot, support 1.8/3V/5V automatic detection.	
4G	LTE antenna, SMA connector, 50Ω.	
GPS	LTE MIMO antenna/GPS optional	
Wi-Fi1	Wi-Fi dual-band antenna, RP-SMA connector	
Wi-Fi2	Wi-Fi dual-band antenna, RP-SMA connector	
LAN1~LAN4	100/1000Base-TX, MDI/MDIX self-adaption.	

Port	Instruction	Remark
WAN	100/1000Base-TX, MDI/MDIX self-adaption.	Default as LAN
Reset	Reset button, (press on button at least 5 seconds)	
PWR	Power connector	7.5~32VDC
DC	V+ and V-	
RS232/485	Rx, Tx and GND	RS232 as default

1.2 LED Status

Table 1-3 Router LED indicator Status

silk-screen		Indicator	Note
NET	Color	Green	Good Signal
		Red	Poor Signal
	Status	Quick Blinking (0.5s)	Offline
		Slow Blinking (1.5s)	3G online
		Solid light	4G online
WLAN	Green	Solid light	WLAN port open, but no data sending.
	Green	Blinking quickly	Data is in transmitting
	Green	Extinguished	WLAN port isn't opened
LAN	Green	Solid light	Connection OK
	Green	Blinking	Data Sending
	Green	Extinguished	Not connection

1.3 Dimension

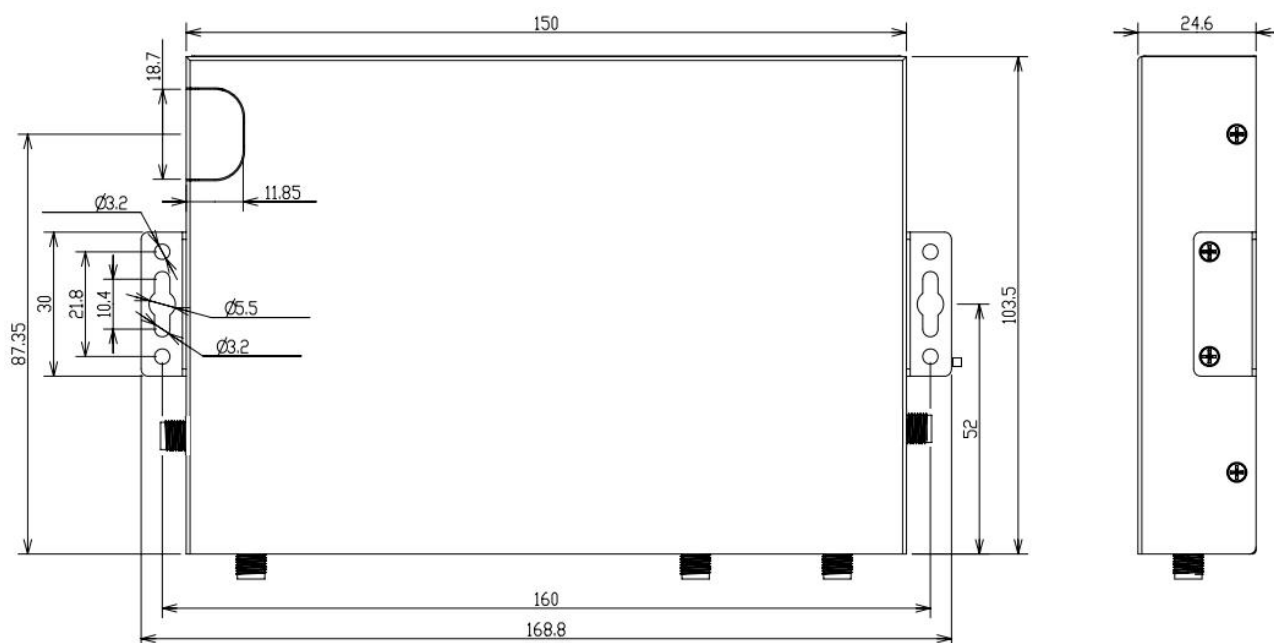
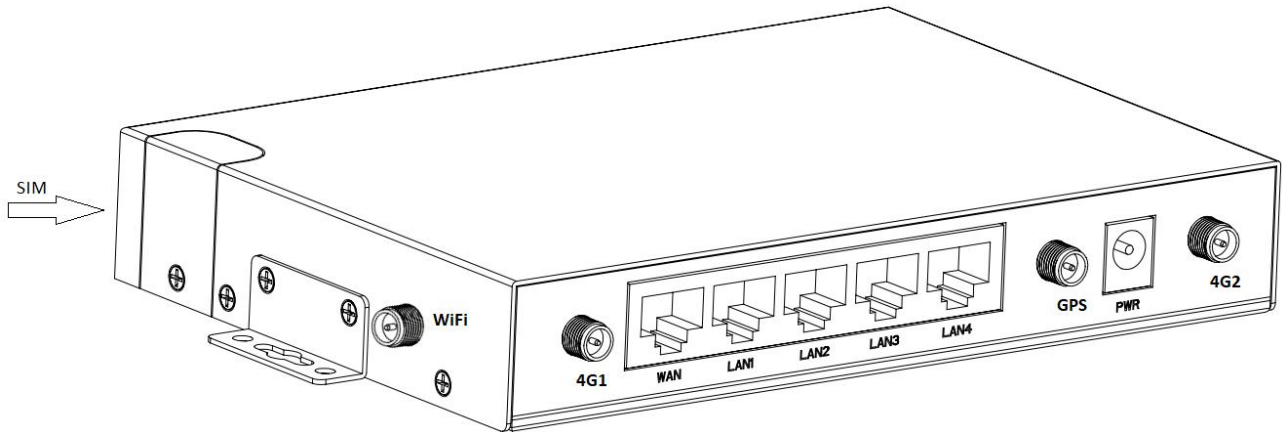


Figure 1-2 G520 Series Router Dimension

1.4 How to Install

1.4.1 SIM/UIM card install

Please insert the dual SIM cards before configure the router.



CAUTION

Before connecting, please disconnect any power resource of router

1.4.2 Ethernet Cable Connection

Connect the router with a computer by an Ethernet cable for GUI configuration, or transit by a switch.

1.4.3 4G and Wi-Fi Antenna Plug

Connect the two magnetic 4G antennas to Main and Aux interfaces, and the two paddle shape Wi-Fi antennas to Wi-Fi1 and Wi-Fi2 interfaces.



NOTE

Wi-Fi antenna supports dual-band 2.4G and 5G band.

1.4.4 Serial Port (Terminal block) Connection

The serial port supports alternative RS232/RS485 port, and RS232 port as default. It might be requested serial port for RS485 when place order. The serial port feature supports TCP/UDP client/server as optional, also supports Modbus protocol. You may check the feature in Serial App of Advanced Network UI. Below is RS232 connection sequence as reference.

Pin	Instruction	Remark
1	Vcc	3.3V output
2	GND	GND for RS232 communication
5	TXD/B	RS232 TXD, RS485 optional
4	RXD/A	RS232 RXD, 57600bps as default



The serial port will be unavailable in WL-G520 standalone GPS model.

1.4.5 Power Supply

Voltage input range: +7.5~32VDC. (Extended models: 7.5~ 48VDC)

1.4.6 Review

After insert the SIM/UIM card and connect Ethernet cable and antenna, connect power supply adaptor or power cable.



Please connect the antenna before power on, otherwise the signal maybe poor because of impedance mismatching.

Notice:

- Step 1 Check the antenna connection.
- Step 2 Check SIM/UIM card, confirm SIM/UIM card is available.
- Step 3 Power on the industrial Router

----END

2 Router Configuration

WL-G520 Series routers support GUI and CLI configuration. This chapter introduce GUI configuration via Ethernet port, if need CLI configuration guide, please contact our technical support department by email: support@wlink-tech.com.

2.1 Local Configure

The router supports to be configured by local Ethernet port, you could specify a static IP or set as DHCP. The default IP address is 192.168.1.1 , subnet mask is 255.255.255.0, please refer to following.

- Step 1 Click “start > control panel”, find “Network Connections” icon and double click it to enter, select “Local Area Connection” corresponding to the network card on this page. Refer to the figure below.



Figure 2-1 Network Connection

- Step 2 Obtain a IP address automatically or set up IP address,192.168.1.xxx(XXX can be any number between 2~254)
- Step 3 Run an Internet Explorer and visit “<http://192.168.1.1/>”, to enter identify page.

User should use the default user name and password when log in for the first time



Figure 2-2 User Identify Interface

----END

2.2 Status

Check routers information such as status, traffic Stats and device list after login router. Especially, suggest change the password according to the prompts because of security requirement.

You haven't changed the default password for this router. To change router password [click here](#).

The UI will display "already changed login password successfully" after router reboot.

Already changed login password successfully.

2.3 Overview

The overview GUI will be display router system information, Ethernet ports status, VPN connection status, LAN information, 4G connection information and WLAN information,

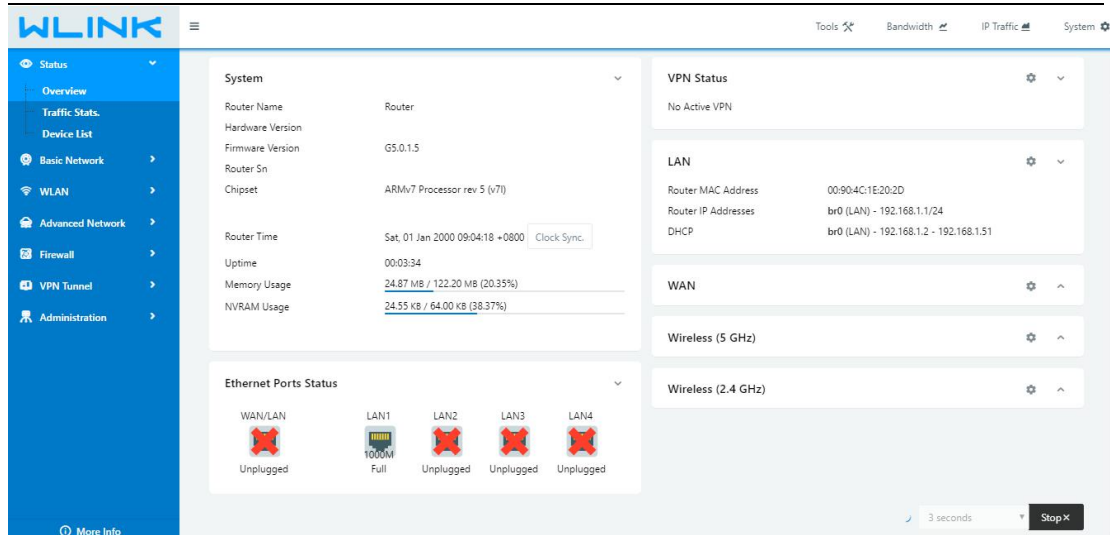


Figure 2-3 Router Status GUI

2.4 Traffic Stats.

Click Status->Traffic Stats. to enter the traffic stats.GUI.to check Cellular/WAN traffic in real-time.

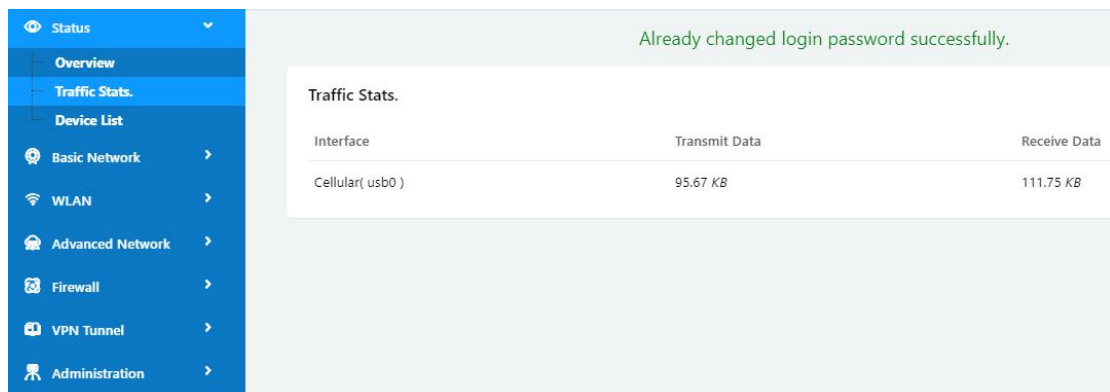


Figure 2-4 Traffic Stats. GUI

2.5 Device List

Click Status->Device List to enter the device list GUI.to check the connected devices information in the list.

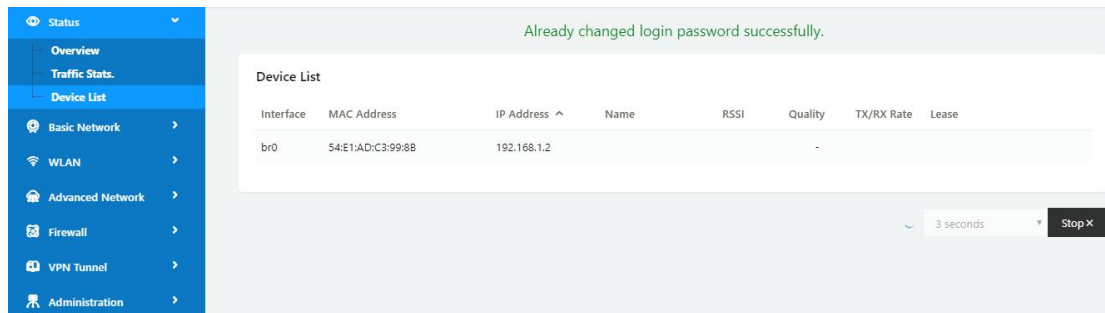


Figure 2-5 Device List GUI

2.6 Tool Column

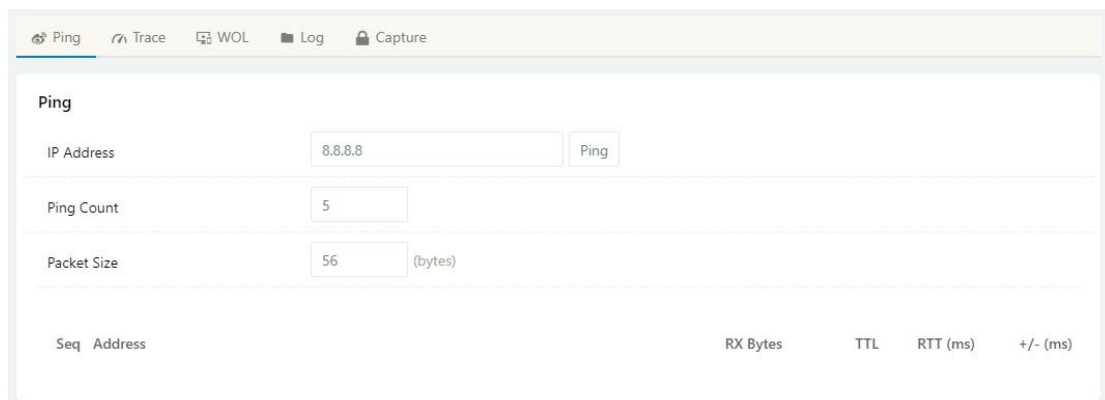


Figure 2-6 Tool Column GUI

2.6.1 Tools

2.6.1.1 Ping

Click Tools->Ping to enter ping test GUI. Used to test the reachability of a host on an Internet IP network and to measure the round-trip time for messages sent from the originating host to a destination server.



2.6.1.2 Trace

Click Tools->Trace to enter trace test GUI. diagnostic tool for displaying the route and measuring transit delays of packets across an Internet IP network.

2.6.1.3 WOL

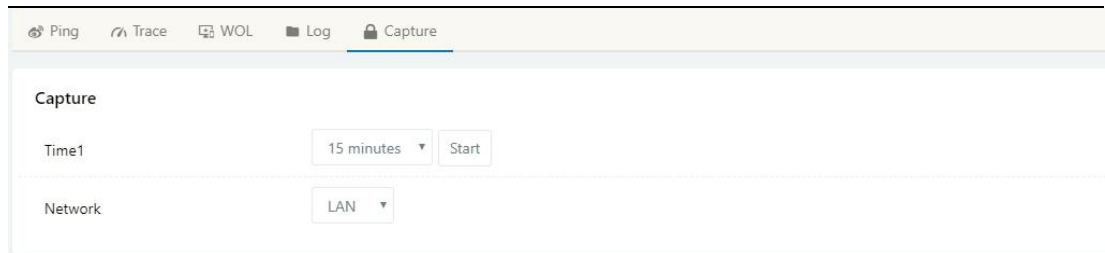
Click Tools-> WOL to enter WOL(Wake On Lan) GUI. Used to wake up those connected devices via WOL protocol. Click left mouse button to wake up the device.

2.6.1.4 Log

Click Tools-> Log to enter Log GUI. Use to check logs in GUI, download GUI and send logs to server.

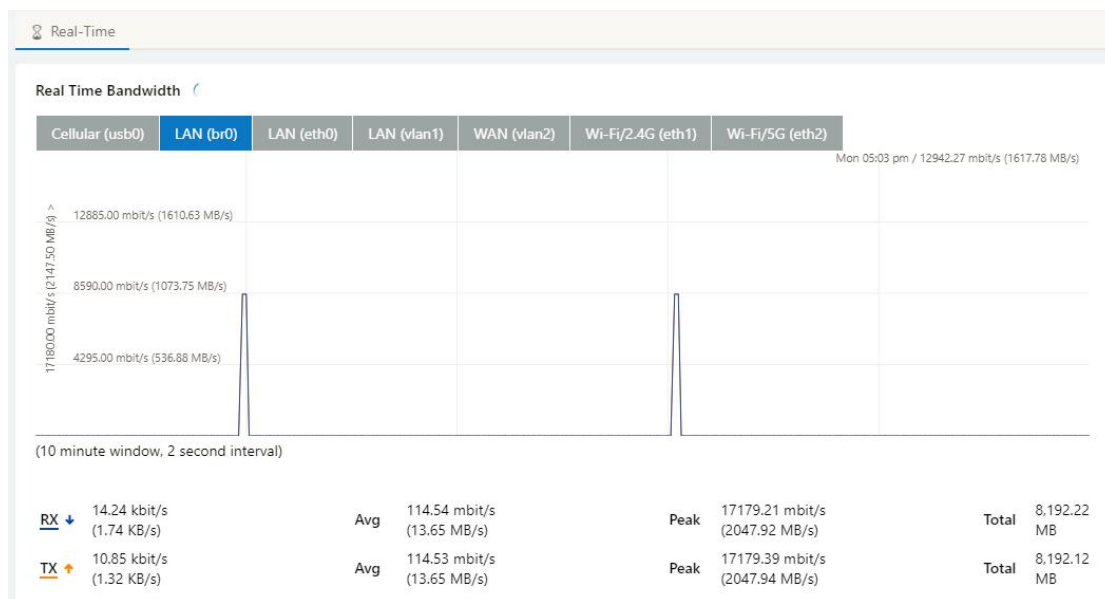
2.6.1.5 Capture

Click Tools-> Capture to enter capture data GUI. Use to capture LAN/WAN data packet to analyse what happen in the router.



2.6.2 Bandwidth

Click Bandwidth to enter bandwidth graphic GUI. Used to check cellular/LAN/Wi-Fi real-time bandwidth.



2.6.3 System

Click system to choose software reboot, hardware reboot and logout GUI.



2.7 Basic Network

2.7.1 WAN Setting

Step 1 Basic Network>WAN to enter below interface.

Table 2-1 WAN Setting Instruction

Parameter	Instruction
Type	Support DHCP, PPPoE, Static IP address

Step 2 After setting, please click “save” to finish, the device will reboot.

----End

2.7.2 Cellular Setting

Step 1 Basic Network-> Cellular, you can modify relevant parameter according to the application.

Basic Settings	SIM 1	SIM 2
SIM 1 Mode	Auto ▼	
SIM 1 PIN Code	<input type="text"/>	
SIM 1 APN	3GNET	
SIM 1 User	CARD	
SIM 1 Password	****	
SIM 1 Dial Number	*99#	
SIM 1 Auth Type	Auto ▼	
SIM 1 Local IP Address	<input type="text"/>	

Table 2-2 WAN Setting Instruction

Parameter	Instruction
Enable Modem	Enable/Disable 4G mode.
Use PPP	ECM dialup as default. PPP optional.
ICMP check	If enable ICMP check and setup a reachable IP address as destination IP, the router will reconnect/reboot once ICMP check failed.
Cellular Traffic Check	The router will reconnect/reboot once there's no Rx/Tx data.
CIMI Send to	Send CIMI to a defined IP and port by TCP protocol.
SMS Code	Remote control the router by SMS. Only the configured SMS code will work.
Operator Lock	Lock a specified operator for the router by MCC/MNC code.
Dual SIM Mode	<p>【Fail Over】 Two SIM cards mutual backup. Once SIM1 failed, it'll switch to SIM2 and work on SIM2, and vice versa.</p> <p>【SIM1 Only】 Only SIM1 works.</p> <p>【SIM2 Only】 Only SIM2 works.</p> <p>【Backup】 SIM1 is the primary SIM. Once SIM1 failed, it'll switch to SIM2 and work on SIM2 for a specified period of time, then it switches back to SIM1.</p>

Parameter	Instruction
Connect Mode	【Auto】 The router will automatically connect to 3G/4G networks and give priority to 4G. 【LTE】 Router will connect to 4G only. 【3G】 Router will connect to 3G only.
Pin Code	Some SIM cards are locked with a Personal Identification Number (PIN) code in case they are lost or stolen.
APN	APN is provided by local ISP, usually CDMA/EVDO networks do not need this parameter.
User	SIM card user name is provided by ISP
Password	SIM card password is provided by ISP
Auth. Type	Auto/PAP/Chap/MS-Chap/MS-Chapv2 authentication optional.
SIM Local IP Address	Fix SIM IP. The feature is available if carrier can provide this service.



NOTE ICMP Check and Cellular Traffic Check are alternative.

【ICMP Check】

Enable ICMP, Router will automatically check whether the defined IP address is reachable per 60s. If the IP address is unreachable and ICMP check is timeout at the first time, it will check 2 times every 3 seconds. If the third time is still failed, the router will redial.

The ICMP Check IP is a public IP or company server IP address.

ICMP Check	<input checked="" type="checkbox"/>
Check IP	<input type="text" value="8.8.8.8"/>
Check IP (Optional)	<input type="text" value="4.4.4.4"/>
Interval	<input type="text" value="60"/> (seconds)
Retries	<input type="text" value="3"/> (Times)
Fail Action	<input type="button" value="Reboot System"/>

【Cellular Traffic Check】

【Check Mode】 there are Rx(Receive), Tx(Transmission) and Rx/Tx check modes.

【Rx】Router will check the 3G/LTE cellular receiver traffic. If no receiver traffic within the defined check interval, the router will implement the specified action reconnect or reboot.

Cellular Traffic Check	<input checked="" type="checkbox"/>
Check Mode	Rx
Check Interval	10 (minutes) Range: 1 ~ 1440
Fail Action	Cellular Reconnect

Step 2 After Setting, please click “save” icon.

----End

2.7.3 LAN Setting

Step 1 Basic Network>LAN to enter below interface

- Status
- Basic Network
 - WAN
 - Cellular
 - LAN
 - VLAN
 - Schedule
 - DDNS
 - Routing
- WLAN
- Advanced Network
- Firewall
- VPN Tunnel
- Administration

More Info

Already changed login password successfully.

LAN

Bridge ^	IP Address	Subnet Mask	DHCP Server	IP Pool	Lease(minutes)
br0	192.168.1.1	255.255.255.0	✓	192.168.1.2 - 51	1440
1					

Add +

Save ✓ Cancel ✕

LAN

Bridge ^	IP Address	Subnet Mask	DHCP Server	IP Pool	Lease(minutes)
br0	192.168.1.1	255.255.255.0	✓	192.168.1.2 - 51	1440
1					

Add +

Save ✓ Cancel ✕

Table 2-3 LAN Setting Instruction

Parameter	Instruction
Bridge	Supports 4 LAN IP address for br0 to br3 interface. If need to support VLAN, please go to VLAN GUI.
Router IP Address	Router IP address, default IP is 192.168.1.1
Subnet Mask	Router subnet mask, default mask is 255.255.255.0
DHCP	Dynamic allocation IP service, after enable, it will show the IP address range and options of lease
IP Pool	IP address range within LAN
Lease	The valid time, unit as minute
Add	Add LAN IP address, supports 4 LAN IP addresses.

Step 2 After setting, please click “save” to finish, the device will reboot.

----End

2.7.4 VLAN

Step 1 Basic Network->VLAN to enter the VLAN setting page.

Table 2-4 LAN Setting Instruction

Parameter	Instruction
VID	VLAN ID number. The VID range is from 1 to 15.
LAN1~LAN4, WAN	LAN
Tagged	Enable to make router can encapsulate and de-encapsulate the VLAN tag.
Bridge	Routers interface br0, br1, br2, br3 and WAN

Step 2 Please Click “Save” to finish.

----End

2.7.5 VLAN

Step 3 Basic Network->VLAN to enter the VLAN setting page.

VID	LAN 1	Tagged	LAN 2	Tagged	LAN 3	Tagged	LAN 4	Tagged	WAN	Tagged	Bridge
1	✓	✗	✓	✗	✓	✗	✓	✗	✓	✗	br0
2	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	WAN
0											none

Buttons: Add +, Save ✓, Cancel ✕

Table 2-5 LAN Setting Instruction

Parameter	Instruction
VID	VLAN ID number. The VID range is from 1 to 15.
LAN1~LAN4, WAN	LAN
Tagged	Enable to make router can encapsulate and de-encapsulate the VLAN tag.
Bridge	Routers interface br0, br1, br2, br3 and WAN

Step 4 Please Click “Save” to finish.

----End

2.7.6 Schedule

Step 1 Basic Network->VLAN to enter the Schedule setting page.

Status

Basic Network

WAN

Cellular

LAN

VLAN

Schedule

DDNS

Routing

WLAN

Advanced Network

Firewall

VPN Tunnel

Administration

More Info

Enabled Links

Link Name	Link Type	Description
modem	ECM/QMI	

ICMP Check

On	Link	Destination	Interval	Retries	Description
<input checked="" type="checkbox"/>					

Add +

Schedule

On	Link 1	Link 2	Policy	Description
<input checked="" type="checkbox"/>	modem	modem	FAILOVER	

Add +

Enabled Links

Link Name	Link Type	Description
modem	ECM/QMI	

ICMP Check

On	Link	Destination	Interval	Retries	Description
<input checked="" type="checkbox"/>					

Add +

Schedule

On	Link 1	Link 2	Policy	Description
<input checked="" type="checkbox"/>	modem	modem	FAILOVER	

Add +

Save ✓

Cancel ✕

Step 2 Please Click "Save" to finish.

----End

2.7.7 Dynamic DNS Setting

Step 1 Basic Network->DDNS to enter the DDNS setting page.

Already changed login password successfully.

Dynamic DNS

IP Address: Use WAN IP Address 0.0.0.0 (recommended)

Auto refresh every: 28 minutes (0 = Disabled)

Dynamic DNS1

Service: None

Dynamic DNS2

Service: None

Save ✓ Cancel ✕

Dynamic DNS

IP Address: Use WAN IP Address 0.0.0.0 (recommended)

Auto refresh every: 28 minutes (0 = Disabled)

Dynamic DNS1

Service: None

Dynamic DNS2

Service: None

Save ✓ Cancel ✕

Table 2-6 DDNS Setting Instruction

parameter	Instruction
IP address	Default is standard DDNS protocol, for customized protocol, please contact Wlink engineer. Usually, use default IP 0.0.0.0
Auto refresh time	Set the interval of the DDNS client obtains new IP, suggest 240s or above
Service provider	Select the DDNS service provider that listed.

Step 2 Please Click “Save” to finish.

----End

2.7.8 Routing Setting

Step 1 Basic Network->Routing to enter the DDNS setting GUI.

Status

Basic Network

WAN

Cellular

LAN

VLAN

Schedule

DDNS

Routing

WLAN

Advanced Network

Firewall

VPN Tunnel

Administration

More Info

Current Routing Table

Destination	Gateway / Next Hop	Subnet Mask	Metric	Interface
192.168.1.0	*	255.255.255.0	0	LAN
127.0.0.0	*	255.0.0.0	0	lo

Static Routing Table

Destination	Gateway	Subnet Mask	Metric	Interface	Description
	0.0.0.0		0	LAN	

Add +

Miscellaneous

Mode

Gateway

RIPv1 & v2

Disabled

DHCP Routes

☒

Spanning-Tree Protocol

☐

Save

Cancel

Current Routing Table

Destination	Gateway / Next Hop	Subnet Mask	Metric	Interface
192.168.1.0	*	255.255.255.0	0	LAN
127.0.0.0	*	255.0.0.0	0	lo

Static Routing Table

Destination	Gateway	Subnet Mask	Metric	Interface	Description
	0.0.0.0		0	LAN	

Add +

Miscellaneous

Mode

Gateway

RIPv1 & v2

Disabled

DHCP Routes

☒

Spanning-Tree Protocol

☐

Save

Cancel

Table 2-7 Routing Setting Instruction

Parameter	Instruction
Destination	Router can reach the destination IP address.
Gateway	Next hop IP address which the router will reach
Subnet Mask	Subnet mask for destination IP address
Metric	Metrics are used to determine whether one particular route should be chosen over another.
Interface	Interface from router to gateway.
Description	Describe this routing name.

Step 2 Please Click “ Save “ to finish.

----End

2.8 WLAN Setting

It's mainly for router which support Wi-Fi, you can modify and configure WLAN parameter through Web GUI, below is the common setting.

2.8.1 Basic Setting

Step 1 WLAN->Basic Setting to configure relative parameter

The screenshot displays the 'WLAN' configuration page in the router's web interface. On the left, a sidebar menu shows 'WLAN' as the selected section, with sub-options for 'Basic Settings', 'Wireless Survey', 'Advanced Network', 'Firewall', 'VPN Tunnel', and 'Administration'. The main content area is titled 'Radio Mode' and shows '2.4G + 5G' selected. Below this, there are two tabs: 'Wireless(2.4 GHz)' and 'Wireless(5 GHz)'. The 'Wireless(2.4 GHz)' tab is active, showing various configuration options. The 'Wireless(5 GHz)' tab is also visible but not active. The settings are as follows:

Setting	Value
Radio Mode	2.4G + 5G
Wireless(2.4 GHz) / Wireless(5 GHz)	Wireless(2.4 GHz)
Enable WLAN	<input checked="" type="checkbox"/>
MAC Address	34:0A:92:19:51:03
Wireless Mode	Access Point
Radio Band	2.4 GHz
Wireless Network Mode	Auto
SSID	router-wifi_195103
Broadcast SSID	<input checked="" type="checkbox"/>
Channel	7 - 2.442 GHz
Channel Width	40 MHz
Control Sideband	Lower
Maximum Clients	128 (range: 1 - 255)
Security option	Disabled

Wireless(2.4 GHz)	Wireless(5 GHz)
Enable WLAN	<input checked="" type="checkbox"/>
MAC Address	34:0A:92:19:51:04
Wireless Mode	Access Point ▼
Radio Band	5 GHz ▼
Wireless Network Mode	Auto ▼
SSID	router-wifi_195103_5G
Broadcast SSID	<input checked="" type="checkbox"/>
Channel	149 - 5.745 GHz ▼ Scan 🔍
Channel Width	80 MHz ▼
Control Sideband	Lower ▼
Maximum Clients	128 (range: 1 - 255)
Security option	Disabled ▼

Table 2-8 Basic of WLAN Setting Instruction

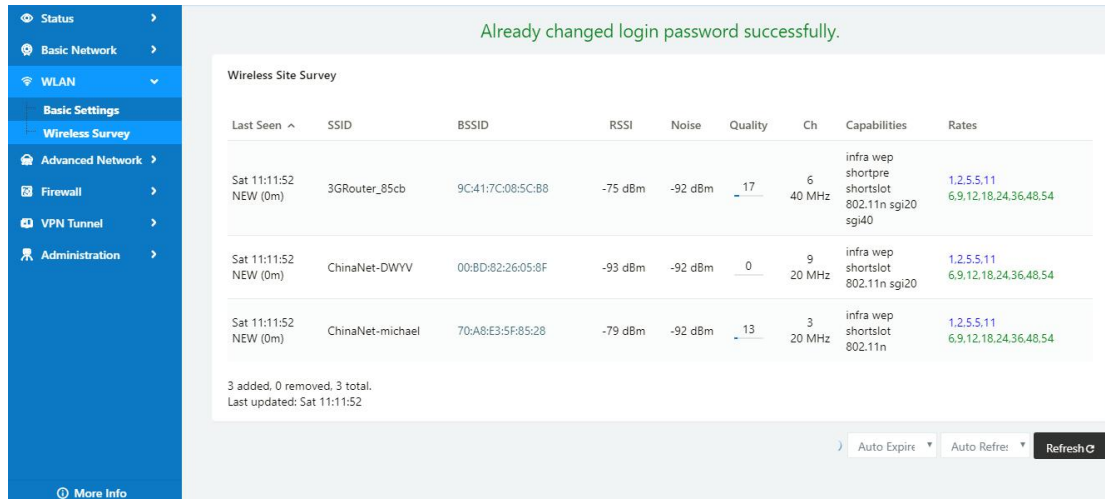
Parameter	Instruction
Radio Mode	2.4G+5G mode as default. Support 2.4G, 5G modes optional. 2.4G+5G model, Wi-Fi bandwidth for 683Mbps 2.4G model, Wi-Fi bandwidth for 300Mbps 5G model, Wi-Fi bandwidth for 866Mbps
Enable wireless	Enable or Disable the Wireless
Wireless mode	Support AP mode.
Wireless Network protocol	Support Auto/b/g/n optional for 2.4G. Support Auto/A/N optional for 2.5G.
SSID	The default is router, can be modified as per application.
Channel	The channel of wireless network, suggest keep the default
Channel Width	20MHz and 40MHz alternative for 2.4G. 20MHz, 40MHz and 80MHz alternative for 2.4G.
Security	Support various encryption method as requested.

Step 2 Please click "Save" to finish.

----End

2.8.2 Wireless Survey

Step 1 WLAN> Wireless Survey to check survey.



2.9 Advanced Network Setting

2.9.1 Port Forwarding

Step 1 Advanced Network > Port Forwarding to enter the GUI, you may modify the router name, Host name and Domain name according to the application requirement.

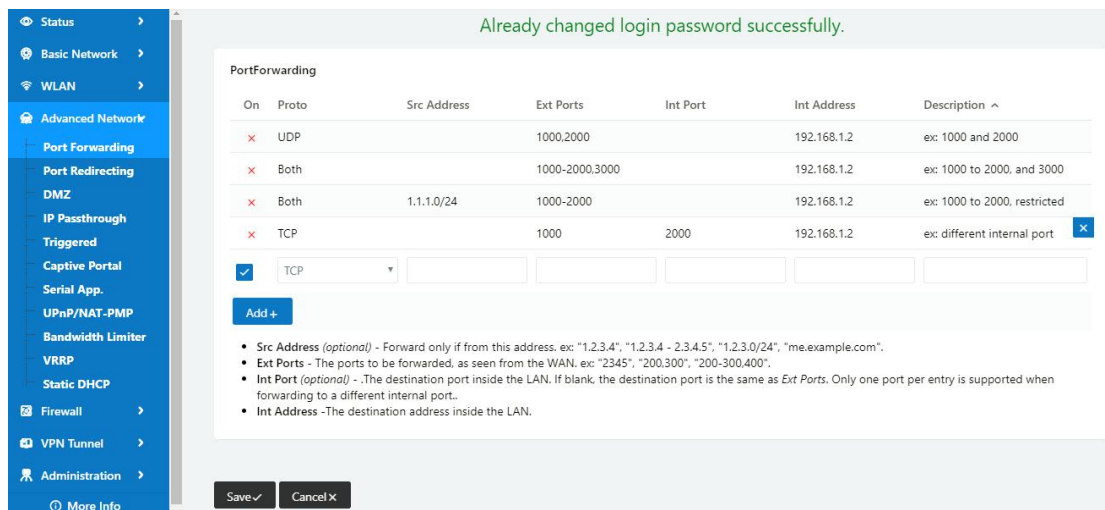


Table 2-9 Port Forwarding Instruction

Parameter	Instruction
Protocol	Support UDP, TCP, both UDP and TCP
Src. Address	Source IP address. Forward only if from this address.

Parameter	Instruction
Ext. Ports	External ports. The ports to be forwarded, as seen from the WAN.
Int. Port	Internal port. The destination port inside the LAN. If blank, the destination port is the same as Ext Ports. Only one port per entry is supported when forwarding to a different internal port.
Int. Address	Internal Address. The destination address inside the LAN.
Description	Remark the rule

Step 2 Please click "save" to finish

----End

2.9.2 Port Redirecting

Step 1 Advanced Network > Port Redirecting to enter the GUI, you may modify the router name, Host name and Domain name according to the application requirement.

Table 2-10 Port Redirecting Instruction

Parameter	Instruction
Protocol	Support UDP, TCP, both UDP and TCP
Int Port	Internal port.
Dst. Address	The redirecting IP address.
Ext. Ports	External port for redirection.
Description	Remark the rule

Step 2 Please click "save" to finish

----End

2.9.3 DMZ Setting

Step 1 Advanced Network> DMZ to check or modify the relevant parameter.

Table 2-11 DMZ Instruction

parameter	Instruction
Destination Address	The destination address inside the LAN.
Source Address Restriction	If no IP address inside, it will allow all IP address to access. If define IP address, it will just allow the defined IP address to access.
Leave Remote Access	

Step 2 Please click "save" to finish

----End

2.9.4 IP Passthrough Setting

Step 1 Advanced Network> IP Passthrough to check or modify the relevant parameter.

Table 2-12 IP Passthrough Instruction

parameter	Instruction
Enable	Enable IP Passthrough
MAC Address	Enable DHCP of device. Configure device Mac. Device will be assigned SIM IP.
Gateway	If WL-G520 connect to multiple device, input other device gateway. The device might access to router GUI.

Step 2 Please click "save" to finish

----End

2.9.5 Triggered Setting

Step 1 Advanced Network> Triggered to check or modify the relevant parameter.

Table 2-13 Triggered Instruction

parameter	Instruction
Protocol	Support UDP, TCP, both UDP and TCP
Triggered Ports	Trigger Ports are the initial LAN to WAN "trigger".
Transferred Ports	Forwarded Ports are the WAN to LAN ports that are opened if the "trigger" is activated.
Note	Port triggering opens an incoming port when your computer is using a specified outgoing port for specific traffic.

Step 2 Please click "save" to finish.

----End

2.9.6 Captive Portal

Step 1 Advanced Network> Triggered to check or modify the relevant parameter.

Table 2-14 Captive Portal Instruction

Parameter	Instruction
Enable	Enable Captive portal feature.
Auth Type	Reserved.
Web Root	Choose captive portal file storage path. Default: Captive portal file is in the firmware as default. In-storage: Captive portal file is in router's Flash. Ex-storage: Captive portal file is in extended storage such as SD card.

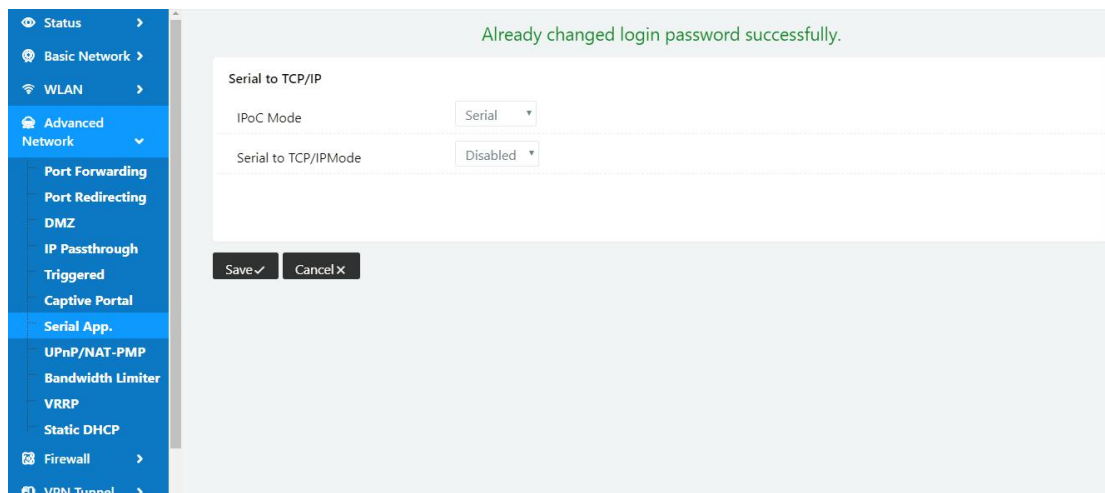
Parameter	Instruction
Web Host	Configure domain name for the captive portal access. For example, Configure as wlink.tech.com, we might directly access to captive portal page in the website as wlink.tech.com
Portal Host	Reserved.
Logged Timeout	Maximum time user has connectivity. User need to re-login Captive Portal page after defined time.
Idle Timeout	Maximum time user has connectivity if no network activity from Wi-Fi User.If User need to re-login Captive page to surf internet.
Ignore LAN	If enabled, LAN devices will bypass the Captive Portal page.
Redirecting	Router will redirect to the defined link after accepting the terms and conditions on the Captive Portal page.
MAC Whitelist	No captive portal page for Wi-Fi device.
Download QoS	Enable to apply the Download and Upload per user limits.
Upload Qos	Maximum download speed available to each user.

Step 2 Please click "save" to finish.

----End

2.9.7 Serial App. Setting

Step 1 Advanced Network> Serial App to check or modify the relevant parameter.



Serial to TCP/IP

IPoC Mode

Serial

Serial to TCP/IPMode

Client

Server IP/Port

8.8.8.8

:

40002

Socket Type

TCP

Socket Timeout

500

(milliseconds)

Serial Timeout

500

(milliseconds)

Packet Payload

1024

(bytes)

Heart-Beat Content

Heart-Beat Interval

2

(seconds)

Port Type

RS485/RS232

Cache Enable

☒

Debug Enable

☐

Baud Rate

57600

Parity Bit

none

Data Bit

8

Stop Bit

1

Save

Cancel

Table 2-15 Serial App Instruction

Parameter	Instruction
Serial to TC/IP mode	Support Disable, Server and Client mode. Such as Client.
Server IP/Port	IP address and domain name are acceptable for Server IP
Socket Type	Support TCP/UDP protocol
Socket Timeout	Router will wait the setting time to transmit data to serial port.
Serial Timeout	Serial Timeout is the waiting time for transmitting the data package that is less the Packet payload. If the last package equals to the Packet payload, Serial port will transmit it immediately. The default setting is 500ms.
Packet payload	Packet payload is the maximum transmission length for serial port data packet. The default setting is 1024bytes.
Heart-beat Content	Send heart beat to the defined server to keep router online. Meantime, it's convenient to monitor router from server.
Heart beat Interval	Heart beat interval time

Parameter	Instruction
Baud Rate	115200 as default
Parity Bit	None as default
Data Bit	8bit as default
Stop Bit	1bit as default

Step 2 Please click "save" to finish.

----End

2.9.8 UPnp/NAT-PMP Setting

Step 1 Advanced Network> Upnp/NAT-PMP to check or modify the relevant parameter.

Step 2 Please click "save" to finish.

----End

2.9.9 Bandwidth Control Setting

Step 1 Advanced Network> Bandwidth Control to check or modify the relevant parameter.

Table 2-16 Bandwidth Control Instruction

Max Available Download	Speed limit for router.
Max Available Upload	Speed limit for router.
IP/ IP Range/ MAC Address	Limit devices speed for specified IP/IP Range/ MAC Address.
DL Rate	Mix Download rate
DL ceil	Max download rate
UL Rate	Mix Upload rate
UL ceil	Max upload rate
Priority	The priority of a specific user.
Default Class	If no specified IP/MAC, the download and upload limit for total speed for all of device.

Step 2 Please click "save" to finish.

----End

2.9.10 VRRP Setting

Step 1 Advanced Network> VRRP to check or modify the relevant parameter.

Step 2 Please click "save" to finish.

----End

2.9.11 Static DHCP Setting

Step 1 Advanced Network> Static DHCP to check or modify the relevant parameter.

Step 2 Please click "save" to finish.

----End

2.10 Firewall

2.10.1 IP/URL Filtering

Step 1 Firewall> IP/URL Filtering to check or modify the relevant parameter.

Status

Basic Network

WLAN

Advanced Network

Firewall

IP/URL Filtering

Domain Filtering

VPN Tunnel

Administration

More Info

IP/MAC/Port Filtering

On	Src MAC	Src IP	Dst IP	Protocol	Src Port	Dst Port	Policy	Description
<input checked="" type="checkbox"/>				NOH			Acce	
Add +								

Key Word Filtering

On	Key Word	Description
<input checked="" type="checkbox"/>		
Add +		

URL Filtering

On	URL	Description
<input checked="" type="checkbox"/>		
Add +		

IP/MAC/Port Filtering

On	Src MAC	Src IP	Dst IP	Protocol	Src Port	Dst Port	Policy	Description
<input checked="" type="checkbox"/>				NOH			Acce	
Add +								

Key Word Filtering

On	Key Word	Description
<input checked="" type="checkbox"/>		
Add +		

URL Filtering

On	URL	Description
<input checked="" type="checkbox"/>		
Add +		

Access Filtering

On	Src MAC	Src IP	Dst IP	Protocol	Src Port	Dst Port	Policy	Description
<input checked="" type="checkbox"/>				NOH			Acce	
Add +								

Save ✓ Cancel ✕

Table 2-17 IP/URL Filtering Instruction

Parameter	Instruction
IP/MAC/Port Filtering	Support IP address, MAC address and port filter. Accept/Drop options for filter policy.
Key Word Filtering	Support key word filter.
URL Filtering	Support URL filter.
Access Filtering	Support Access Filter.

Step 2 Please click "save" to finish.

---End

2.10.2 Domain Filtering

Step 1 Firewall> Domain Filtering to check or modify the relevant parameter.

Table 2-18 Domain Filtering Instruction

Parameter	Instruction
Default Policy	Support black list and white list
Local IP Address	Local IP address for LAN.
Domain	Support Domain filter.

Step 2 Please click "save" to finish.

----End

2.11 VPN Tunnel

2.11.1 GRE Setting

Step 1 VPN Tunnel> GRE to check or modify the relevant parameter.

Table 2-19 GRE Instruction

Parameter	Instruction
IDx	GRE tunnel number
Tunnel Address	GRE Tunnel local IP address which is a virtual IP address.
Tunnel Source	Router's 3G/WAN IP address.
Tunnel Destination	GRE Remote IP address. Usually a public IP address
Keep alive	GRE tunnel keep alive to keep GRE tunnel connection.
Interval	Keep alive interval time.
Retries	Keep alive retry times. After retry times, GRE tunnel will be re-established.
Description	

Step 2 Please click "save" to finish.

----End

2.11.2 OpenVPN Client Setting

Step 1 VPN Tunnel> OpenVPN Client to check or modify the relevant parameter.

The screenshot displays the 'OpenVPN Client' configuration page. On the left, a blue sidebar contains a menu with options like 'Basic Network', 'WLAN', 'Advanced Network', 'Firewall', 'VPN Tunnel', 'GRE', 'OpenVPN Client' (highlighted), 'PPTP/L2TP Client', 'IPSec', and 'Administration'. The main content area is titled 'OpenVPN Client' and has tabs for 'Client 1' and 'Client 2'. Below the tabs are sub-tabs for 'Basic', 'Advanced', 'Keys', and 'Status'. The 'Basic' tab is active, showing settings for 'VPN Client #1 (Stopped)'. The settings include: 'Start with WAN' (checkbox), 'Interface Type' (dropdown set to 'TUN'), 'Protocol' (dropdown set to 'UDP'), 'Server Address' (text input with '1194'), 'Firewall' (dropdown set to 'Automatic'), 'Authorization Mode' (dropdown set to 'TLS'), 'Username/Password Authentication' (checkbox), 'HMAC authorization' (dropdown set to 'Disabled'), and 'Create NAT on tunnel' (checkbox checked). A 'Start Now' button is located at the bottom left of the configuration area.

OpenVPN Client

Client 1

Client 2

Basic

Advanced

Keys

Status

VPN Client #1 (Stopped)

Start with WAN

Interface Type

TUN

Protocol

UDP

Server Address

1194

Firewall

Automatic

Authorization Mode

TLS

Username/Password Authentication

HMAC authorization

Disabled

Create NAT on tunnel

Start Now

Save

Cancel

Table 2-20 Basic of OpenVPN Instruction

Parameter	Instruction
Start with WAN	Enable the Openvpn feature for 4G/3G/WAN port.
Interface Type	Tap and Tun type are optional. Tap is for bridge mode and Tunnel is for routing mode.
Protocol	UDP and TCP optional.
Server Address	The Openvpn server public IP address and port.
Firewall	Auto, External only and Custom are optional
Authorization Mode	TLS, Static key and Custom are optional.
User name/Password	As the configuration requested.

Parameter	Instruction
Authentication	
HMAC authorization	As the configuration requested.
Create NAT on tunnel	Configure NAT in Openvpn tunnel.

Basic Advanced Keys Status

VPN Client #1 (Stopped)

Poll Interval (in minutes, 0 to disable)

Redirect Internet traffic ☐

Accept DNS configuration

Encryption cipher

Compression

TLS Renegotiation Time (in seconds, -1 for default)

Connection retry (in seconds; -1 for infinite)

Verify server certificate (tls-remote) ☐

Custom Configuration

Start Now

Table 2-21 Advanced of OpenVPN Instruction

Parameter	Instruction
Poll Interval	Openvpn client check router's status as interval time.
Redirect Internet Traffic	Configure Openvpn as default routing.
Access DNS	As the configuration requested.
Encryption	As the configuration requested.
Compression	As the configuration requested.
TLS Renegotiation Time	TLS negotiation time. -1 as default for 60s.
Connection Retry Time	Openvpn retry to connection interval.
Verify server certificate	As the configuration requested.
Custom Configuration	As the configuration requested.

Basic Advanced **Keys** Status

VPN Client #1 (Stopped)

For help generating keys, refer to the OpenVPN HOWTO.

Certificate Authority

Client Certificate

Client Key

Start Now

Table 2-22 Keys of OpenVPN Instruction

Parameter	Instruction
Certificate Authority	Keep certificate as the same as server
Client Certificate	Keep client certificate as the same as server
Client Key	Keep client key as the same as server

OpenVPN Client

Client 1 Client 2

Basic Advanced **Keys** Status

VPN Client #1 (Stopped)

Client is not running or status could not be read.

Refresh Status

Start Now

Table 2-23 Status of OpenVPN Instruction

Parameter	Instruction
Status	Check Openvpn status and data statistics.

Step 2 Please click "save" to finish.

----End

2.11.3 PPTP/L2TP Client Setting

Step 1 VPN Tunnel> VPN Client to check or modify the relevant parameter.

L2TP/PPTP Basic

On	Protocol	Name	Server	Username	Password	Firewall	Default Route	Local IP
<input checked="" type="checkbox"/>	L2TP					<input type="checkbox"/>	<input type="checkbox"/>	
Add +								

L2TP Advanced

On	Name	Accept DNS	MTU	MRU	Tunnel Auth	Tunnel Password	Custom Options
<input checked="" type="checkbox"/>		NO			<input type="checkbox"/>		
Add +							

PPTP Advanced

On	Name	Accept DNS	MTU	MRU	MPPE	MPPE Stateful	Custom Options
<input checked="" type="checkbox"/>		NO			<input type="checkbox"/>	<input type="checkbox"/>	
Add +							

Schedule

On	Name 1	Name 2	Policy	Description
<input checked="" type="checkbox"/>			FAILOVER	
Add +				

Table 2-24 PPTP/L2TP Basic Instruction

parameter	Instruction
On	VPN enable
Protocol	VPN Mode for PPTP and L2TP
Name	VPN Tunnel name
Server Address	VPN Server IP address.
User name	As the configuration requested.
Password	As the configuration requested.
Firewall	Firewall For VPN Tunnel
Local IP	Defined Local IP address for tunnel

Table 2-25 L2TP Advanced Instruction

On	L2TP Advanced enable
Name	L2TP Tunnel name
Accept DNS	As the configuration requested.
MTU	MTU is 1450bytes as default
MRU	MRU is 1450bytes as default
Tunnel Auth.	L2TP authentication Optional as the configuration requested.
Tunnel Password	As the configuration requested.

Custom Options	As the configuration requested.
----------------	---------------------------------

Table 2-26 PPTP Advanced Instruction

On	PPTP Advanced enable
Name	PPTP Tunnel name
Accept DNS	As the configuration requested.
MTU	MTU is 1450bytes as default
MRU	MRU is 1450bytes as default
MPPE	As the configuration requested
MPPE Stateful	As the configuration requested
Customs	As the configuration requested

Table 2-27 SCHEDULE Instruction

On	VPN SCHEDULE feature enable
Name1	VPN tunnel name
Name2	VPN tunnel name
Policy	Support VPN tunnel backup and failover modes optional
Description	As the configuration requested

Step 2 Please click "save" to finish.

---End

2.11.4 IPSec Setting

Already changed login password successfully.

IPSec

IPSec 1 | IPSec 2 | Schedule

Group Setup | Basic Setup | Advanced Setup

Enable IPSec ☐

IPSec Extensions Normal ▾

Local Security Gateway Interface 3G Cellular ▾

Local Security Group Subnet/Netmask 192.168.1.0/24 ex. 192.168.1.0/24

Local Security Firewalling ☒

Remote Security Gateway IP/Domain

Remote Security Group Subnet/Netmask 10.0.0.0/24 ex. 192.168.88.0/24

Remote Security Firewalling ☒

Save ✓ Cancel ✕

2.11.4.1 IPSec Group Setup

Step 1 IPSec> Group Setup to check or modify the relevant parameter.

Group Setup | Basic Setup | Advanced Setup

Enable IPSec ☐

IPSec Extensions Normal ▾

Local Security Gateway Interface 3G Cellular ▾

Local Security Group Subnet/Netmask 192.168.1.0/24 ex. 192.168.1.0/24

Local Security Firewalling ☒

Remote Security Gateway IP/Domain

Remote Security Group Subnet/Netmask 10.0.0.0/24 ex. 192.168.88.0/24

Remote Security Firewalling ☒

Table 2-28 IPSec Group Setup Instruction

parameter	Instruction
IPSec Extensions	Support Standard IPSec, GRE over IPSec, L2TP over IPSec
Local Security Interface	Defined the IPSec security interface
Local Subnet/Mask	IPSec local subnet and mask.
Local Firewall	Forwarding-firewalling for Local subnet

parameter	Instruction
Remote IP/Domain	IPsec peer IP address/domain name.
Remote Subnet/Mask	IPSec remote subnet and mask.
Remote Firewall	Forwarding-firewalling for Remote subnet

Step 2 Please click "save" to finish.

2.11.4.2 IPSec Basic Setup

Step 1 IPSec >Basic Setup to check or modify the relevant parameter.

Group Setup
Basic Setup
Advanced Setup

Keying Mode
IKE with Preshared Key

Phase 1 DH Group
Group 2 - modp1024

Phase 1 Encryption
3DES (168-bit)

Phase 1 Authentication
MD5 HMAC (96-bit)

Phase 1 SA Life Time
28800
seconds

Phase 2 DH Group
Group 2 - modp1024

Phase 2 Encryption
3DES (168-bit)

Phase 2 Authentication
MD5 HMAC (96-bit)

Phase 2 SA Life Time
3600
seconds

Preshared Key

Table 2-29 IPSec Basic Setup Instruction

parameter	Instruction
Keying Mode	IKE preshared key
Phase 1 DH Group	Select Group1, Group2, Group5 from list. It must be matched to remote IPsec setting.
Phase 1 Encryption	Support 3DES, AES-128, AES-192, AES-256

parameter	Instruction
Phase 1 Authentication	Support HASH MD5 and SHA
Phase 1 SA Life Time	IPSec Phase 1 SA lifetime
Phase 2 DH Group	Select Group1, Group2, Group5 from list. It must be matched to remote IPSec setting.
Phase 2 Encryption	Support 3DES, AES-128, AES-192, AES-256
Phase 2 Authentication	Support HASH MD5 and SHA
Phase 2 SA Life Time	IPSec Phase 2 SA lifetime
Preshared Key	Preshared Key

Step 2 Please click "save" to finish.

2.11.4.3 IPSec Advanced Setup

Step 1 IPSec >Advanced Setup to check or modify the relevant parameter.

Group Setup	Basic Setup	Advanced Setup
		Aggressive Mode <input type="checkbox"/>
		Compress(IP Payload Compression) <input type="checkbox"/>
		Dead Peer Detection(DPD) <input type="checkbox"/>
		ICMP Check <input type="checkbox"/>
		IPSec Custom Options 1 <input type="text"/>
		IPSec Custom Options 2 <input type="text"/>
		IPSec Custom Options 3 <input type="text"/>
		IPSec Custom Options 4 <input type="text"/>

Table 2-30 IPSec Advanced Setup Instruction

parameter	Instruction
Aggressive Mode	Default for main mode
ID Payload Compress	Enable ID Payload compress
DPD	To enable DPD service
ICMP	ICMP Check for IPSec tunnel
IPSec Custom Options	IPSec advanced setting such as left/right ID.

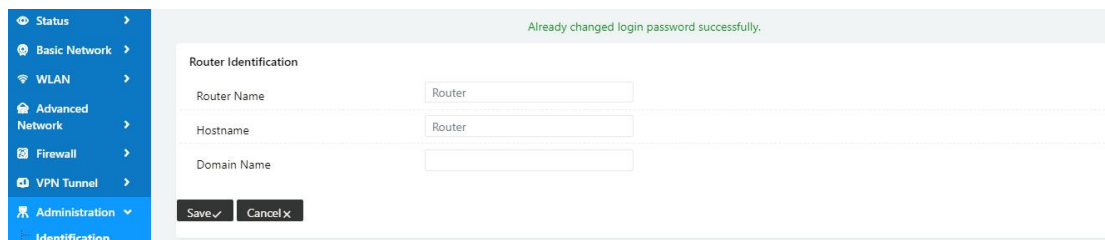
Step 2 Please click "save" to finish.

----End

2.12 Administration

2.12.1 Identification Setting

Step 1 Please click "Administrator> Identification" to enter the GUI, you may modify the router name, Host name and Domain name according to self-requirement.



Router Identification

Router Name

Hostname

Domain Name

Table 2-31 Router Identification Instruction

Parameter	Instruction
Router name	Default is router, can be set maximum 32 character
Host name	Default is router, can be set maximum 32 character

Parameter	Instruction
Domain name	Default is empty, support maximum up to 32 character, it is the domain of WAN, no need to configure for most application.

Step 2 Please click "save" to finish

----End

2.12.2 Time Setting

Step 1 Please click “Administrator> time” to check or modify the relevant parameter.



If the device is online but time update is fail, please try other NTP Time Server.

Step 2 Please click “save to finish.

----End

2.12.3 Admin Access Setting

Step 1 Please click “Administrator>Admin” to check and modify relevant parameter.

In this page, you can configure the basic web parameter, make it more convenient for usage. Please note the “password” is the router system account password.

Step 2 Please click save icon to finish the setting

----End

2.12.4 Schedule Reboot Setting

Step 1 Please click “Administrator>Schedule Reboot” to check and modify relevant parameter.

Step 2 Please click save icon to finish the setting

----End

2.12.5 SNMP Setting

Step 1 Please click “Administrator>SNMP” to check and modify relevant parameter.

SNMP Settings

Enable SNMP ☐

Port: 161

Remote Access ☐

Allowed Remote: (optional) eg: "1.1.1.1", "1.1.1.0/24", "1.1.1.1 - 2.2.2.2" or "me.example.com"

Location: router

Contact: admin@router

RO Community: rocommunity

Custom OID:

1.3.6.1.4.1.2021.505	eg/bin/nvram get snmp_enable
1.3.6.1.4.1.2021.506	

Step 2 Please click save icon to finish the setting

----End

2.12.6 Storage Setting

Step 1 Please click “Administrator>Storage Setting” to check and modify relevant parameter.

Storage settings

Storage: Router Total: 5,184.00 KB Free: 4,924.00 KB

Upload new file

No file chosen

Current file list

File name	File size	File operation

Step 2 Please click save icon to finish the setting



NOTE WL-G520 series router supports extra storage. The default storage path is Router

----End

2.12.7 M2M Access Setting (Apply to M2M Management Platform installation application only)

Step 1 Please click “Administrator>M2M Access” to check and modify relevant parameter.

m2m	
M2M Enabled	<input type="checkbox"/>
Fail Action	Restart M2M
Device ID	<input type="text"/>
M2M Server/Port	<input type="text"/> : 8000
Heartbeat Intval	60 (seconds)
Heartbeat Retry	10 (Range:10-1000)
Named-Pipe Enabled	Remote Connect
Named-Pipe Server Port	8002 (Range:1024-65535)
Named-Pipe Status	Offline
Named-Pipe Address	0.0.0.0

Step 2 Please click save iron to finish the setting

----End

2.12.8 Configuration Setting

Step 1 Please click “ Administrator> Configuration ” to do the backup setting

Backup Configuration

router_015_m1E202D .cfg Backup

Save As Default Configuration

Save

Restore Configuration

Select the configuration file to restore:

No file chosen Choose File Restore

Restore Default Configuration

Select... OK

Total / Free NVRAM: 64.00 KB / 39.45 KB (61.63%)

Figure 3-1 Backup and Restore Configuration GUI



Restore Default would lose all configuration information, please be careful.

Step 2 After setting the backup and restore configuration. The system will reboot automatically.

----End

2.12.9 System Log Setting

Step 3 Please click “Administrator> Logging” to start the configuration, you can set the file path to save the log (Local or remote sever).

Syslog	
Log Internally	<input checked="" type="checkbox"/>
Log To Remote System	<input type="checkbox"/>
Generate Marker	Every 1 Hour
Limit	60 (messages per minute / 0 for unlimited)

Save Cancel

Figure 3-2 System log Setting GUI

Step 4 After configure, please click “Save” to finish.

----End

2.12.10 Firmware upgrade

Step 5 Please click “Administrator>firmware upgrade” to open upgrade firmware tab.

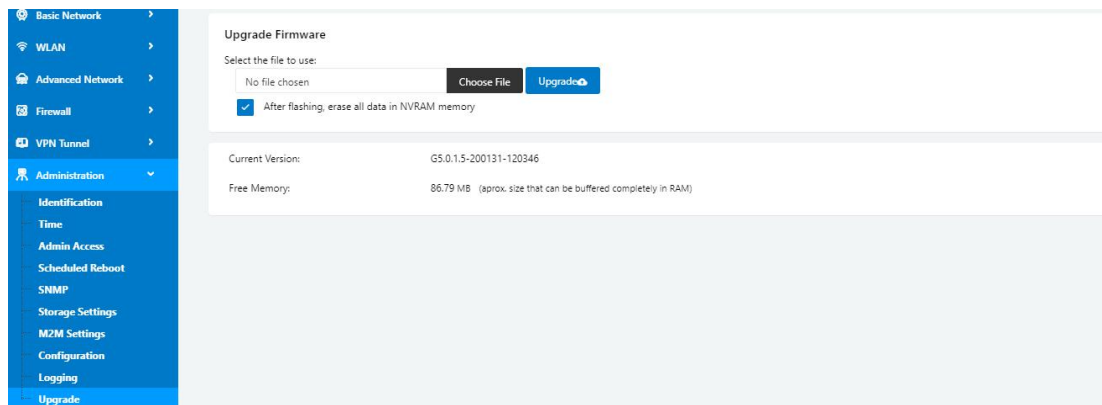


Figure 3-3 Firmware Upgrade GUI



NOTE

Please don't cut off the power during upgrade. The upgrade period will be taken about 4mins.

2.12.11 “Reset” Button for Restore Factory Setting

If you couldn't enter web interface for other reasons, you can also use this way.

“Reset” button is near to Console port in WL-G520 panel, This button can be used when the router is in use or when the router is turned on.

Press the “RST” button and keep more than 8 seconds till the NET light stopping blink. The system will be reverted to factory.

Table 2-32 System Default Instruction

Parameter	Default setting
LAN IP	192.168.1.1
LAN Subnet Mask	255.255.255.0
DHCP server	Enable
User Name	admin
Password	admin



NOTE

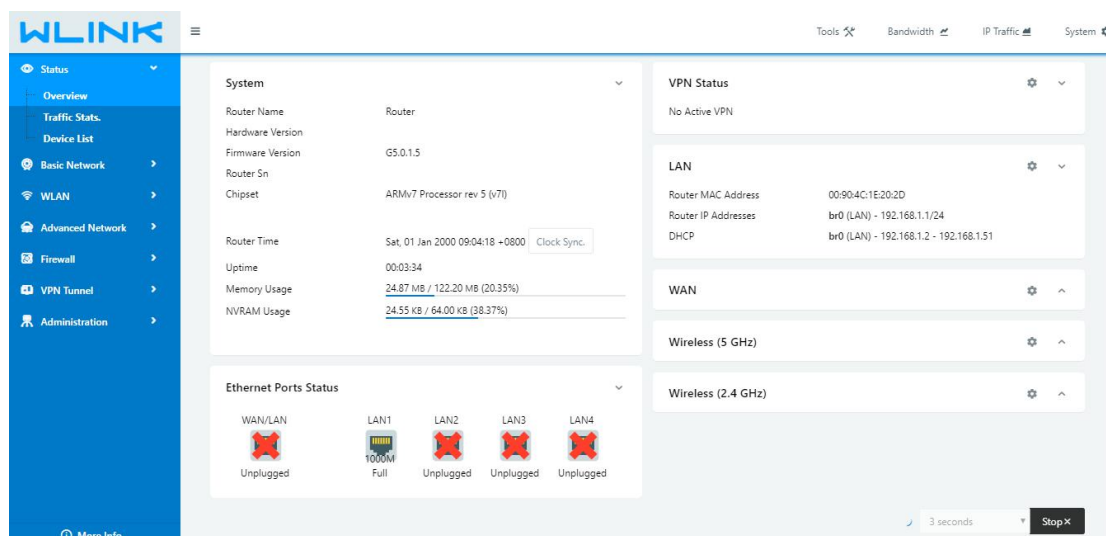
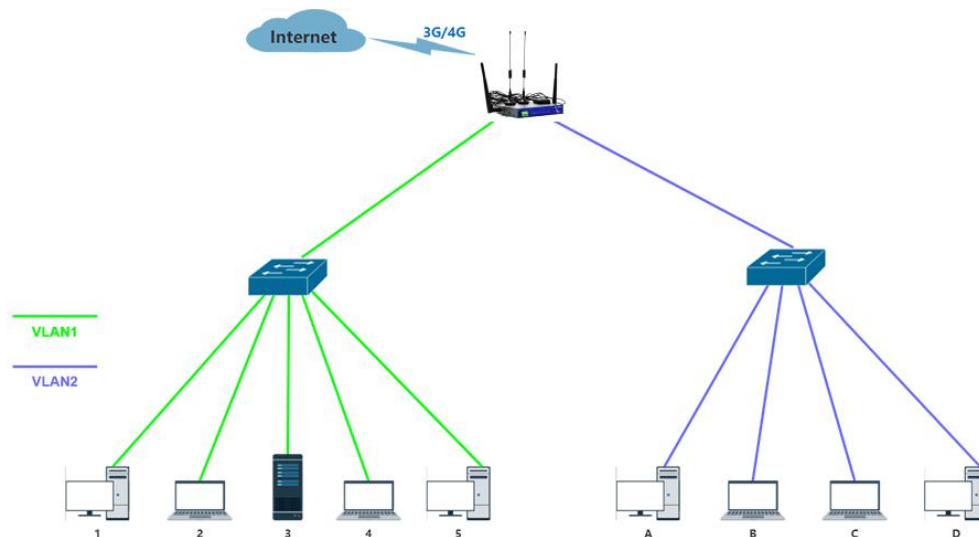
After reboot, the previous configuration would be deleted and restore to factory settings.

3 Configuration Instance

This chapter is mainly for configured test case, there would be some difference between the scheme and real object. But the difference doesn't have any influence to products performance.

3.1 VLAN

WL-G520 supports VLAN partition based on Ethernet port (LAN1~LAN5)



1) Configure LAN with Basic Network.

You haven't changed the default password for this router. To change router password [click here.](#)

LAN

Bridge ^	IP Address	Subnet Mask	DHCP Server	IP Pool	Lease(minutes)
br0	192.168.1.1	255.255.255.0	✓	192.168.1.2 - 51	1440
br1	192.168.10.1	255.255.255.0	✓	192.168.10.100 - 120	1440
br2	192.168.20.1	255.255.255.0	✓	192.168.20.100 - 120	1440

3 ☐

Add +

Save ✓ **Cancel ✕**

2) If untag for br1 and br2, it won't be accessed between SW1 and SW2.

You haven't changed the default password for this router. To change router password [click here.](#)

VLAN

VID ^	LAN 1	Tagged	LAN 2	Tagged	LAN 3	Tagged	LAN 4	Tagged	WAN	Tagged	Bridge
0	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	br1
1	✗	✗	✓	✗	✓	✗	✗	✗	✓	✗	br0
2	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	WAN
3	✗	✗	✗	✗	✗	✗	✓	✗	✗	✗	br2
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	none

Add +

Save ✓ **Cancel ✕**

3) If tag for br1 and br2, it will be accessed between sw1 and sw2.

You haven't changed the default password for this router. To change router password [click here.](#)

VLAN

VID ^	LAN 1	Tagged	LAN 2	Tagged	LAN 3	Tagged	LAN 4	Tagged	WAN	Tagged	Bridge
0	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗	br1
1	✗	✗	✓	✗	✓	✗	✗	✗	✓	✗	br0
2	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	WAN
3	✗	✗	✗	✗	✗	✗	✓	✓	✗	✗	br2
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	none

Add +

Save ✓ **Cancel ✕**

---End

3.2 WAN Backup (WAN as Main, Cellular Backup)

The WAN and Cellular backup feature can quickly switch traffic to Cellular (link2) when WAN (link1) fails, and WL-G520 brings you a stable network experience.

- 1) Navigate to **Basic Network > WAN**, you may configure the WAN parameters with your situation

- 2) Navigate to **Basic Network > VLAN**, enable the LAN1 as WAN Ethernet

VID	LAN 1	Tagged	LAN 2	Tagged	LAN 3	Tagged	LAN 4	Tagged	WAN	Tagged	Bridge
1	✓	✗	✓	✗	✓	✗	✓	✗	✗	✗	br0
2	✗	✗	✗	✗	✗	✗	✗	✗	✓	✗	WAN

- 3) Navigate to **Basic network > Cellular**, configure the APN as your SIM

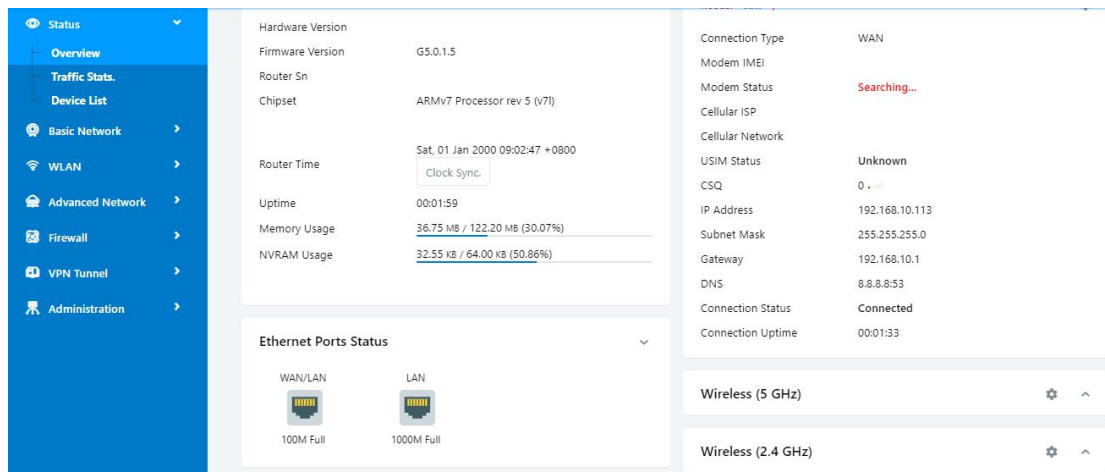
4) Navigate to **Basic Network > Schedule**, configure WAN (Link1) preferred, Cellular backup (Link2)

Add ICMP Check to WAN

Set the working mode (Schedule)

Parameters	Instruction
modem	The router dial-up to network via modem
wan	The router dial-up to network via WAN (DHCP, PPPOE, Static IP) Ethernet
ICMP Check	When the ICMP Check fails, the switching action between Link1 and Link2 will be triggered
Link1	The preferred link
Link2	The alternate link
BACKUP	Backup mode, Link1 and Link2 will remain online at the same time
FAILOVER	Failover mode, Link2 will dial-up to network when link1 fails

5) Status: WAN working



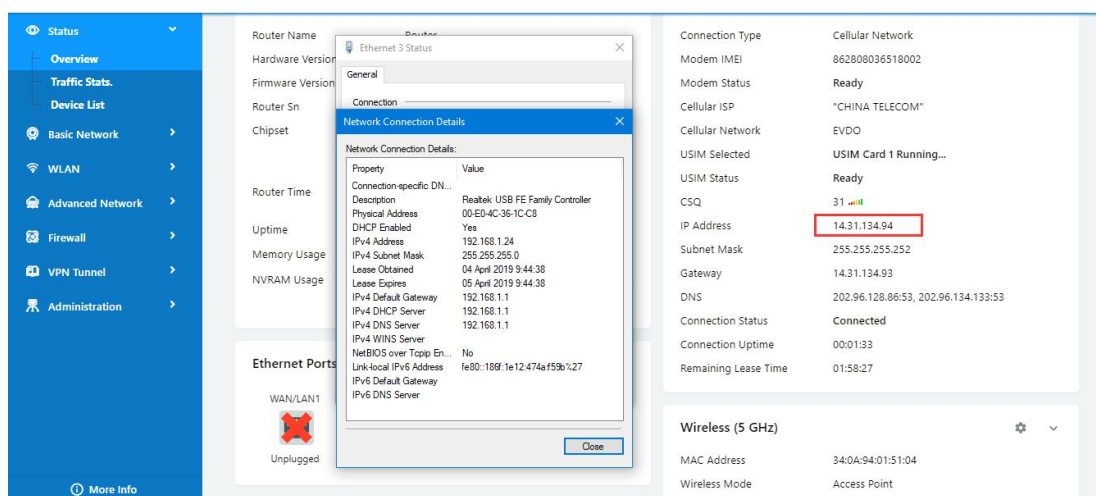
6) The system quickly switches traffic to Cellular when the WAN fails
---End

3.3 Port Forwarding

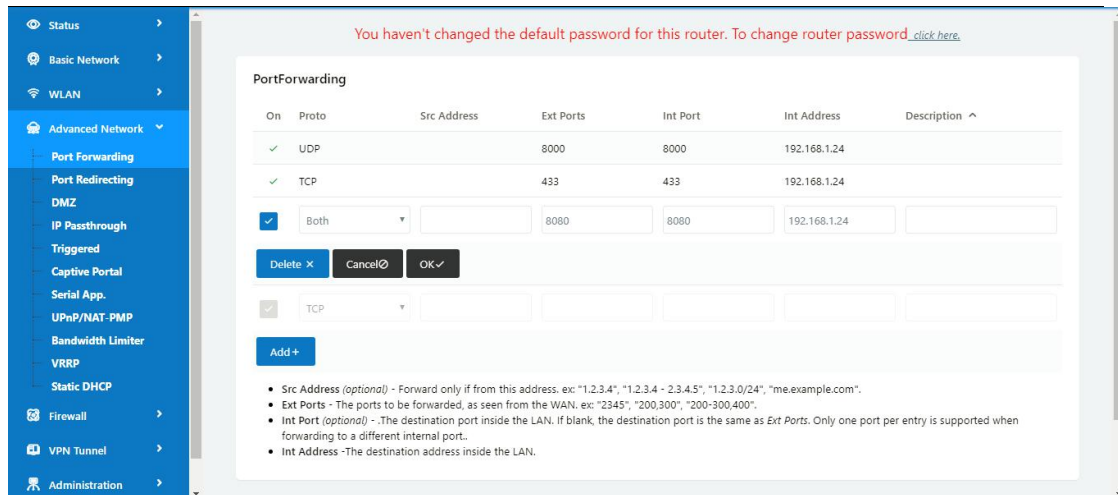
1) The router online and got a public IP address 14.31.134.94

Note: It's based on SIM card carrier

2) The PC is connected to router and got IP address 192.168.1.24



3) Configuration

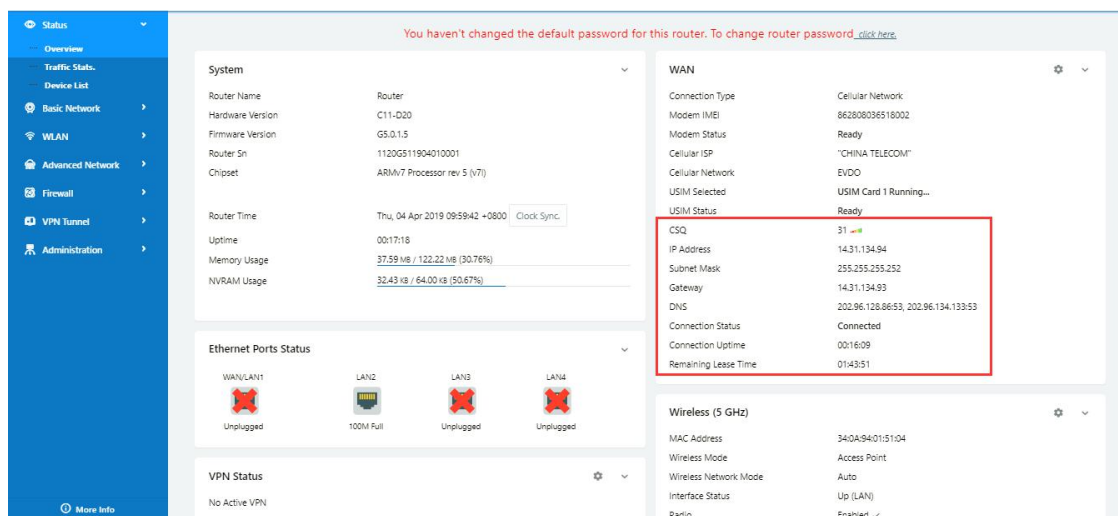


4) The PC can be accessed via 14.31.134.94:443 over Internet

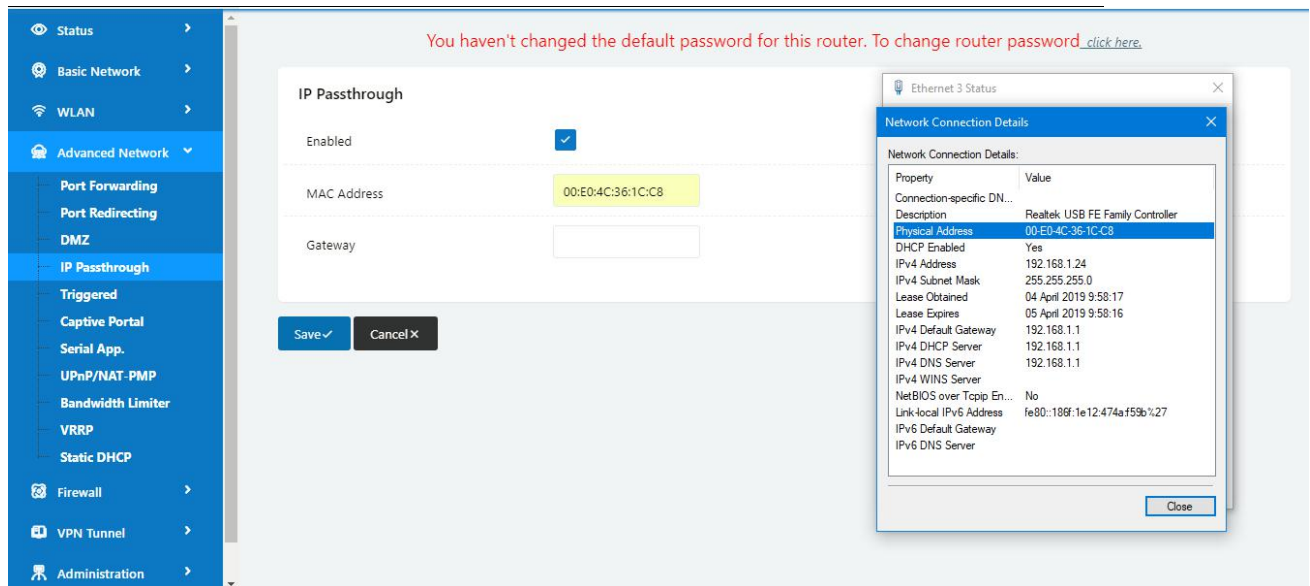
---End

3.4 IP Passthrough

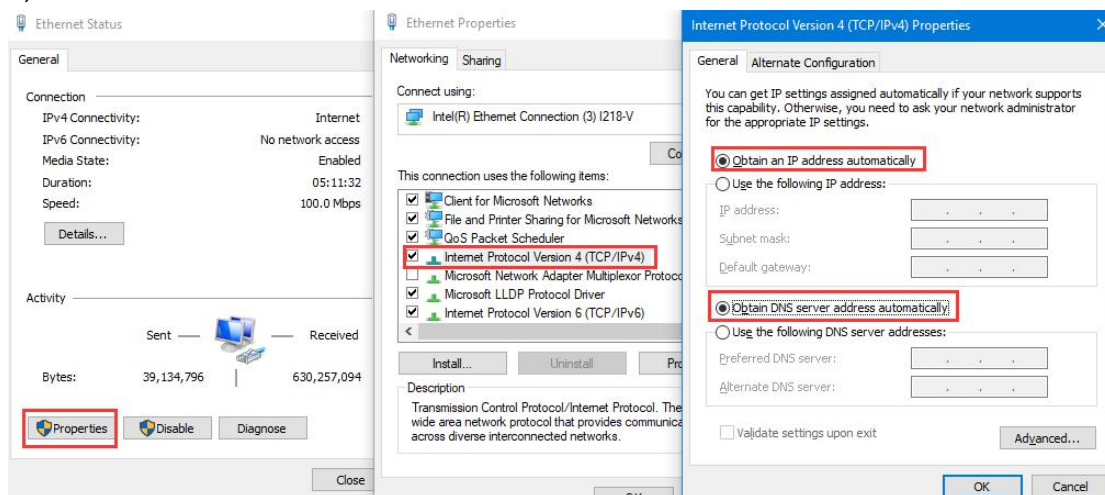
1) The router online



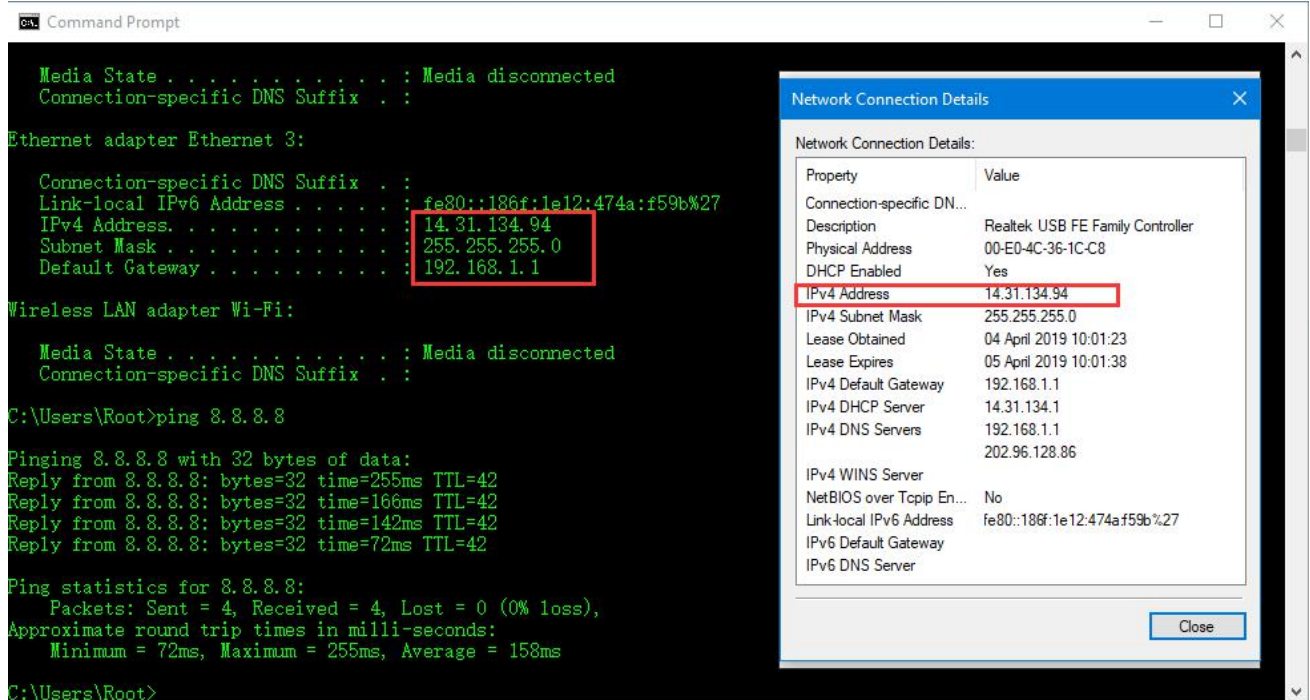
2) Configure IP passthrough destination MAC address (PC Ethernet MAC)



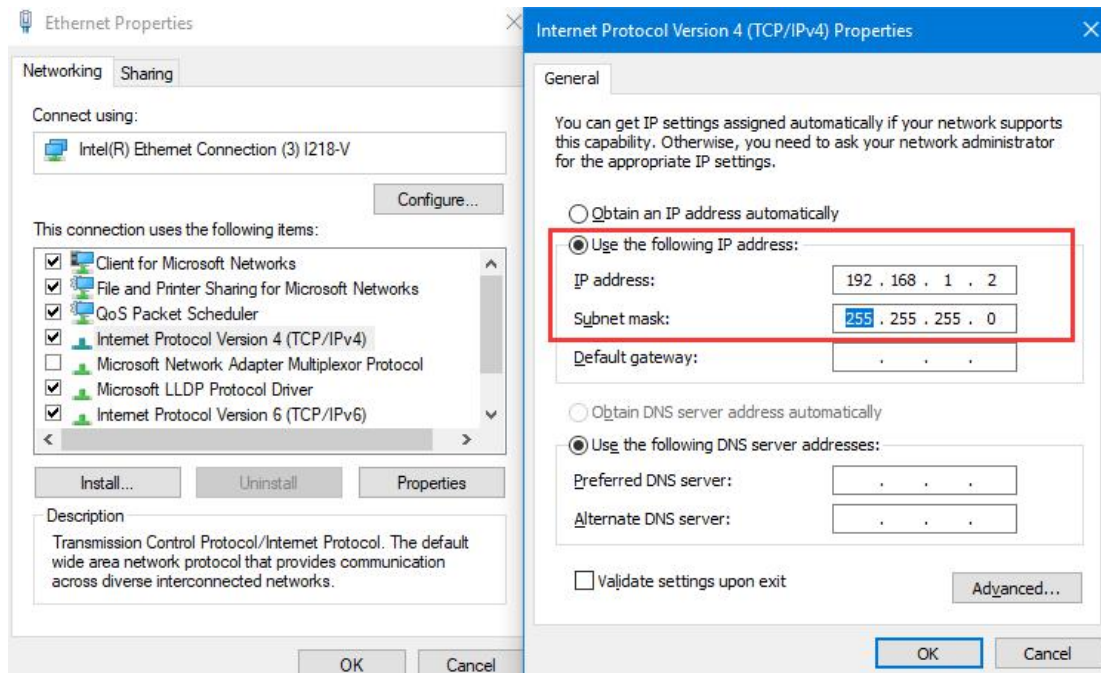
3) Set the PC to DHCP



4) Check the Ethernet status and ping test



5) Set the PC Ethernet as DHCP to release the IP and access to router GUI again



---End

3.5 Captive Portal

Please click "Advanced Network> Captive Portal" to check or modify the relevant parameter.

The screenshot shows the 'Captive Portal' configuration page. On the left is a blue sidebar menu with options: Status, Basic Network, WLAN, Advanced Network (selected), Port Forwarding, Port Redirecting, DMZ, IP Passthrough, Triggered, Captive Portal (selected), Serial App., UPnP/NAT-PMP, Bandwidth Limiter, VRRP, Static DHCP, Firewall, VPN Tunnel, and Administration. The main content area is titled 'Captive Portal' and contains the following settings:

- Enabled: ☒
- Auth Type: NONE (dropdown)
- WEB Root: Default (dropdown)
- WEB Host: (text input)
- Portal Host: (text input)
- Login Timeout: 0 Minutes
- Idle Timeout: 0 Minutes
- Ignore LAN: ☒
- Redirecting http://: www.google.com (text input)
- MAC Address Whitelist: (text input)
- Download QOS: ☐
- Upload QOS: ☐

At the bottom of the main area are 'Save' and 'Cancel' buttons.

1) Upload Portal file and Splash.html by local

Upload portal images and splash.html in router for the Slider (0001_portal.png, 0002_portal.png, and 0003_portal.png) to the Router under the “Administration / Storage Settings” menu.

Furthermore, also might upload splash with images together.

The screenshot shows the 'Storage Settings' page. At the top, a red warning message states: 'You haven't changed the default password for this router. To change router password [click here](#).' The left sidebar menu is the same as in the previous screenshot, with 'Administration' selected and 'Storage Settings' highlighted. The main content area is titled 'Storage settings' and includes:

- A 'Storage' dropdown menu set to 'Router' and a status indicator 'Total 15,632.00 KB Free 5,372.00 KB'.
- An 'Upload new file' section with a 'No file chosen' text, a 'Choose File' button, and an 'Upload' button.
- A 'Current file list' section with a table:

File name	File size	File operation
sms.list	159	Delete Download

At the bottom of the main area are 'Save' and 'Cancel' buttons.

Each Ad file just supports 3 Ad portal images. Picture format is acceptable for png/jpg and image size is less than 100Kbytes and resolution is 800*600. Picture name is 0001_portal.png, 0002_portal.png and 0003_portal.png. Furthermore, please keep image names the same between portal file and splash.html.

- Status
- Basic Network
- WLAN
- Advanced Network
- Firewall
- VPN Tunnel
- Administration
 - Identification
 - Time
 - Admin Access
 - Scheduled Reboot
 - SNMP
 - Storage Settings
 - M2M Settings
 - DI/DO Setting
 - Configuration
 - Logging
 - Upgrade

More Info

Storage settings

Storage: Router Total: 5,632.00 KB Free: 5,100.00 KB

Upload new file

No file chosen Choose File Upload

Current file list

File name	File size	File operation
0001_portal.png	23.8K	✖ 📄
0002_portal.png	45.3K	✖ 📄
0003_portal.png	46.0K	✖ 📄
bootstrap_portal.css	124.3K	✖ 📄
jquery_portal.js	289.7K	✖ 📄
splash.html	3.4K	✖ 📄

```

<!-- <hr> -->

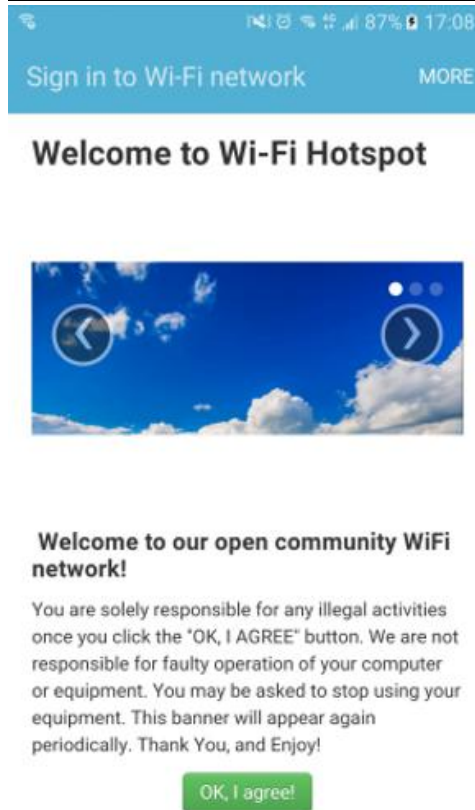
<div id="myCarousel" class="carousel slide marketing">
  <ol class="carousel-indicators">
    <li data-target="#myCarousel" data-slide-to="0" class="active"></li>
    <li data-target="#myCarousel" data-slide-to="1"></li>
    <li data-target="#myCarousel" data-slide-to="2"></li>
  </ol>

  <div class="carousel-inner">
    <div class="item active">
      
    </div>
    <div class="item">
      
    </div>
    <div class="item">
      
    </div>
  </div>
  <a class="left carousel-control" href="#myCarousel" data-slide="prev">&lsaquo;</a>
  <a class="right carousel-control" href="#myCarousel" data-slide="next">&rsaquo;</a>
</div>

<!-- <hr> -->

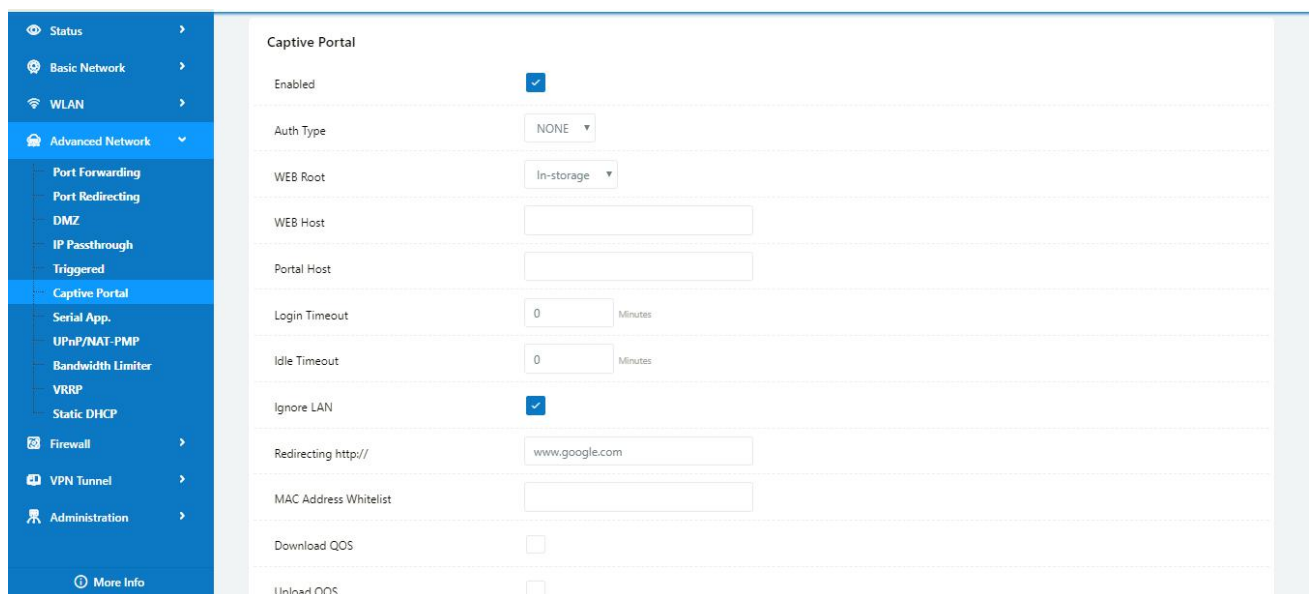
```

Finally, we can see the results by connect to router WIFI



2) Modify portal file storage path

Modify portal file storage for In-storage as below.



---End

3.6 GPS Settings

Please click “Advanced Network> GPS” to view or modify the relevant parameter.

You haven't changed the default password for this router. To change router password [click here](#).

- Status
- Basic Network
- WLAN
- Advanced Network
- Port Forwarding
- Port Redirecting
- DMZ
- IP Passthrough
- Triggered
- Captive Portal
- Serial App.
- GPS
- UPnP/NAT-PMP
- Bandwidth Limiter
- VRRP
- Static DHCP
- Firewall
- VPN Tunnel
- Administration
- More Info

GPS

GPS Mode: Client

Data Format: M2M_FMT

Server IP/Port: 192.168.1.2 : 40002

Heart-Beat Content:

Heart-Beat Interval: 5 (seconds)

Save ✓ Cancel ✕

Table 4-6 "GPS" Instruction

parameter	Instruction
GPS Mode	Enable/Disable
GPS Format	NMEA and M2M_FMT(WLINK)
Server IP/Port	GPS server IP and port
Heart-Beat	If choose M2M_FMT format, heart-beat ID will be packed into GPS data.
Interval	GPS data transmit as the interval time.

Step 1 Please click "save" to finis

Step 2 Connect the GPS antenna to router GPS interface

Step 3 Check GPS Status

You haven't changed the default password for this router. To change router password [click here](#).

- Status
- Overview
- Traffic Stats.
- GPS Status
- Device List
- Basic Network
- WLAN
- Advanced Network
- Firewall
- VPN Tunnel
- Administration
- More Info

GPS Status

Current	OK
System Type	GPS
Satellites Numbers	05
Satellites Clock	190404 - 022121.00
Positioning	2234.22520N - 11356.63170E
Google Map	View



M2M_FMT Format as below.

1. GPS data structure.

Router ID, gps_date, gps_time, gps_use, gps_latitude, gps_NS, gps_longitude, gps_EW, gps_speed, gps_degrees, gps_FS, gps_HDOP, gps_MSL

2. Example

0001_R081850ac,150904,043215.0,06,2234.248130,N,11356.626179,E,0.0,91.5,1,1.2,97.5

3. GPS data description

Field No.	Name	Format	Example	Description
1	Router ID	String	0001_R081850ac	0001 customizable product ID. _R router indicator. 081850ac Last 8digits of routers MAC address.
2	gps_date	yymmdd	150904	Date in year,month,day
3	gps_time	hhmmss.ss s	043215.0	UTC Time, Time of position fix.
4	gps_use	numeric	06	Satellites Used, Range 0 to 12.
5	gps_latitude	ddmm.mm mm	2234.248130	Latitude, Degrees + minutes.
6	gps_NS	character	N	N/S Indicator,N=north or S=south.
7	gps_longitude	ddmm.mm mm	11356.626179	Longitude, Degrees + minutes.
8	gps_EW	character	E	E/W indicator, E=east or W=west.
9	gps_speed	numeric	0.0	Speed over ground, units is km/h.
10	gps_degrees	numeric	91.5	Course over ground, unit is degree.
11	gps_FS	digit	1	Position Fix Status Indicator,
12	gps_HDOP	numeric	1.2	HDOP, Horizontal Dilution of Precision
13	gps_MSL	numeric	97.5	MSL Altitude, units is meter.

---End

3.7 Firewall

1) IP/MAC/Port Filtering

This part used to intercept packages from router's WAN/Celluar interface to Internet.

Test case:

1.1 Only allow three devices (MAC/LAN/WLAN) can access to Internet via WAN:

110.110.10.10

1.2 Only allow three devices (MAC/LAN/WLAN) can access to the router page (192.168.1.1)

The screenshot shows the 'IP/MAC/Port Filtering' configuration page. On the left is a blue sidebar with navigation options: Status, Basic Network, WLAN, Advanced Network, Firewall (selected), IP/URL Filtering, Domain Filtering, VPN Tunnel, and Administration. The main content area has a title 'IP/MAC/Port Filtering' and a table with columns: On, Src MAC, Src IP, Dst IP, Protocol, Src Port, Dst Port, Policy, and Description. The table contains five rows of rules, all with 'On' checked. The first row has 'Drop' policy. The others have 'Accept' policy. Below the table is a form to add a new rule with fields for On (checkbox), Src MAC, Src IP, Dst IP, Protocol (dropdown), Src Port, Dst Port, Policy (dropdown), and Description, followed by an 'Add +' button. Below this is a 'Key Word Filtering' section with a table for On, Key Word, and Description, and an 'Add +' button.

On	Src MAC	Src IP	Dst IP	Protocol	Src Port	Dst Port	Policy	Description
<input checked="" type="checkbox"/>	-	any/0	any/0	-	-	-	Drop	
<input checked="" type="checkbox"/>	-	any/0	192.168.1.0/24	-	-	-	Accept	
<input checked="" type="checkbox"/>	50:7B:9D:C3:9A:22	any/0	any/0	-	-	-	Accept	
<input checked="" type="checkbox"/>	60:F1:89:20:F0:9A	any/0	any/0	-	-	-	Accept	
<input checked="" type="checkbox"/>	00:1E:64:DF:E8:46	any/0	any/0	-	-	-	Accept	

Key Word Filtering

On	Key Word	Description
<input checked="" type="checkbox"/>		

2) Key Word Filtering

This part used to filter key word packages from router's WAN/Cellular interface to Internet.

The screenshot shows the 'URL Filtering' configuration page. The sidebar is the same as the previous screenshot. The main content area has a title 'URL Filtering' and a table with columns: On, URL, and Description. The table contains two rows of rules, both with 'On' checked. Below the table is a form to add a new rule with fields for On (checkbox), URL, and Description, followed by an 'Add +' button. Below this is an 'Access Filtering' section with a table with columns: On, Src MAC, Src IP, Dst IP, Protocol, Src Port, Dst Port, Policy, and Description. The table contains one row with 'On' checked. Below the table is a form to add a new rule with fields for On (checkbox), Src MAC, Src IP, Dst IP, Protocol (dropdown), Src Port, Dst Port, Policy (dropdown), and Description, followed by an 'Add +' button. At the bottom are 'Save' and 'Cancel' buttons.

On	URL	Description
<input checked="" type="checkbox"/>	youtube	
<input checked="" type="checkbox"/>	facebook	

Access Filtering

On	Src MAC	Src IP	Dst IP	Protocol	Src Port	Dst Port	Policy	Description
<input checked="" type="checkbox"/>				NOI			Acce	

3) URL Filtering

This part used to filter URL from router's WAN/Cellular interface to Internet.

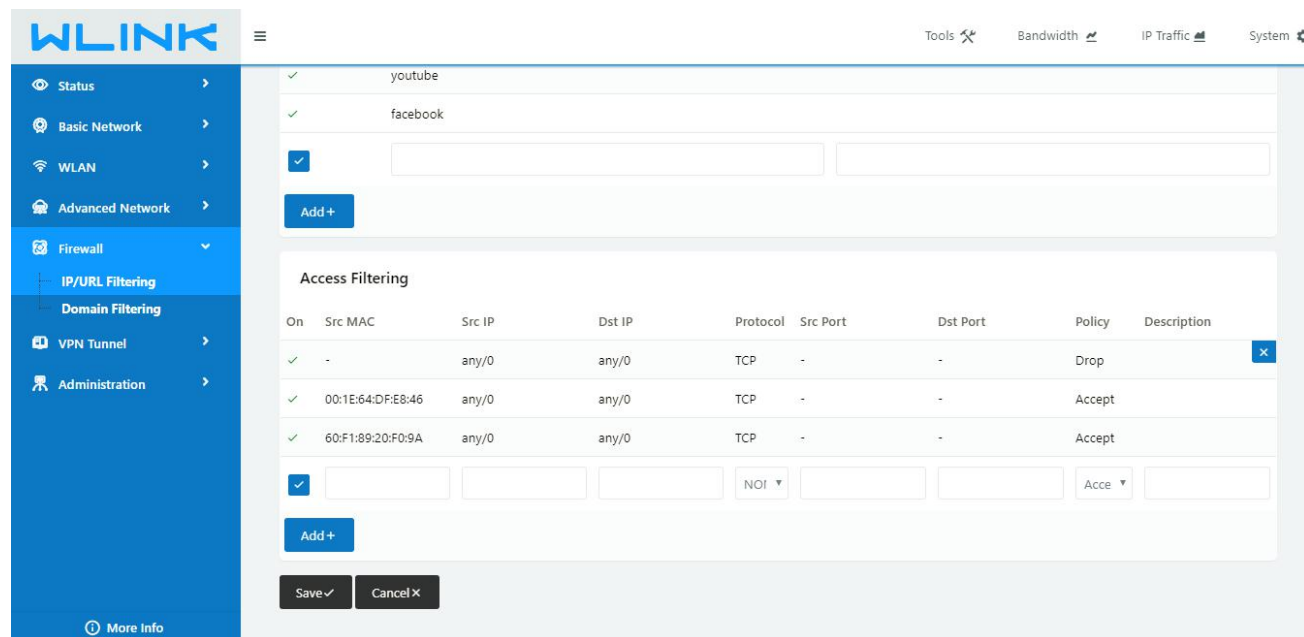
4) Access Filtering

This part used to filter packages from Internet to router's WAN/Celluar interface.

Test case:

4.1) Intercept all TCP packets accessing the router's WAN/Celluar(110.110.10.10).

4.2) Only two devices (MAC/LAN/WLAN) are allowed to be accessed from Internet packets.

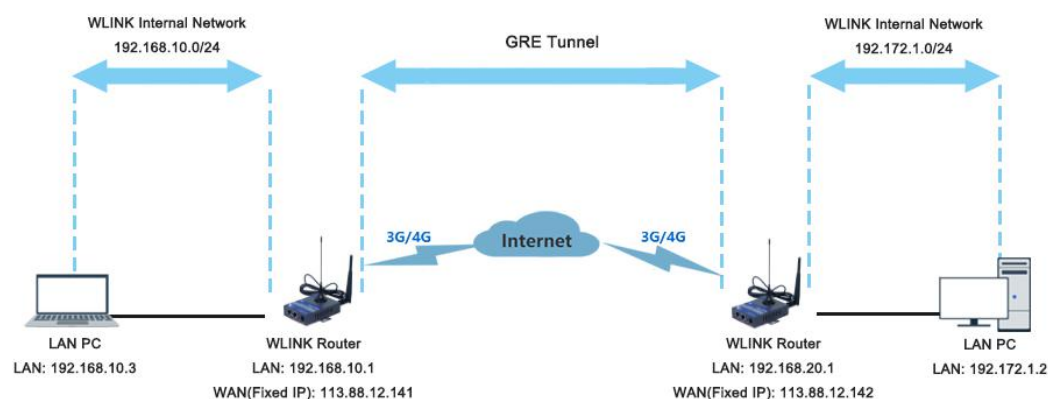


---End

3.8 VPN Tunnel

3.8.1 GRE

GRE Tunnel between WLINK Routers



1) WL-G520(A) Config

Navigate to **Basic Network > LAN**

You haven't changed the default password for this router. To change router password [click here](#).

- Status
- Basic Network
- WAN
- Cellular
- LAN**
- VLAN
- Schedule
- DDNS
- Routing
- WLAN
- Advanced Network
- Firewall
- VPN Tunnel
- Administration

More Info

LAN

Bridge	IP Address	Subnet Mask	DHCP Server	IP Pool	Lease(minutes)
br0	192.168.10.1	255.255.255.0	✓	192.168.10.2 - 51	1440

☐

Add +

Save ✓ Cancel ✕

Navigate to **VPN Tunnel > GRE**

- Status
- Basic Network
- WLAN
- Advanced Network
- Firewall
- VPN Tunnel
- GRE
- OpenVPN Client
- PPTP/L2TP Client
- IPSec
- Administration

More Info

GRE Tunnel

On	Idx	Tunnel Address	Tunnel Source	Tunnel Destination	Keepalive	Interval	Retries	Description
✓	1	192.168.10.10	113.113.11.11	113.111.10.10	✓	10	5	A

☒

☐

Add +

GRE Route

On	Tunnel Index	Destination Address	Description
✓	1	192.172.1.0/24	A

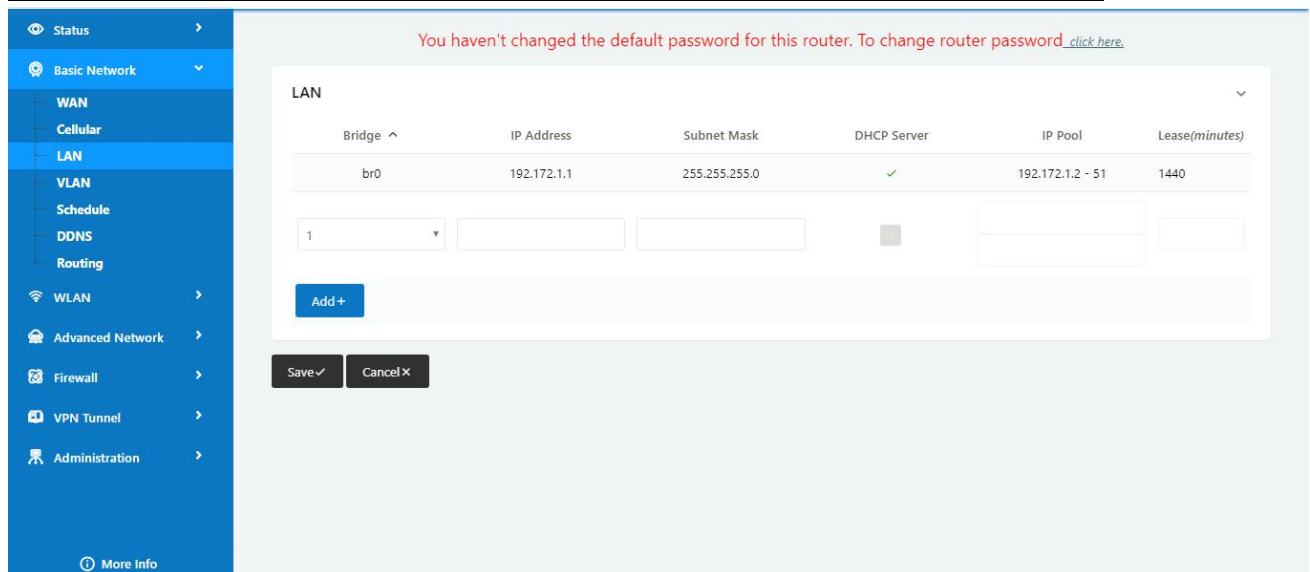
☒

Add +

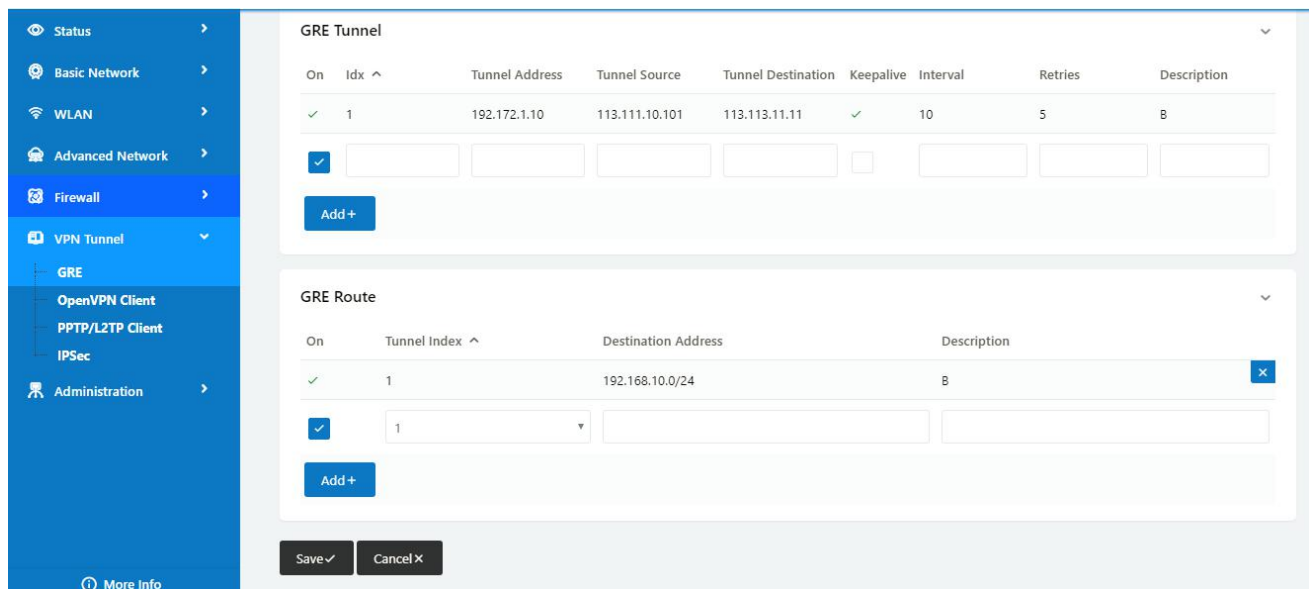
Save ✓ Cancel ✕

2) WL-G520(B) Config

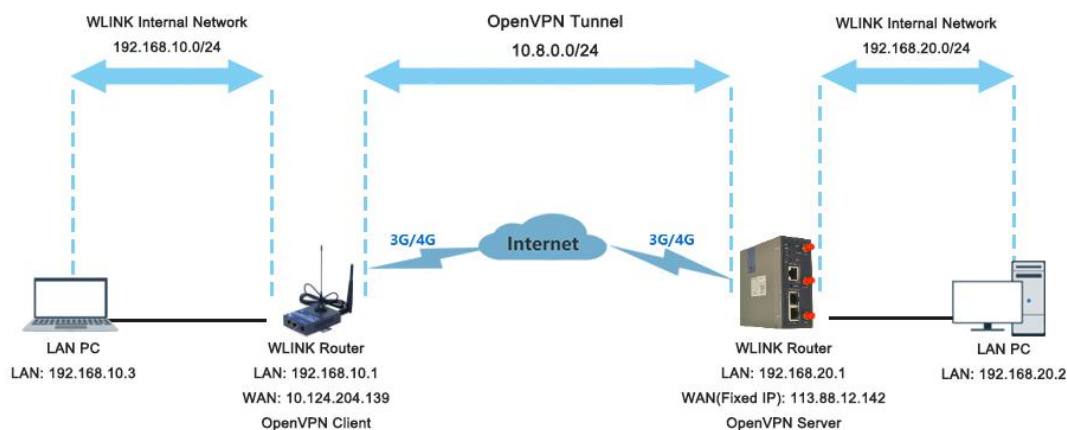
Navigate to **Basic Network > LAN**



Navigate to **VPN Tunnel > GRE**

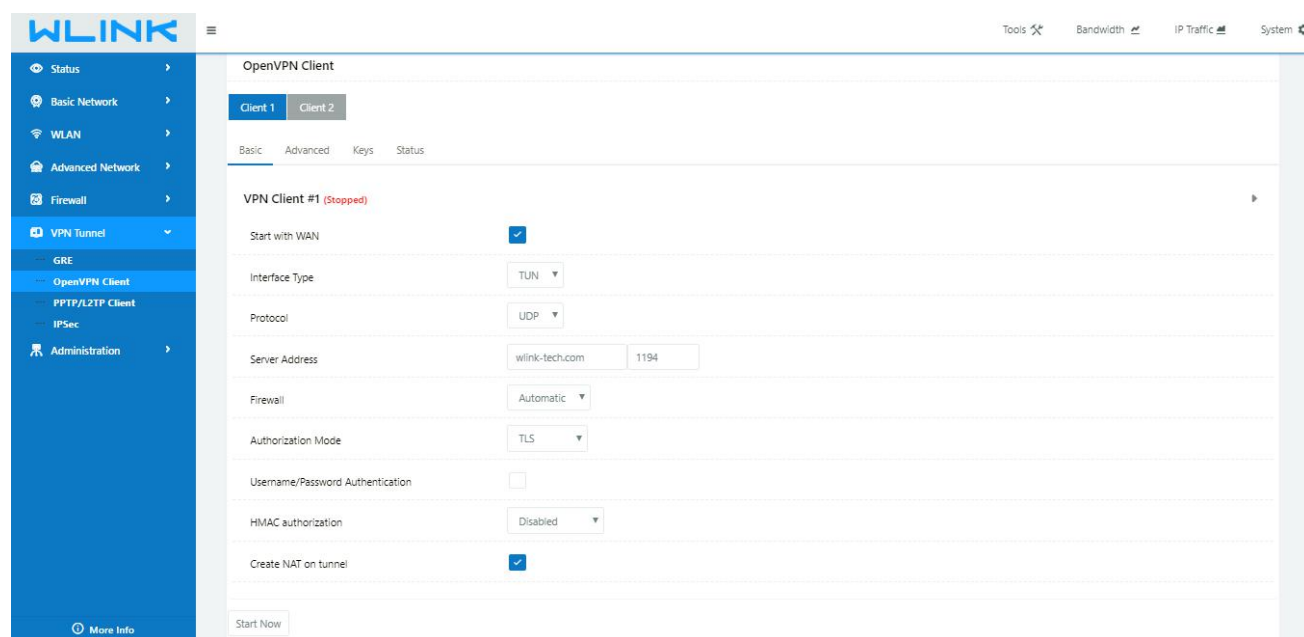


3.8.2 OpenVPN



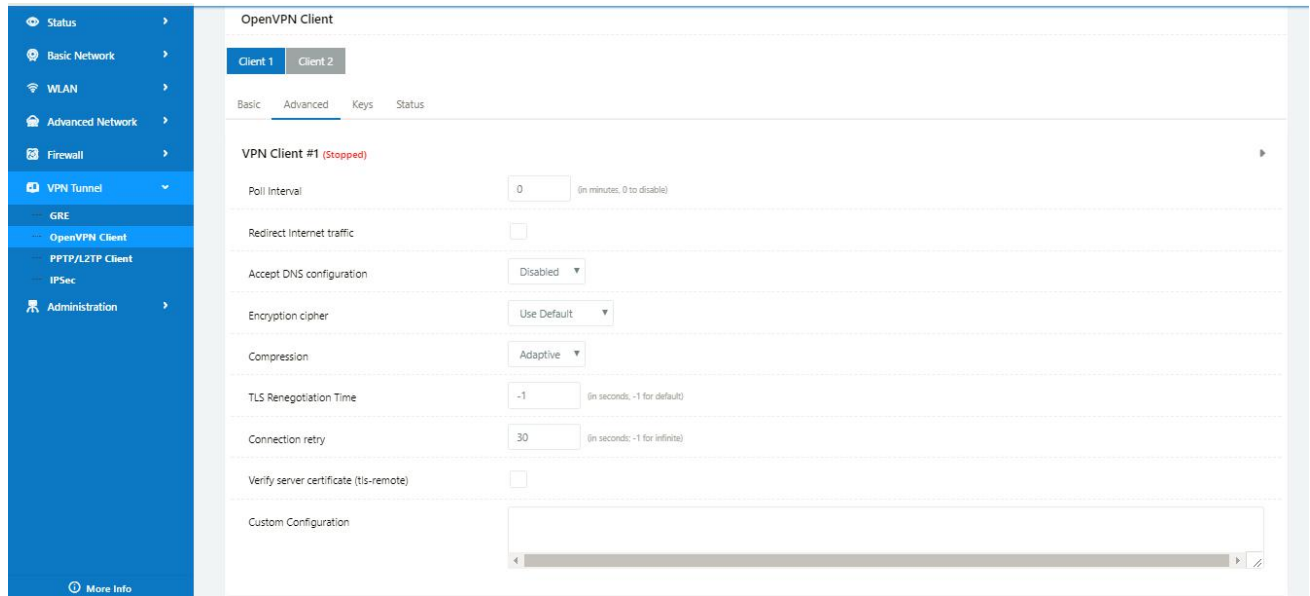
OpenVPN between WL-G520 client and Server

Please click “VPN Tunnel> OpenVPN Client” to check or modify the relevant parameter.



Parameter	Instruction
Start with WAN	Enable the Openvpn feature for 4G/3G/WAN port.
Interface Type	Tap and Tun type are optional. Tap is for bridge mode and Tunnel is for routing mode.
Protocol	UDP and TCP optional.
Server Address	The Openvpn server public IP address and port.
Firewall	Auto, External only and Custom are optional
Authorization Mode	TLS, Static key and Custom are optional.

User name/Password Authentication	As the configuration requested.
HMAC authorization	As the configuration requested.
Create NAT on tunnel	Configure NAT in Openvpn tunnel.



Parameter	Instruction
Poll Interval	Openvpn client check router's status as interval time.
Redirect Internet Traffic	Configure Openvpn as default routing.
Access DNS	As the configuration requested.
Encryption	As the configuration requested.
Compression	As the configuration requested.
TLS Renegotiation Time	TLS negotiation time. -1 as default for 60s.
Connection Retry Time	Openvpn retry to connection interval.
Verify server certificate	As the configuration requested.
Custom Configuration	As the configuration requested.

You haven't changed the default password for this router. To change router password [click here](#).

OpenVPN Client

Client 1 Client 2

Basic Advanced **Keys** Status

VPN Client #1 (Stopped)

For help generating keys, refer to the OpenVPN HOWTO.

Certificate Authority

Client Certificate

Client Key

Start Now

Save ✓ Cancel ✕

Parameter	Instruction
Certificate Authority	Keep certificate same as the server
Client Certificate	Keep client certificate same as the server
Client Key	Keep client key same as the server

You haven't changed the default password for this router. To change router password [click here](#).

OpenVPN Client

Client 1 Client 2

Basic Advanced Keys **Status**

VPN Client #1 (Stopped)

Client is not running or status could not be read.

Refresh Status

Start Now

Save ✓ Cancel ✕

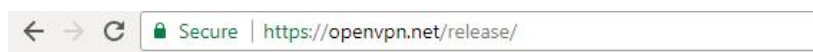
Parameter	Instruction
Status	Check OpenVPN status and data statistics.

Click “save” and “start now” to enable OpenVPN when you have done all the client config.

 OpenVPN Keys Guide

The following steps are for server running on Windows 7/8/10

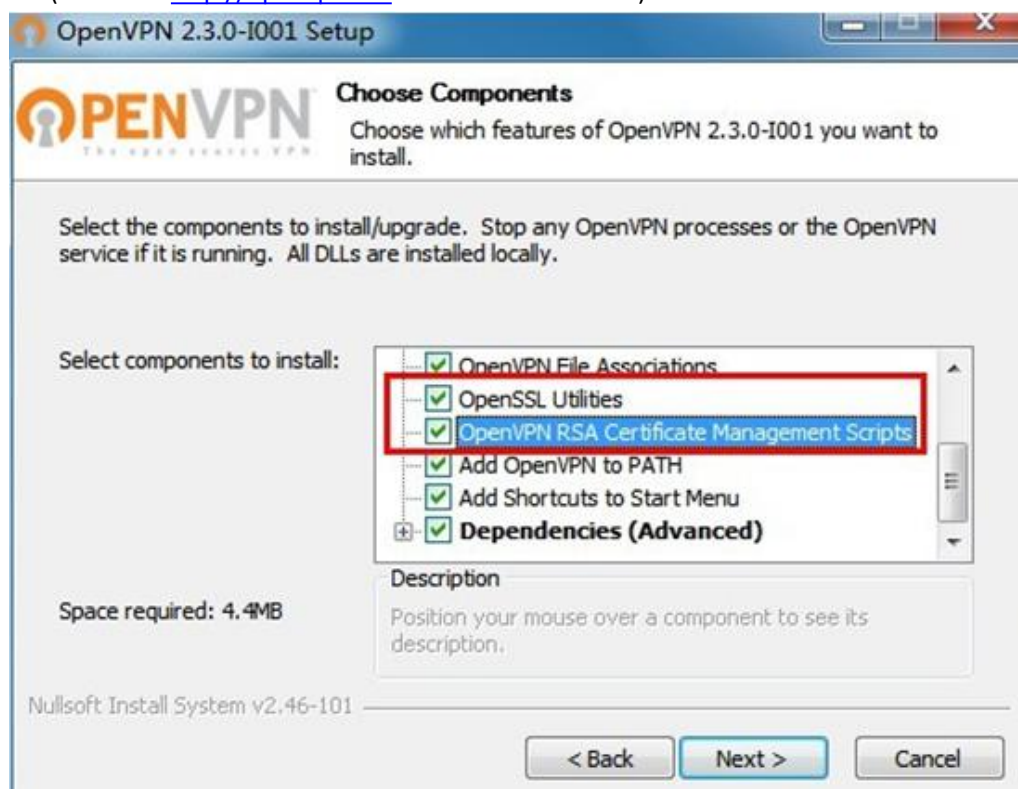
Access to (<http://openvpn.net/release/>) and download the file “openvpn-2.3.0-install.exe” (or higher)



Index of /release

Name	Last modified	Size	Description
Parent Directory	-	-	-
lzo-1.08-3.0.el2.dag.i386.rpm	21-Feb-2012 00:50	55K	
lzo-1.08-3.0.rh7.dag.i386.rpm	21-Feb-2012 00:50	54K	
lzo-1.08-3.0.rh8.dag.i386.rpm	21-Feb-2012 00:50	58K	
lzo-1.08-4.0.rh9.rf.i386.rpm	21-Feb-2012 00:50	59K	
lzo-1.08-4.1.el3.rf.i386.rpm	21-Feb-2012 00:50	58K	
lzo-1.08-4.1.el3.rf.x86_64.rpm	21-Feb-2012 00:50	55K	
lzo-1.08-4.1.fc1.rf.i386.rpm	21-Feb-2012 00:50	58K	

After installing OpenVPN, please find the OpenVPN folder to generate the certificate of server and client. (Access to <http://openvpn.net> for more information)



PC > Newdisk (D:) > OpenVPN >

Name	Date modified	Type	Size
bin	2019-01-10 11:42	File folder	
config	2019-01-10 14:10	File folder	
doc	2019-01-10 11:42	File folder	
easy-rsa	2019-01-10 11:54	File folder	
log	2019-01-10 14:10	File folder	
sample-config	2019-01-10 11:41	File folder	
icon.ico	2015-02-18 17:56	Icon	22 KB
Uninstall.exe	2019-01-10 11:42	Application	117 KB

Configure "vas.bat.sample" to complete the initialization step and keys

this PC > Newdisk (D:) > OpenVPN > easy-rsa >

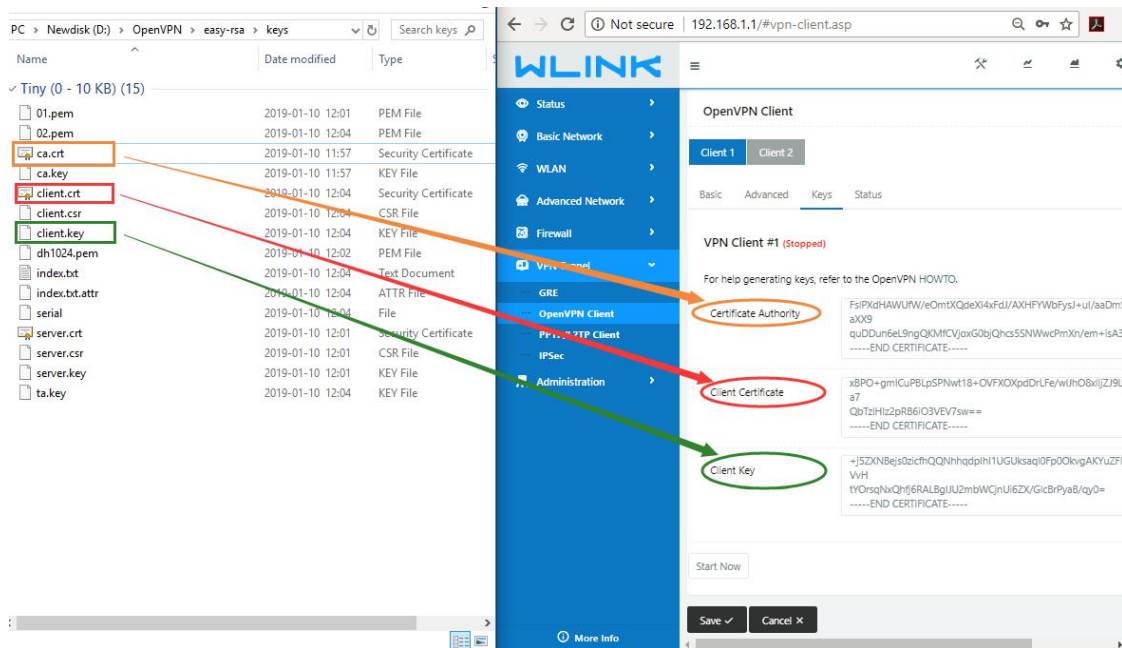
Name	Date modified	Type	Size
keys	2019-01-10 12:04	File folder	
.rnd	2019-01-10 12:04	RND File	1 KB
build-ca.bat	2016-01-04 20:41	Windows Batch File	1 KB
build-dh.bat	2016-01-04 20:41	Windows Batch File	1 KB
build-key.bat	2016-01-04 20:41	Windows Batch File	1 KB
build-key-pass.bat	2016-01-04 20:41	Windows Batch File	1 KB
build-key-pkcs12.bat	2016-01-04 20:41	Windows Batch File	1 KB
build-key-server.bat	2016-01-04 20:41	Windows Batch File	1 KB
clean-all.bat	2016-01-04 20:41	Windows Batch File	1 KB
index.txt.start	2016-01-04 20:41	START File	0 KB
init-config.bat	2016-01-04 20:41	Windows Batch File	1 KB
openssl-1.0.0.cnf	2016-01-04 20:41	CNF File	9 KB
README.txt	2016-01-04 20:41	Text Document	2 KB
revoke-full.bat	2016-01-04 20:41	Windows Batch File	1 KB
serial.start	2016-01-04 20:41	START File	1 KB
vars.bat	2019-01-10 11:43	Windows Batch File	1 KB
vars.bat.sample	2019-01-10 11:43	SAMPLE File	1 KB

Configure the client keys to WLINK OpenVPN client GUI when you create the server and client certificate in the path OpenVPN/easy-rsa/keys

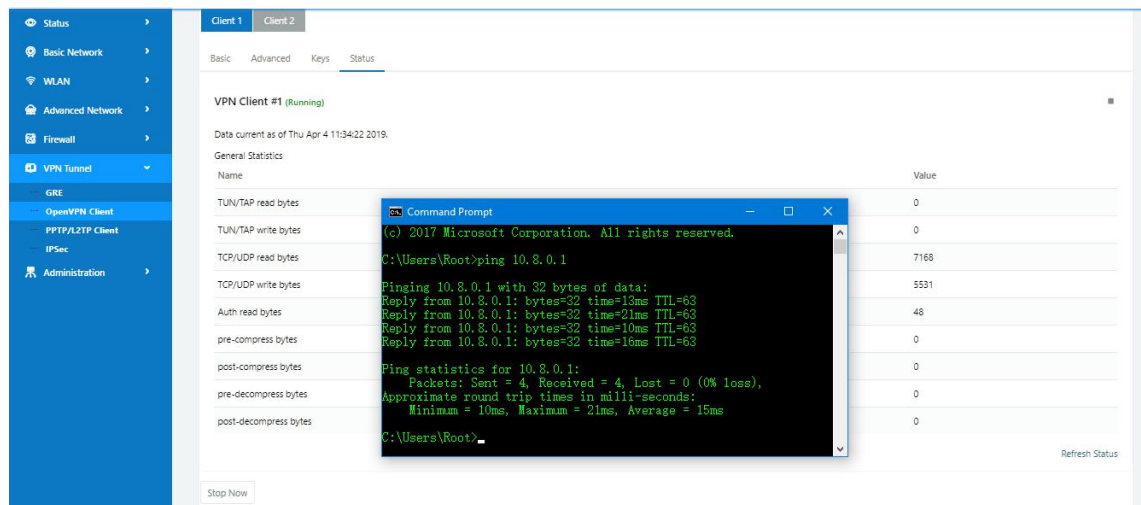
Client certificate (Generated on the server)

Name	Date modified	Type	Size
ca.crt	2019-01-10 11:57	Security Certificate	2 KB
client.crt	2019-01-10 12:04	Security Certificate	4 KB
client.key	2019-01-10 12:04	KEY File	1 KB
client.ovpn	2019-01-10 14:08	OpenVPN Config ...	4 KB
ta.key	2019-01-10 12:04	KEY File	1 KB

OpenVPN>easy-rsa>keys



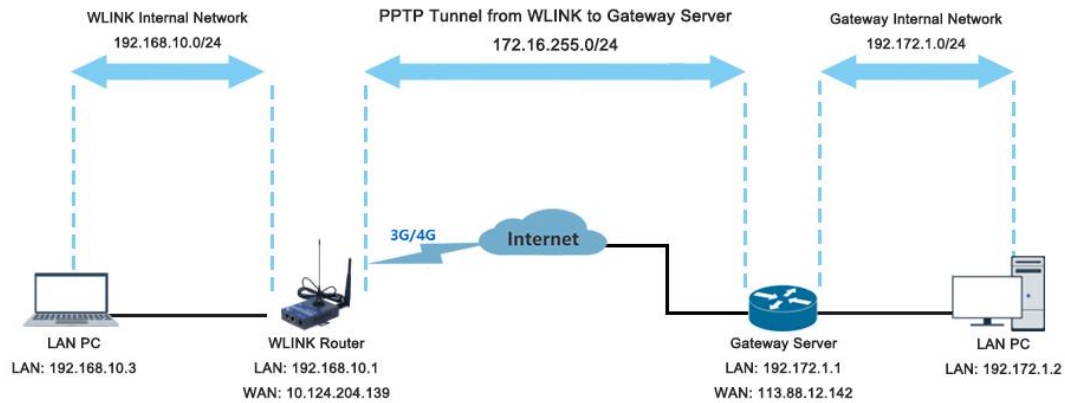
Ping test to your server when the tunnel is established



---End

3.8.3 L2TP/PPTP

Please click "VPN Tunnel>PPTP/L2TP Client" to view or modify the relevant parameter.



Configured as PPTP

- Status
- Basic Network
- WLAN
- Advanced Network
- Firewall
- VPN Tunnel
 - GRE
 - OpenVPN Client
 - PPTP/L2TP Client
 - IPSec
 - Administration

L2TP/PPTP Basic

On	Protocol	Name	Server	Username	Password	Firewall	Default Route	Local IP
<input checked="" type="checkbox"/>	PPTP	3	wlinktech.com.cn	test123	test123	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	L2TP					<input type="checkbox"/>	<input type="checkbox"/>	

Add +

L2TP Advanced

On	Name	Accept DNS	MTU	MRU	Tunnel Auth	Tunnel Password	Custom Options
<input checked="" type="checkbox"/>		NO			<input type="checkbox"/>		

Add +

PPTP Advanced

On	Name	Accept DNS	MTU	MRU	MPPE	MPPE Stateful	Custom Options
<input checked="" type="checkbox"/>	3	NO	1440	1440	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	debug/noip/default/require-mppe-128
<input checked="" type="checkbox"/>		NO			<input type="checkbox"/>	<input type="checkbox"/>	

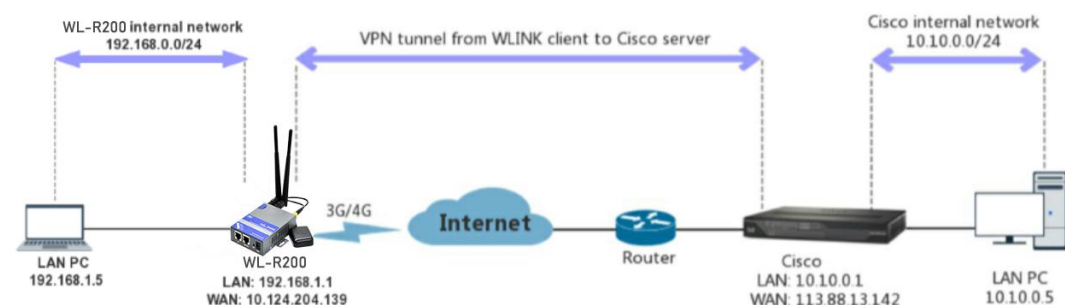
Add +

Note: The Custom Options are based on your server

---End

3.8.4 IPSec

IPSec between WL-G520 and Cisco Router



1) Cisco Config (main mode)

!

```
crypto isakmp policy 10
```

```
encr 3des
```

hash md5

authentication pre-share

group 2

crypto isakmp key test1234 address 0.0.0.0 0.0.0.0

!

!

crypto ipsec transform-set Tran-set esp-3des esp-sha-hmac

crypto ipsec nat-transparency spi-matching

!

2) WLINK Config

Navigate to **VPN Tunnel > IPSec > Group Setup**

Navigate to **VPN Tunnel > IPSec > Basic Setup**

Navigate to **VPN Tunnel > IPSec > Advanced Setup**

Status

Basic Network

WLAN

Advanced Network

Firewall

VPN Tunnel

GRE

OpenVPN Client

PPTP/L2TP Client

IPSec

Administration

More Info

IPSec

IPSec 1 | IPSec 2 | Schedule

Group Setup | Basic Setup | Advanced Setup

Aggressive Mode

Compress(IP Payload Compression)

Dead Peer Detection(DPD)

ICMP Check

Check Period Time Interval

Check Timeout Count

Check IP

IPSec Custom Options 1

IPSec Custom Options 2

IPSec Custom Options 3

IPSec Custom Options 4

Save

Cancel

Status

Overview

Traffic Stats.

GPS Status

Device List

Basic Network

WLAN

Advanced Network

Firewall

VPN Tunnel

Administration

More Info

VPN Status

Name

2

Protocol

L2TP

Connection Status

Disconnected

IP Address

0.0.0.0

Gateway

0.0.0.0

IPSec 1

Connected

Phase 1 Status

21 seconds

Phase 1 IKE

3DES_CBC/HMAC_MD5_96/PRF_HMAC_MD5/MODP_1024

Phase 2 Status

TUNNEL

Phase 2 ESP

3DES_CBC/HMAC_SHA1_96

IPSec Recv.

84 Bytes

IPSec Send.

84 Bytes

LAN

Router MAC Address

34:0A:94:01:51:01

Router IP Addresses

br0 (LAN) - 192.168.1.1/24

DHCP

br0 (LAN) - 192.168.1.2 - 192.168.1.51

Wireless Mode

Access Point

Wireless Network Mode

Auto

Interface Status

Up (LAN)

Radio

Enabled

SSID

router-wifi_015103_5G

Broadcast

Enabled

Security

disabled

Channel

149 - 5.745 GHz

Channel Width

80 MHz

Interference Level

Acceptable

Rate

433 Mbps

Wireless (2.4 GHz)

MAC Address

34:0A:94:01:51:03

Wireless Mode

Access Point

Wireless Network Mode

Auto

Interface Status

Up (LAN)

Radio

Enabled

SSID

router-wifi_015103

Broadcast

Enabled

Security

disabled

Channel

7 - 2.442 GHz

Channel Width

40 MHz

Interference Level

Acceptable

Rate

200 Mbps

---End