

3.3 Viewing APN List

To view the APN list, perform the following steps:

- 1. Choose Statistics;
- 2. In the **APN List**, view the information about APN information. As shown in Figure 3-3. APN List

Profile Name	Status	IP Address	Subnet Mask
APN1	Enable	172.16.15.156	255.255.255.0
APN2	Disable		
APN3	Disable		
APN4	Disable		
	CITIIN MIL		



3.4 Viewing Throughput Statistics

To view the Throughput Statistics, perform the following steps:

- 1. Choose Statistics;
- 2. In the **Throughput Statistics** area, view the throughput statistics, such as APN throughput and LAN throughput.
- 3. In this area, also you can choose and click the button **Reset** to empty the throughput statistics. As shown in Figure 3-4.

Throughput Statistics

Port	Received		Sent	
	Total Traffic	Packets	Total Traffic	Packets
LAN	491KB	2289	1.33 MB	2218
APN1	66KB	305	64KB	380
APN2	0 Bytes	0	0 Bytes	0
APN3	0 Bytes	0	0 Bytes	0
APN4	0 Bytes	0	0 Bytes	0

Figure 3-4

3.5 Viewing Device List

To view the device list, perform the following steps:

- 1. Choose Statistics;
- 2. In the **Device List** area, view the device information which connect to the CPE, such as Device name, Mac address, IP address and Lease time. As shown in Figure 3-5.

Device List

Index	Device Name	MAC Address	IP Address	Lease Time	Туре
1	UNKNOWN	00:0B:2F:16:7B:9F	192.168.0.74	0d0h00min	LAN.STATIC

Figure 3-5



4 Update

4.1 Version Manager

This function enables you to upgrade the software version of the CPE to a new version.

Viewing Version Info

To view the version info, perform the following steps:

- 1. Choose Update>Version Manager.
- 2. In the **Version Info** area, you can view the product name and software version. As shown in Figure 4-1.

Overview	Status	Update	Settings		
🛞 Version Mana	iger				
Auto Upgrade		V	ersion Manager		
			Tip: It is forbidden to power off du	ring the upgrade process.	
			Version Information		
			Product Model	SRP410-a	
			Running software version	SG626_V1.0.0	
			Local Upgrade		
			Version File Choose File	No file chosen	
			Upgrade		

Figure 4-1

Version Upgrade

To perform an upgrade successfully, connect the CPE to your computer through a network cable, save the upgrade file on the computer, and make sure the CPE is not connected to anything other than a power adapter and the computer.

To perform an upgrade, perform the following steps:

- 1. Choose Update>Version Manager.
- 2. In the **Version Upgrade** area, click **Browser**. In the displayed dialog box, select the target software version file.
- 3. Click **Open**. The dialog box choses. The save path and name of the target software version



file are displayed in the Update file field.

- 4. Click Submit.
- 5. The software upgrade starts. After the upgrade, the CPE automatically restarts and runs the new software version. As shown in Figure 4-2.
 - During an upgrade, do not power off the CPE or disconnect it from the computer.

Version File	Choose File	No file chosen
Upgrade	1	

4.2 Auto upgrade

To perform a ftp auto upgrade successfully, make sure the CPE is connected to the Internet.

To perform a ftp auto upgrade, perform the following steps:

- 1. Choose Update>Auto upgrade.
- 2. Enable auto upgrade.
- 3. If you want to check new firmware after connect to Internet, you need to enable the item of **Check new firmware after connect to Internet**.
- 4. Set the ftp server address to the **Upgrade folder** box.
- 5. Set Version file. //This contain the new FW name
- 6. Set User name and Password.
- 7. Set the Interval of checking new firmware. //Check upgrade periodic
- 8. Set Start time. // The time of upgrade begin
- 9. Set **Random time**. // Out of this time, UE will not upgrade.
- 10. Click **Submit**. As shown in Figure 4-3.

1, The CPE will automatically upgrade according to the setting. During an upgrade, do not disconnect the power supply or operate the CPE.

2, If set interval of checking new FW, the start time and random time will shouldn't be set.



Auto Ungrado			
Auto Upgrade	Auto Upgrade		
	Settings		
	Auto Upgrade	Enable	
	Check New FW after conne	ected 🔲 Enable	
	Upgrade Folder	ftp ▼ ://	*
	Version File	version.txt *	
	Username	admin *	
	Password	····· ~ *	
	Check New FW Every	24	
	Start Time(24hrs)	0	
	Random Time	3	
	Figure 4-3		
	100		



5 Settings

5.1 Viewing the Device Information

To view the System Information, perform the following steps:

- 1. Choose Settings;
- 2. In the **System Information** area, view the system status, such as Running time. As shown in Figure 5-1.



- 1. Choose Settings;
- In the Device Information area, view the device information, such as Product name, Product Model, Hardware Version, Software version, UBoot version and CPE SN . As shown in Figure 5-2.

Device Information

System Information

Running Time 00d 00h 16min

Version Information

Product Model	SRP410-a
Hardware Version	SGL6010_V1.0
Software Version	SG626_V1.0.0
UBOOT Version	V1.0.2
Serial Number	RP410201200000004
IMEI	862165040656108
IMSI	460680058800030

Figure 5-5

Viewing LAN Status



To view the LAN status, perform the following steps:

- 1. Choose Settings;
- 2. In the LAN Status area, view the LAN status, such as Mac address, IP address and Subnet mask. As shown in Figure 5-4.

LAN Status

MAC Address

A8:93:52:0A:12:90

192.168.0.1

255.255.255.0

IP Address

Subnet Mask

Figure 5-3

5.2 Viewing Network

5.2.1 Network Mode

- 1. To set the network mode, perform the following steps:
- 2. Choose Network >WAN Settings;
- 3. In the Network Mode area, select a mode between NAT and ROUTER and Bridge
- 4. Click Submit. As shown in Figure 5-5.

WAN Settings



Figure 5-4

5.2.2 LTE Settings

To set the LTE network, perform the following steps:

- 1. Choose Network >LTE Settings;
- 2. In the Settings area, you can set the configuration of LTE network;
- 3. In the **Status** area, you can view the LTE network connect status, such as Frequency, RSSI, RSRP, RSRQ, CINR, SINR, Cell ID and so on. As shown in Figure 5-5.



Network			
	LTE Settings		
WAN Settings			
LTE Settings	Settings		
Scan Mode	04-4	Orrested	
APN Management	Status	Connected	
IN Management	Connect Method	Auto	•
Dual SIM			
SIM Lock			
LAN Settings			
DMZ Settings	Status		
Static Route	DL MCS	25	
Ethernet	UL MCS	0	
/i-Fi	DL Frequency	3560.0 MHz	
Firewall		3560 0 MHz	
VPN	OETTequency	3300.0 Wi 12	
Die	Bandwidth	20 MHz	
rv0	RSSI	-72 dBm	
System	RSRP0	-98 dBm	
	RSRP1	-127 dBm	
	RSRO	-5 dB	

Figure 5-5

Connect Method Setting

To set the connect method, perform the following steps:

- 1. Choose Network > LTE Settings;
- 2. In the **Setting** area, select a connect method between **Auto** and **Manual**. As shown in Figure 5-6.

LTE	Settings		
	Settings		
	Status	Connected	
	Connect Method	Auto 🔻	



Auto Connect LTE Network

To set the CPE automatically connect to the internet, perform the following steps:

- 1. Choose Network > LTE Settings;
- 2. In the **Setting** area, set the connect method as **Auto**. When the LTE network is ready, the CPE will be connected automaticity. As shown in Figure 5-7.



LTE Settings

Settings		
Status	Connected	
Connect Method	Auto	×
Status		
DL MCS	28	
UL MCS	2	
DL Frequency	3560.0 MHz	
UL Frequency	3560.0 MHz	
Bandwidth	20 MHz	
RSSI	-71 dBm	
RSRP0	-97 dBm	
RSRP1	-128 dBm	
RSRQ	-5 dB	

Figure 5-7

Manual Connect Mobile Network

To set the mobile network manual connect to the internet, perform the following steps:

- 1. Choose **Network > LTE Settings**;
- 2. In the **Setting** area, set the connect method as **Manual**, when the LTE network is ready, you can set the CPE connect to the LTE network or disconnect from the LTE network. As shown in Figure 5-8.



LTE Settings

Settings		
Status	Connected	
Connect Method	Auto	T
Status		
DL MCS	28	
UL MCS	2	
DL Frequency	3560.0 MHz	
UL Frequency	3560.0 MHz	
Bandwidth	20 MHz	
RSSI	-71 dBm	
RSRP0	-97 dBm	
RSRP1	-128 dBm	
RSRQ	-5 dB	
]	Figure 5-8	

5.2.3 Scan Mode

This function is used to config UE mode of scan network. The default scan mode is fullband. To set the LTE network scan mode, perform the following steps:

- 1. choose Network>Scan mode;
- 2. If select **Bandlock**, UE will only connect to the checked bands. Others will not be scanned.
- 3. Click Submit.



	Scan Mode	Band Lock •	
	Band Lock		
	Band Select	Band 2	
		Band 4	
		Band 5	
		Band 12	
		Band 13	
		Band 14	
		Band 17	
Z		Band 25	
S		Band 26	
~		Band 38	
Z		Band 30	
ZZ		Band 41	
220		Band 42	
		Band 43	
		Band 48	
		Band 53	
		Band 66	
		Figure 5-9	

Setting Frequency (Earfcn)

To set the frequency, perform the following steps:

- 1 Choose Network>Scan Mode.
- 2 In the **Scan Mode** area, choose **EARFCN Lock**.
- 3 In the **EARFCN Lock** area, you can set an **EARFCN**, then click **Add** to add it to the EARFCN lock list.

4 Click Submit. As shown in Figure 5-10.

Settings				
Scan Mode	EARFCN Lock	T		
EARFCN Lock				
EARFCN	44500	* Add		
EARFCN Lock List	(Max Limit :5)			
Index		EARFCN	Operation	
1		44500	Delete	
				Submit Cancel

Figure 5-10

Setting PCI LOCK

To set the pci lock perform the following steps:

- 1. Choose Network>Scan Mode.
- 2. In the Scan Mode area, choose PCI Lock.



- 3. In the **PCI Lock** area, you can set **EARFCN** and **PCI** of the cell, then click **Add** to add it to the PCI lock list.
- 4. Click **Submit**. As shown in Figure 5-11.

Settings				
Scan Mode	PCI Lock •			
PCI Lock				
EARFCN	*			
PCI	* Add			
PCI Lock List (Max I	Limit :5)			
Index	EARFCN	PCI	Operation	
1	43190	43	Delete	
			Submit C	ancel
		Figure 5-11		

5.2.4 APN Management

To set and manage APN, perform the following steps:

- 1. Choose Network>APN Management.
- 2. In the APN Management area, you can set the APN.
- 3. Choose an APN number which you want to set, there are 4 APNs selected.
- 4. In the **APN Setting** area you can set the APN parameters, such as enable or disable the APN, APN name, profile name.
- 5. Set the authentication type (chap or pap or none) and the username, password of it.
- 6. Set the PDN type: IPv4 or IPv6 or IPv4/v6 dual stack.
- 7. Click **Submit.** As shown in Figure 5-12.

If you want set an APN as **default gateway**, you should check that is enabled. And we can also set the APN apply to SNMP or TR069.

Overview Status U	pdate Settings		
Device Information			
	APN Management		
WAN Settings			
LTE Settings	APN Selection		
Scan Mode	APN Number	4.4	-
APN Management	AFNINUMBER	# 1	
PIN Management	APN Settings		
Dual SIM	Epoble	Epoble	
SIM Lock	Enable	Enable	
LAN Settings	Profile Name	APN1	*
DMZ Settings	APN Name	APN1	
Static Route	, a tritano		
Ethernet	Authentication Type	NONE	•
∕≑Wi-Fi	PDN Type	IPv4	•
💭 Firewall			
K VPN	Default Gateway	Enable	
@IPv6	Apply To	TR069	
System		SNMP	

Figure 5-12



5.2.5 PIN Management

To manage the PIN, you can perform the following operations on the PIN Management page:

- Enable or disable the PIN verification.
- Verify the PIN.
- Change the PIN.
- Set automatic verification of the PIN. As shown in Figure 5-13

Device Information -Network WAN Settings LTE Settings Scan Mode APN Management PIN Management Dual SIM SiM Lock LAN Settings Dual SIM SiM Lock Dual SIM SiM Lock Dial SIM SiM Lock PIN Management PIN Management PIN Management Dual SIM SiM Lock LAN Settings Distings Static Route PIN Verification Image: Enable PIN	Overview Status	Jpdate Settings	
Network PIN Management WAN Settings ITE Settings Scan Mode The PIN lock of the USIM card protects the router against unauthorized accesses to the Internet. You can activate, modify, or deactivate the PIN. APN Management Note: The router cannot provide Internet services when the USIM card is not inserted or the PIN verification failed. PIN Management Note: The router cannot provide Internet services when the USIM card is not inserted or the PIN verification failed. PIN Management USIM Card Status USIM Normal Dual SIM USIM Card Status USIM Normal DMZ Settings DIN Verification Enable Disable PIN Verification PIN Werification Enable Disable	Device Information		
WAN Settings LTE Settings Scan Mode APN Management PIN Management Dual SIM SIM Lock LAN Settings DIM Settings DMZ Settings Static Route PIN PIN Verification PIN Verification PIN Verification PIN Verification PIN Verification PIN Verification	Network	PIN Management	
LTE Settings The PIN lock of the USIM card protects the router against unauthorized accesses to the Internet. You can activate, modify, or deactivate the PIN. APN Management Note: The router cannot provide Internet services when the USIM card is not inserted or the PIN verification failed. PIN Management PIN Management Dual SIM PIN Management LAN Settings USIM Card Status DMZ Settings USIM Card Status Static Route PIN PIN PIN Verification	WAN Settings		
Scan Mode The PIN lock of the USIM card protects the router against unauthorized accesses to the Internet. You can activate the PIN. APN Management Note: The router cannot provide Internet services when the USIM card is not inserted or the PIN verification failed. PIN Management PIN Management Dual SIM PIN Management LAN Settings USIM Card Status DMZ Settings VISIM Card Status Static Route PIN Verification PIN PIN Verification	LTE Settings		
APN Management Note: The router cannot provide Internet services when the USIM card is not inserted or the PIN verification failed. PIN Management Dual SIM Dual SIM PIN Management LAN Settings USIM Card Status DMZ Settings USIM Card Status Static Route PIN Verification	Scan Mode	The PIN lock of the USIM card protects the router against unauthorized accesses to the Internet. You can activate, modify, or deactivate the PIN.	
PIN Management Dual SIM SIM Lock LAN Settings DMZ Settings Static Route PIN Verification Enable Disable	APN Management	Note: The router cannot provide Internet services when the USIM card is not inserted or the PIN verification failed.	
Dual SIM PIN Management SIM Lock USIM Card Status DMZ Settings USIM Card Status Static Route PIN Verification Tethernet PIN	PIN Management		
SIM Lock PIN Management LAN Settings USIM Card Status DMZ Settings USIM Card Status Static Route PIN Verification Tethernet PIN	Dual SIM		
LAN Settings USIM Card Status USIM Normal DMZ Settings PIN Verification Enable Disable Fithernet PIN PIN PIN PIN PIN PIN 	SIM Lock	PIN Management	
DMZ Settings DSIM Carlo Status DSIM Normal Static Route PIN Verification Enable Disable PIN ************************************	LAN Settings	LICIM Card Clotus LICIM Normal	
Static Route PIN Verification Enable Disable "Ithernet" PIN	DMZ Settings	USIM Card Status USIM Normai	
"JEthernet PIN · ·	Static Route	PIN Verification	
	Ethernet	PIN 🗸 🖌	
≥Wi-Fi	≈Wi-Fi		
Firewall	Firewall	Remaining Attempts 3	
VPN Submit Cancel	VPN	Submit Cancel	

Figure 5-13

Viewing the Status of the USIM Card

To view the status of the USIM card, perform the following steps:

- 1 Choose Network >PIN Management.
- 2 View the status of the USIM card in the USIM card status field.

Enabling PIN Verification

To enable PIN verification, perform the following steps:

- 1 Choose Network >PIN Management.
- 2 Set PIN verification to Enable.
- 3 Enter the PIN (4 to 8 digits) in the Enter PIN box.
- 4 Click Submit.

Disabling PIN Verification

To disable PIN verification, perform the following steps:

- 1 Choose Network >PIN Management.
- 2 Set PIN verification to Disable.
- 3 Enter the PIN (4 to 8 digits) in the Enter PIN box.
- 4 Click Submit.

Verifying the PIN

If PIN verification is enabled but the PIN is not verified, the verification is required. To verify the PIN, perform the following steps:

1 Choose Network >PIN Management.



- 2 Enter the PIN (4 to 8 digits) in the **PIN** box.
- 3 Click Submit.

Changing the PIN

The PIN can be changed only when PIN verification is enabled and the PIN is verified. To change the PIN, perform the following steps:

- 1 Choose Network>PIN Management.
- 2 Set PIN verification to Enable.
- 3 Set Change PIN to Enable.
- 4 Enter the current PIN (4 to 8 digits) in the PIN box.
- 5 Enter a new PIN (4 to 8 digits) in the New PIN box.
- 6 Repeat the new PIN in the Confirm PIN box.
- 7 Click Submit.

Setting Automatic Verification of the PIN

You can enable or disable automatic verification of the PIN. If automatic verification is enabled, the CPE automatically verifies the PIN after restarting. This function can be enabled only when PIN verification is enabled and the PIN is verified.

- 1 To enable automatic verification of the PIN, perform the following steps:
- 2 Choose Network > PIN Management.
- 3 Set Pin verification to Enable.
- 4 Set Remember my PIN to Enable.
- 5 Click Submit.

Verifying the PUK

If PIN verification is enabled and the PIN fails to be verified for three consecutive times, the PIN will be locked. In this case, you need to verify the PUK and change the PIN to unlock it.

To verify the PUK, perform the following steps:

- 1. Choose Network> PIN Management.
- 2. Enter the PUK in the **PUK** box.
- 3. Enter a new PIN in the New **PIN** box.
- 4. Repeat the new PIN in the **Confirm PIN** box.

Click Submit.

5.2.6 Dual SIM

If you have insert two SIM card in device, and want to exchange them. Please click here to switch them. As shown in Figure 5-14



Overview Status	Update	Settings			
Device Information					
Antwork	Du	al SIM			
WAN Settings	_				
LTE Settings		Settings			
Scan Mode		DuelOIM			
APN Management		Dual SIM	1	SIM1 SIM1	•
PIN Management			5	SIM2	
	////	Figure 5	-14		

5.2.7 SIM Lock

If you want to connect a specify network, and the CPE can't connect other network, you can set a SIM lock.

To set the SIM lock, perform the following steps:

- 1. Choose Network>SIM Lock.
- 2. Input the PLMN you want to lock in the PLMN box.
- 3. Click add to add the PLMN in the lock list.
- 4. Click Submit. As shown in Figure 5-15.

Overview Status	Update Settings			
Device Information				
Antwork	SIM Lock			
WAN Settings				
LTE Settings				
Scan Mode	To put the new configuration i	into effect, must click Submit button after Add List		
APN Management				
PIN Management	Cottingo			
Dual SIM	Settings			
SIM Lock	PLMN		Add	
LAN Settings	Barriel Sectors 5. 4			
DMZ Settings	PLMN List (Max L	imit :5)		
Static Route	Index	DI MN	Operation	
Ethernet	muex	PLMIN	Operation	
∕≑Wi-Fi				1997
Firewall			Submit Car	ncel



5.2.8 LAN Setting

Setting LAN Host Parameters

By default, the IP address is 192.168.0.1 with a subnet mask of 255.255.255.0. You can change the host IP address to another individual IP address that is easy to remember. Make sure that IP address is unique on your network. If you change the IP address of the CPE, you need to access the web management page with the new IP address.

To change the IP address of the CPE, perform the following steps:

- 1. Choose Network>LAN Settings.
- 2. In the LAN Host Settings area, set IP address and subnet mask.



- 3. In the **DHCP Setting** area, set the DHCP server to **Enable**.
- 4. Click **Submit**. As shown in Figure 5-16.

Device Information			
🚠 Network	LAN Settings		
WAN Settings			
LTE Settings	LAN Host Settings		
Scan Mode	ID Address	100 100 0 1	346
APN Management	IF Address	192.168.0.1	101
PIN Management	Subnet Mask	255.255.255.0	*
Dual SIM	DUOD O W		
SIM Lock	DHCP Settings		
LAN Settings	DHCP Server	Enable	
	Figure 5-16		

Configuration the DHCP Server

DHCP enables individual clients to automatically obtain TCP/IP configuration when the server powers on. You can configure the CPE as a DHCP server or disable it. When configured as a DHCP server, the CPE automatically provides the TCP/IP configuration for the LAN clients that support DHCP client capabilities. If DHCP server services are disabled, you must have another DHCP server on your LAN, or each client must be manually configured.

To configure DHCP settings, perform the following steps:

- 1. Choose Network Setting > LAN Settings.
- 2. Set the DHCP server to Enable.
- 3. Set Start IP address.

This IP address must be different from the IP address set on the LAN Host Settings area, but they must be on the same network segment.

4. Set End IP address.

This IP address must be different from the IP address set on the LAN Host Settings area, but they must be on the same network segment.

5. Set Lease time.

Lease time can be set to 1 to 10,080 minutes. It is recommended to retain the default value.

6. Click **Submit**. As shown in Figure 5-17.



Device Information					
T. Network	LAN Settings				
WAN Settings	Lotit Gettings				
LTE Settings	LAN Host Settings				
Scan Mode		100000000			
APN Management	IP Address	192.168 0.1			
PIN Management	Subnet Mask	255 255 255 0	•		
Dual SIM	D1100 0.10				
SIM Lock	DHCP Settings				
LAN Settings	DHCP Server	Enable			
DMZ Settings	Start IP Aridress	102 100 0 10			
Static Route		192.100.0.10			
["] Ethernet	End IP Address	192.168.0.100	·		
© WI-FI	Lease Time	720			
💭 Firewall		1.000			
				Submit C	ancel
	SHIM	HITHDA			
		Figure 5-17			

5.2.9 DMZ Settings

If the demilitarized zone (DMZ) is enabled, the packets sent from the WAN are directly sent to a specified IP address on the LAN before being discarded by the firewall.

To set DMZ, perform the following steps:

- 1. Choose Network > DMZ Settings.
- 2. Set DMZ to Enable.
- 3. (Optional) Set ICMP Redirect to Enable.
- 4. Set Host address.

i Device Information

••••

This IP address must be different from the IP address set on the LAN Host Settings page, but they must be on the same network segment.

5. Click **Submit**. As shown in Figure 5-18.

🔜 Network	DMZ Settings		
WAN Settings			
LTE Settings	DMZ		
Scan Mode	0147	G. Fachio	
APN Management	DM2	Enable.	
PIN Management	ICMP Redirect	Enable	
Dual SIM	Host Address	100 100 0 10	
SIM Lock	1103174401000	102.100.0.14	
LAN Settings			Colority Connect
DMZ Settinos			Submit Cancel



5.2.10 Static Route

Add Static Route

To add a static route, perform the following steps:

- 1. Choose Network Setting>Static Route.
- 2. Click Add list.
- 3. Set the Dest IP address and Subnet mask.
- 4. Select an Interface from the drop-down list.
- 5. If you select LAN as the interface, you need set a Gateway.



6. Click **Submit.** As shown in Figure 5-19.

Device Information							
LNetwork	Static Route						
WAN Settings							
LTE Settings	Static Route	e List (Max L	imit :10)				
Scan Mode							Add List
APN Management							AND LINE
PIN Management	Index	Destination	IP Subnet Mask	Interface	Gateway	Status	Operation
Dual SIM							
SIM Lock	Static Rout	e Settings					
LAN Settings	Orano redui	c ootninga					
DMZ Settings	Destination IP		202.100.14.202	*			
Static Route	Subnet Mask		255 255 255 255				
Ethernet				215- 215-			
\$₩I-FI	Interface		LAN	7			
💭 Firewall	Gateway		192.168.01				
S VPN							
∯lPv6						Sut	omit Cancel
	1111	Fig	ure 5-19				

Modify Static Route

To modify an access restriction rule, perform the following steps:

- 1. Choose Firewall>Static Route.
- 2. Choose the item to be modified, and click Edit.
- 3. Repeat steps 3 through 5 in the previous procedure.
- 4. Click Submit. As shown in Figure 5-20.

Device Information	-						
Network	Static Route						
WAN Settings							
LTE Settings	Static Rou	te List (Max Lim	it :10)				
Scan Mode							Add Lint
APN Management							MUU LINE
PIN Management	Index	Destination IP	Subnet Mask	Interface	Gateway	Status	Operation
Dual SIM							
SIM Lock	Static Rou	te Settings					
LAN Settings	Citado riou	ic ootunga					
DMZ Settings	Destination IF	202	100.14.202	. *			
Static Route	Subnet Mask	255	255 255 255				
]]Ethernet				2014 2014			
₽WI-Fi	Interface	LA	N				
Firewall	Gateway	192	168.01				
VPN							
}iPv6						Su	bmit Cancel



Delete Static Route

To delete a static route, perform the following steps:

- 1. Choose Firewall>Static Route.
- 2. Choose the item to be deleted, and click **Delete**.

5.3 Wi-Fi

For SRP serial, SRP210 don't support WIFI. SRP410-a and SRP410-b support 2.4G&5G dual band WIFI.



5.3.1 WLAN Status

To view the WLAN status, perform the following steps:

- 1. Choose Wi-Fi;
- 2. In the **WLAN Status** area, view the information about Wi-Fi status, 2.4G, 5G and Device list. As shown in Figure 5-22.

Device Information					
Network	WLAN Status				
Ethernet					
Wi-Fi	2.4GHz				
WLAN Status	WLAN	Enable			
WLAN Settings	Mada	200 44h/s/s			
WPS	Mode	802.11b/g/n			
Access Management	Channel	1			
Guest Network	5GHz				
Professional					
Firewall	WLAN	Enable			
VPN	Mode	802.11n/ac			
IPv6	Channel	36			
System	Device Lis	t			
	Index	Device Name MAC Address	IP Address	Lease Time	Туре

5.3.2 WLAN Settings

This function enables you to configure the Wi-Fi parameters.

Setting General Parameters

To configure the general Wi-Fi settings, perform the following steps:

- 1. Choose Wi-Fi > Wi-Fi Settings.
- 2. In the **General Settings** area, set WLAN to **Enable**.
- 3. Set **Mode** to one of the values described in the following table:

Parameter Value	Description
802.11 a/n/ac	The Wi-Fi client can connect to the CPE in
	802.11a, 802.11n, or 802.11ac mode in 5G
	ISM frequency. If your device supports
	802.11ac Protocol, we suggest to use
	802.11ac protocol for better experience.
802.11b/g/n	The Wi-Fi client can connect to the CPE in
	802.11b, 802.11g, or 802.11n mode. If the
	client connects to the CPE in 802.11n mode,
	the Advanced Encryption Standard (AES)
	encryption mode is required.
802.11b/g	The Wi-Fi client can connect to the CPE in



	802.11b or 802.11g mode.
802.11b	The Wi-Fi client can connect to the CPE in
	802.11b mode.
802.11g	The Wi-Fi client can connect to the CPE in
	802.11g mode.

4. Set the **Channel No.** 2.4G from 1 to 11, 5G from 40 to 165.

5. Click **Submit**. As shown in Figure 5-23.

WLAN Settings

General Settings				
Band	2.4GHz	•		
WLAN	Enable			
Mode	802.11b/g/n(Auto)	¥		
Channel	Auto	•		
SSID Profile				
SSID	LTE CPE-2F8F		*	_
Maximum number of devices	16	۲		_
Hide SSID broadcast	Enable			_
AP isolation	Enable			
Security	WPA-PSK&WPA2-PSK	۲		



Setting SSID Profile

After you configure the CPE on the **SSID Profile** page, the Wi-Fi client connects to the CPE based on preset rules, improving access Firewall.

To configure the CPE on the SSID Profile page, perform the following steps:

- 1. Choose Wi-Fi > Wi-Fi Settings.
- 2. Set **SSID**.

The SSID can contain 1 to 32 ASCII characters. It cannot be empty and the last character cannot be a blank character. In addition, the SSID cannot contain the following special characters: / ' = " &

The Wi-Fi client connects to the CPE using the found SSID.

3. Set Maximum number of devices.

This parameter indicates the maximum number of Wi-Fi clients that connect to the CPE.



A maximum of 32 clients can connect to the CPE.

4. Set Hide SSID broadcast to Enable.

If the SSID is hidden, the client cannot detect the CPE's Wi-Fi information.

5. Set **AP isolation** to **Enable**.

The clients can connect to the CPE but cannot communicate with each other.

6. Set **Security**.

If **Security** is set to **NONE (not recommended)**, Wi-Fi clients directly connect to the CPE. This Firewall level is low.

If **Security** is set to **WEP**, Wi-Fi clients connect to the CPE in web-based encryption mode.

If **Security** is set to **WPA-PSK**, Wi-Fi clients connect to the CPE in WPA-PSK encryption mode.

If **Security** is set to **WPA2-PSK**, Wi-Fi clients connect to the CPE in WPA2-PSK encryption mode. This mode is recommended because it has a high Firewall level.

If **Security** is set to **WPA-PSK & WPA2-PSK**, Wi-Fi clients connect to the CPE in WPA-PSK&WPA2-PSK encryption mode.

7. Set the encryption mode.

If	Sets to	Description
WEP	Authentication mode	 Shared authentication: The client
		connects to the CPE in shared
		authentication mode.
		• Open authentication: The client connects
		to the CPE in open authentication mode.
		• Both: The client connects to the CPE in
		shared or open authentication mode.
	Encryption password	• 128bit : Only 13 ASCII characters or 26 hex
	length	characters can be entered in the Key 1 to
		Key 4 boxes.
		• 64bit: Only 5 ASCII characters or 10 hex
		characters can be entered in the Key 1 to
		Key 4 boxes.
	Current	This value can be set to 1 , 2 , 3 , or 4 . After a key
	password index	index is selected, the corresponding key takes
		effect.
WPA-PSK	WPA-PSK	Only 8 to 63 ASCII characters or 8 to 64 hex
		characters can be entered.
	WPA encryption	This value can be set to TKIP+AES, AES, or
		ТКІР.
WPA2-PSK(reco	WPA-PSK	Only 8 to 63 ASCII characters or 8 to 64 hex
mmended)		characters can be entered.
	WPA encryption	This value can be set to TKIP+AES, AES, or
		ТКІР.
WPA-PSK &	WPA-PSK	Only 8 to 63 ASCII characters or 8 to 64 hex
WPA2-PSK		characters can be entered.



WPA encryption	This value can be set to TKIP+AES, AES, or
	TKIP.

8. Click **Submit**. As shown in Figure 5-24.

SSID	LTE CPE-2F8F	*
Maximum number of devices	16	
Hide SSID broadcast	Enable	
AP isolation	Enable	
Security	WPA-PSK&WPA2-PSK	
WPA encryption	TKIP&AES	
Show password	Enable	
Password	*******	*

5.3.3 Access Management

Setting the Access Policy

This function enables you to set access restriction policies for each SSID to manage access to the CPE.

To configure Wi-Fi MAC control settings, perform the following steps:

- 1. Choose Wi-Fi > Access Management.
- 2. In the WLAN Access List Settings area, set Access Policy.
- 3. The access policy can be set to Disable, Blacklist or Whitelist.
 - If SSID's MAC Access is set to **Disable**, access restrictions do not take effect.
 - If SSID's MAC Access is set to **Blacklist**, only the devices that are not in the blacklist can connect to the CPE.
 - If SSID's MAC Access is set to **Whitelist**, only the devices in the whitelist can connect to the CPE.
- 4. Click **Submit**. As shown in Figure 5-25.

Access Management





Figure 5-25

Managing the Wi-Fi Access List

This function enables you to set the SSID access policies based on MAC addresses.

To add an item to the Wi-Fi access list, perform the following steps:

- 1. Choose Wi-Fi > Access Management.
- 2. Click Add.
- 3. Set MAC address.
- 4. Click Submit. As shown in Figure 5-26.

	Access Management
	WLAN Access List Settings
1 717 I 1W 17 I	WLAN Access List Settings

Settings	 Disable Whitelist 	t 🔵 Blacklist		
			Submit	
WLAN Access List	(Max Limit :10)			
			Add List	
Index	MAC Address	Operation		
Settings				
MAC Address] *		
		Submit	Cancel	

Figure 5-26

To modify an item in the Wi-Fi access list, perform the following steps:

- 1. Choose Wi-Fi > Access Management.
- 2. Click Edit MAC List.
- 3. Choose the item to be modified, and click **Edit**.
- 4. Set MAC address.
- 5. Set one of the SSID to Enable to make the MAC address take effect for the SSID.
- 6. Click **Submit**. As shown in Figure 5-27.



Access Management

WLAN Access Li	st Settings			
Settings	 Disable Whitelist 	Blacklist		
			Submit	
WLAN Access Li	st (Max Limit :10)			
			Add List	
Index	MAC Address	Operation		
1	00:12:61:AE:C0:89	Delete Edit		
o delete an item from the	Wi-Fi access list, perform the	following steps:		
Choose the item to be	e deleted, and click Delete . As	shown in Figure 5-2	8.	
WLAN Access List (deleted, and click Delete . As Max Limit :10)	shown in Figure 5-2	8.	
WLAN Access List (deleted, and click Delete . As	shown in Figure 5-2	8. Add List	
WLAN Access List (Max Limit :10)	shown in Figure 5-2 Operation	8. Add List	



5.3.4 WPS Settings

Wi-Fi Protected Setup (WPS) enables you to simply add a wireless client to the network without needing to specifically configure the wireless settings, such as the SSID, Firewall mode and passphrase. You can use either the WPS button or PIN to add the wireless client. To configure Wi-Fi WPS settings, perform the following steps:

- 1. Choose **Wi-Fi** > **WPS Settings**.
- 2. Set WPS to Enable.
- 3. Select WPS mode to PBC or router PIN as you want.
- 4. Click **Submit**. As shown in Figure 5-29.



≷Wi-Fi	Settings	
WLAN Status	Band	2.4GHz
WLAN Settings		
WPS	WPS	Enable
Access Management	Configured	Yes <u>Reset</u>
Guest Network	Router PIN	41230169
Professional	WPS Mode	PBC
_	Figure 5-69	

5.3.5 Guest Network

The function is to provide a wifi network for guests.

To configure the Guest Network, perform the following steps:

1.Choose Wi-Fi > Guest Network.

2.In the Guest Network area, set Guest network to Enable. As shown in Figure 5-30.

Device Information					
📇 Network	Guest Network				
m Ethernet	Guest Network				
œWi-Fi	Guest Network				
WLAN Status	2 / 6 47				
WLAN Settings	2.4962				-
WPS	SSID	LTE CPE-2F8F_Guest			
Access Management	Allow Access to the Intranet	Disable			
Guest Network	Maximum number of	<u>16</u>	Enable	Fachle	
Professional	devices		Enable	Enable	
💭 Firewall	Hide SSID broadcast	Disable			
< VPN	AP isolation	Disable			
i⊛IPv6	Security	WPA-PSK&WPA2-PSK			
🖨 System	WPA encryption	TKIP&AES			
	Password	<u>12345678</u>			
	5GHz	Remove			
	SSID				
	Allow Access to the Intranet				



5.4 Firewall

5.4.1 Setting Firewall

This page describes how to set the firewall. If you enable or disable the firewall, you can modify the configuration.

To set the firewall, perform the following steps:

1. Choose Firewall>Firewall Setting.



- 2. Choose **Enable** or **Disable** to modify the configuration.
- 3. Click **Submit**. As shown in Figure 5-31.

Settings			
Firewall	Enable		
		Submit	Cano

If you choose enable the firewall, you can modify the configuration about firewall, such as Mac filter, IP filter, URL filter and so on. If you choose disable, you can't modify any configurations about the firewall.

5.4.2 MAC Filtering

This page enables you to configure the MAC address filtering rules.

Enabling MAC Filter

To enable MAC address filter, perform the following steps:

- 1. Choose Firewall>MAC Filtering
- 2. Set MAC filtering to Enable.
- 3. Click Submit. As shown in Figure 5-32.

MAC Filtering

MAC Filtering Manager

MAC Filtering 🕑 Enable

Within The Rule To Allow/Deny

Allow

Deny



Disabling MAC Filter

To disable MAC address filter, perform the following steps:

- 1. Choose Firewall>MAC Filtering
- 2. Set MAC filtering to **Disable**.
- 3. Click **Submit**. As shown in Figure 5-33.



MAC Filtering

		MAC Filtering Manager		
		MAC Filtering	•	Enable
		Within The Rule To Allow/Deny	0	Allow
			۲	Deny
		Figure 0-33		
	Setting Allow a	ccess network within the ru	iles	5
То	set allow access netw	ork within the rules, perform the fo	ollov	wing steps
1.	Choose Firewall>M	AC Filtering.		
2.	Set Allow access ne	twork within the rules.		
3.	Click Submit. As sho	own in Figure 5-34.		
		MAC Filtering		
		MAC Filtering Manager		
		MAC Filtering	ļ	Enable

Within The Rule To Allow/Deny

Allow

Deny

Figure 0-74

Setting Deny access network within the rules

To set deny access network within the rules, perform the following steps:

- 1. Choose Firewall>MAC Filtering.
- 2. Set **Deny access network** within the rules.
- 3. Click Submit. As shown in Figure 5-35.

MAC Filtering

MAC Filtering Manager	
MAC Filtering	Enable
Within The Rule To Allow/Deny	Allow
	Deny

Figure 0-35



Adding MAC Filtering rule

To add a MAC filtering rule, perform the following steps:

- 1. Choose Firewall>MAC Filtering.
- 2. Click Add list.
- 3. Set MAC address.
- 4. Click **Submit**. As shown in Figure 5-36.

MAC Filtering	g List	(Max I	Limit :32)
---------------	--------	--------	------------

Index	MAC Address	Operation	
Settings			
IAC Address	00:12:61:ae:c0:89	*	
		Submit	Cancel

Modifying MAC Filtering rule

To modify a MAC address rule, perform the following steps:

- 1. Choose Firewall>MAC Filtering.
- 2. Choose the rule to be modified, and click Edit.
- 3. Set MAC address.
- 4. Click **Submit**. As shown in Figure 5-37.

MAC Filtering L	st (Max	Limit:32)
-----------------	---------	-----------

		Add List
Index	MAC Address	Operation
1	00:12:61:AE:C0:89	Delete Edit
Settings		
MAC Address		*
		Submit Cancel



Deleting MAC Filtering rule

To delete a MAC address filter rule, perform the following steps:

- 1. Choose Firewall>MAC Filtering.
- 2. Choose the rule to be deleted, and click **Delete**. As shown in Figure 5-38.



CP880+CR650

MAC Filtering List (Max Limit :32)

			Add List
Index	MAC Address	Operation	
1	00:12:61:AE:C0:89	Delete Edit	
	Figure 0-38		
5.4.3 I	P Filtering	ofigure the IP addres	s filtering rules
Enabl To enable IF	ing IP Filtering P Filtering, perform the following steps: P Firewall>IP Filtering.		s intering rules
2. Set IP I	Iltering Enable.		
	IP Filtering Manager		
	IP Filtering	Enable	
	Except The Rules To Allow/Deny	 Allow Deny 	
	Figure 0-39		
Disab To disable II 1. Choose 2. Set IP I 3. Click S	ling IP Filtering P Filtering, perform the following steps: P Firewall>IP Filtering. Filtering Disable. P Filtering Disable. P Filtering Manager		
	IP Filtering	Enable	
	Except The Rules To Allow/Deny	 Allow Doput 	
	Figure 0-240	Deny	
0.44	rigure 0-540		
Settin	g Allow access network outside the	rules	

To set allow access network, perform the following steps:

- 1. Choose Firewall>IP Filtering.
- 2. Set Allow access network outside the rules.



Click **Submit**. As shown in Figure 5-41. 3.

IP Filtering Manager

	IP Filtering	Enable
	Except The Rules To Allow/Denv	Allow
	, men Deny	Deny
	Figure 0-	-41
Setting D	eny access network outside	the rules
To set allow acce	ess network, perform the following s	steps:
1. Choose Fire	ewall>IP Filtering.	
2. Set Deny a	ccess network outside the rules.	

Enable

Allow

Deny

3. Click Submit. As shown in Figure 5-42.

IP Filtering Manager

IP Filtering Except The Rules To Allow/Deny



Adding IP Filtering rule

Add an IP address filtering rule, perform the following steps:

- 1. Choose Firewall>IP Filtering.
- 2. Click Add list.
- 3. Set Service.
- 4. Set **Protocol**.
- 5. In the Source IP Address Range box, enter the source IP address or IP address segment to be filtered.
- 6. In the **Source port range** box, enter the source port or port segment to be filtered.
- 7. In the Destination IP Address Range box, enter the destination IP address or IP address segment to be filtered.
- 8. In the Destination port Range box, enter the destination port or port segment to be filtered.
- In the Status box, choose a status the rule will be executed. 9.
- 10. Click Submit. As shown in Figure 5-43.



IP Filtering List (Max Limit :32)

						Add List
Index	Protocol	Source IP Port Range	Destinati on IP	Destinati on Port Range	Status	Operatio n
Settings						
Service		Custom	Ŧ			
Protocol		ALL	•			
Source IP		192.10.64.123				
Source Por	t Range					
Destination	IP					
Destination	Port Range					
Status		Allow	•			
				S	ubmit	Cancel

Modifying IP Filtering rule

To modify an IP filtering rule, perform the following steps:

- 1. Choose Firewall > IP Filtering.
- 2. Choose the rule to be modified, and click Edit.
- 3. Repeat steps 3 through 9 in the previous procedure.
- 4. Click **Submit**. As shown in Figure 5-44.

IP Filtering List (Max Limit :32)

Source P Port Range	Destinati on IP	Destinati on Port Range	Status	Operatio n
ustom	•			
ustom LL	v v			
LL	•			
2.10.64.123				
0.10.64.123				
llow	¥			
	0.10.64.123	0.10.64.123	0.10.64.123	0.10.64.123

Figure 0-44



Deleting IP Filtering rule

To delete an IP address filtering rule, perform the following steps:

- 1. Choose Firewall > IP Filtering.
- 2. Choose the rule to be deleted, and click **Delete**. As shown in Figure 5-45.

							Add List
Index	Protocol	Source IP	Source Port Range	Destinati on IP	Destinati on Port Range	Status	Operation
1	ALL	192.10.64.12 3	N/A	100.10.64.12 3	N/A	Allow	Delete Edit

5.4.4 URL Filtering

Data is filtered by uniform resource locator (URL). This page enables you to configure URL filtering rules.

Enabling URL Filtering

To enable URL Filtering, perform the following steps:

- 1. Choose Firewall>URL Filtering.
- 2. Set URL Filtering to Enable.
- 3. Click Submit. As shown in Figure 5-46.

URL Filtering

URL Filtering Manager

URL Filtering

Enable

Figure 0-46

Disabling URL Filtering

To disable URL Filtering, perform the following steps:

- 1. Choose Firewall>URL Filtering.
- 2. Set URL Filtering to Disable.
- 3. Click **Submit**. As shown in Figure 5-47.

URL Filtering

URL Filtering Manager

URL Filtering

Enable

Figure 0-47

Adding URL Filtering list



To add an URL filtering list, perform the following steps:

- 1. Choose Firewall>URL Filtering.
- 2. Click Add list.
- 3. Set URL.
- Λ Click Submit As shown in Figure F 40

				Add List	
	Index	URL	Operation		
	Settings				
	URL	www.google.com	*		
			0.1	Consel	
		Figure 0-48	Submit	Cancel	
	C TIDT F'IL				
Modi	ify URL Filter	ring list			
Modi To modify a	ify URL Filter	r ing list ule, perform the following st	teps:		
Modi To modify a 1. Choose	ify URL Filter an URL filtering ri se Firewall>URL f	ring list ule, perform the following st Filtering.	teps:		
Modi To modify a 1. Choos 2. Choos	ify URL Filter an URL filtering rise Firewall>URL F se the rule to be r	ring list ule, perform the following st Filtering. modified, and click Edit.	teps:		
Modi To modify a 1. Choos 2. Choos 3. Set U	ify URL Filter an URL filtering ru se Firewall>URL F se the rule to be r RL address.	ring list ule, perform the following st Filtering. modified, and click Edit.	teps:		
Modi To modify a 1. Choos 2. Choos 3. Set UI 4. Click S	ify URL Filter an URL filtering ruse Firewall>URL f the rule to be rule to be rule to be r RL address. Submit . As shown	ring list ule, perform the following st Filtering. modified, and click Edit. n in Figure 5-49.	teps:		
Modi To modify a 1. Choose 2. Choose 3. Set U 4. Click s URL F	ify URL Filter an URL filtering ruse Firewall>URL F se the rule to be r RL address. Submit . As shown iltering List (ring list ule, perform the following st Filtering. modified, and click Edit. n in Figure 5-49. Max Limit :32)	teps:		
Modi To modify a 1. Choos 2. Choos 3. Set UI 4. Click s URL F	ify URL Filter an URL filtering ru se Firewall>URL f se the rule to be n RL address. Submit. As shown "iltering List (ring list ule, perform the following st Filtering. modified, and click Edit. n in Figure 5-49. Max Limit :32)	teps:	Add L	ist
Modi To modify a 1. Choos 2. Choos 3. Set UI 4. Click S URL F	ify URL Filter an URL filtering ru se Firewall>URL f se the rule to be n RL address. Submit. As shown "iltering List (ring list ule, perform the following st Filtering. modified, and click Edit. n in Figure 5-49. Max Limit :32) URL	teps:	Add L	ist

Figure 0-49

Deleting URL Filtering list

To delete an URL list, perform the following steps:

- 1. Choose Firewall>URL Filtering.
- Choose the item to be deleted, and click **Delete**. As shown in Figure 5-50. 2.

URL Filtering List (Max Limit :32)

		Add List
Index	URL	Operation
1	www.google.com	Delete Edit

Figure 0-50



5.4.5 Port Forwarding

When network address translation (NAT) is enabled on the CPE, only the IP address on the WAN side is open to the Internet. If a computer on the LAN is enabled to provide services for the Internet (for example, work as an FTP server), port forwarding is required so that all accesses to the external server port from the Internet are redirected to the server on the LAN.

Adding Port Forwarding rule

To add a port forwarding rule, perform the following steps:

- 1. Choose Firewall > Port Forwarding.
- 2. Click Add list.
- 3. Set Service.
- 4. Set Protocol.
- 5. Set Remote port range.

The port number ranges from 1 to 65535.

6. Set Local host.



•••

This IP address must be different from the IP address that is set on the LAN Host Settings page, but they must be on the same network segment.

7. Set Local port.

The port number ranges from 1 to 65535.

8. Click **Submit**. As shown in Figure 5-50.

Port Forw	varding List (Max Limit :32)			
					Add L
Index	Protocol	Remote Port Range	Local Host	Local Port	Operati
Settings					
Service		Custom	۲		
Protocol		TCP	۲		
Remote Por	t Range	2000	*		
Local Host		192.168.0.1	*		
Loool Dort		3000	*		





Modifying Port Forwarding rule

To modify a port forwarding rule, perform the following steps:

- 1. Choose Firewall > Port Forwarding.
- 2. Choose the item to be modified, and click Edit.
- 3. Re-config the service, protocol, and ports.
- 4. Click Submit. As shown in Figure 5-52.

Port Forwarding

					Add List
Index	Protocol	Remote Port Range	Local Host	Local Port	Operation
1	TCP	2000	192.168.0.1	3000	Delete Edit
-		lane re	1		
Settinas					
Service		Custom	▼		
Service Protocol		Custom TCP			
Service Protocol Remote Port	t Range	Custom TCP 2000	*		
Service Protocol Remote Por Local Host	t Range	Custom TCP 2000 192.168.0.1	*		

Figure 0-52

Deleting Port Forwarding rule

To delete a port forwarding rule, perform the following steps:

- 1. Choose Firewall > Port Forwarding.
- 2. Choose the item to be deleted, and click **Delete**. As shown in Figure 5-53.

Port Forwarding List (Max Limit :32)

					Add List
Index	Protocol	Remote Port Range	Local Host	Local Port	Operation
1	TCP	2000	192.168.0.1	3000	Delete Edit

Figure 0-53

5.4.6 Access Restriction



Access Restriction

						Add List
Index Ena	ible Na	ame	Device	Weekdays	Time	Operation
Settings						
Enable		Enable				
Name		ABC		*		
Device		00:12:61:AE	:C0:89	*		
Weekdays		Mon T	ue Wed	Thu Fri	Sat Sun	
Time		0 •	• •	- 23 🔻	59 🔻	
					Cubmit	Cancel

Add Access Restriction

To add an access restriction rule, perform the following steps:

- 1. Choose Security>Access Restriction.
- 2. Click Add list.
- 3. Set Access Restriction to Enable.
- 4. Set Access Restriction Name.
- 5. Set Device MAC address or IP address.
- 6. Set Weekdays and time.
- 7. Click **Submit**.

Modify Access Restriction

To modify an access restriction rule, perform the following steps:

- 1. Choose Security>Access Restriction.
- 2. Choose the item to be modified, and click **Edit**.
- 3. Repeat steps 4 through 6 in the previous procedure.
- 4. Click Submit.

Delete Access Restriction

To delete a access restriction rule, perform the following steps:

1. Choose Security>Access Restriction.



2. Choose the item to be deleted, and click **Delete**.

5.4.7 UPnP

On this page, you can enable or disable the Universal Plug and Play (UPnP) function.

To enable UPnP, perform the following steps:

- 1. Choose Firewall > UPnP.
- 2. Set UPnP to Enable.
- 3. Click Submit. As shown in Figure 5-55.

۱P				
Settings				
UPnP		Enable		
				Submit
Current U	PnP Status			
Index	Description	Protocol	IP Address	External Port Internal Port
		Figure	e 0-55	

C

5.4.8 DoS

On this page, you can enable or disable the Denial of service (DoS) function.

- 1. Choose Firewall > DoS.
- 2. Set **UPnP** to **Enable**.
- 3. Click **Submit**. As shown in Figure 5-56.



DoS

DoS Settings		
DoS	Enable O Disable	
Sync flood	Enable	
Ping flood	Enable	
TCP port scan	Enable	
UDP port scan	Enable	
		Submit Cancel
	Figure 0-86	



This function enables you to connect the virtual private network (VPN).

To connect the VPN, perform the following steps:

- 1. Choose VPN.
- 2. In the VPN Settings area, enable VPN.
- 3. Select a protocol from **Protocol** drop-down list.
- 4. Enter Username and Password.
- 5. Click Submit.
- 6. You can view the status in **VPN Status** area. As shown in Figure 5-57.

e Information	1	
ork	VPN Settings	
let	VPN	Enable
	Protocol	L2TP v
ł	VPN Server	172 16 34 120 *
		172.10,04.120
	Username	TEST *
	Password	···· ~ *
	Host Name	cpe_lac
	Bear Device	APN1 V
	Default Gateway	Enable
	IPsec Enable	Enable
	IPsec Password	~ ·
	VPN Status	
	Username	Local Address Remote Address Online Time

Figure 5-57



5.6 IPv6

Internet Protocol version 6 (IPv6) is the most recent version of the Internet Protocol (IP). Every device on the Internet is assigned an unique IP address for identification and location definition.

5.6.1 Status

The status page shows IPv6 information. As shown in Figure 5-58.

Enable
AutoConfiguration
÷
fe80::1
SLAAC

5.6.2 IPv6 WAN Settings

In this page, user can enable or disable IPv6 function. Meanwhile, user can set WAN Connection Type and the type of DNS.As shown in Figure 5-59

WAN			
IPv6 Enable	Enable		
WAN Settings			
WAN Connection Type	AutoConfiguration •		
IPv6 MGMT Global Address			
DNS From	DHCPv6]	
Bear Device	APN1 •		

Figure 5-59



5.6.3 IPv6 LAN Settings

In this page, user can choose the Auto Configuration Type. As shown in Figure 5-60.

П	Pv6 LAN Settings			
_	LAN Settings			
	IPv6 Link-Local Address	fe80::1		
	AutoConfiguration Type	SLAAC		
		SLAAC DHCPv6		
			Submit	Cancel
	Figure	5-60		
5.7 System				
5.7.1 Mainten	ance			

Reboot

This function enables you to restart the CPE. Settings take effect only after the CPE restarts. To restart the CPE, perform the following steps:

- 1. Choose System>Maintenance.
- Click **Reboot**. As shown in Figure 5-61. The CPE then restarts.

Reboot

Click Reboot to reboot device

Reboot

Figure 5-61

Reset

This function enables you to restore the CPE to its default settings.

- To restore the CPE, perform the following steps:
- 1. Choose System>Maintenance.
- Click Factory Reset. As shown in Figure 5-62. The CPE is then restored to its default settings.



Factory Reset

Click Factory Reset to restore device to its factory settings

Factory Reset

Figure 5-62

Backup Configuration File

You can download the existing configuration file to back it up. To do so:

- 1. Choose System>Maintenance.
- 2. Click **Download** on the **Maintenance** page.
- 3. In the displayed dialog box, select the save path and name of the configuration file to be backed up.
- 4. Click Save. As shown in Figure 5-63.

The procedure for file downloading may vary with the browser you are using.

Backup Configuration File

To backup the current configuration file, click Download.

Download

Figure 5-63

Upload Configuration File

You can upload a backed-up configuration file to restore the CPE. To do so:

- 1. Choose System>Maintenance.
- 2. Click Browse on the Maintenance page.
- 3. In the displayed dialog box, select the backed-up configuration file.
- 4. Click **Open**.
- 5. The dialog box chooses. In the box to be right of Configuration file, the save path and name of the backed-up configuration file are displayed.
- 6. Click **Upload**. As shown in Figure 5-64.

The CPE uploads the backed-up configuration file. The CPE then automatically restarts.

Restore Configuration File

To restore the configuration file, specify the path of the local configuration file, import the file, and click **Upload** to restore the configuration file

Configuration File Choose File No file chosen

Upload

Figure 5-64



5.7.2 TR069

TR-069 is a standard for communication between CPEs and the auto-configuration server (ACS). If your service provider uses the TR069 automatic service provision function, the ACS automatically provides the CPE parameters. If you set the ACS parameters on both the CPE and ACS, the network parameters on the CPE are automatically set using the TR-069 function, and you do not need to set other parameters on the CPE.

To configure the CPE to implement the TR-069 function, perform the following steps:

- 1. Choose System>TR069.
- 2. Set acs URL source. There are two methods, such as URL and DHCP.
- 3. In the ACS URL box, enter the ACS URL address.
- 4. Enter ACS user name and password for the CPE authentication.
 - To use the CPE to access the ACS, you must provide a user name and password for authentication. The user name and the password must be the same as those defined on the ACS.
- 5. If you set Periodic inform to Enable, set Periodic inform interval.
- 6. Set connection request user name and password.
- 7. Click **Submit**. As shown in Figure 5-65.

TR069

Sottinge

Settings			
Enable TR069	Enable		
ACS URL Source	URL	•	
ACS URL	http://192.168.0.10/acs		*
ACS Username	tr069		*
ACS Password	*****	\rightarrow	*
Enable Periodic Inform	Enable		
Periodic Inform Interval	3600		*
Connection Request Username	tr069		
Connection Request Password	•••••	\mathbf{y}	

Figure 5-65

Submit Cancel

5.7.3 SNMP

You can enable SNMP and set config SNMP trap.



The UE will actively report changes of some certain values to the SNMP server.

Settings			
SNMP Enable	Enable		
SNMP Walk on LAN	Enable		
Frap Enable	Enable		
Frap Server		*	
Port		*	

5.7.4 Date & Time

You can set the system time manually or synchronize it with the network. If you select **Sync from network**, the CPE regularly synchronizes the time with the specified Network Time Protocol (NTP) server. If you enable daylight saving time (DST), the CPE also adjusts the system time for DST.

To set the date and time, perform the following steps:

- 1. Choose System > Date & Time.
- 2. Select Set manually.
- 3. Set Local time or click Sync to automatically fill in the current local system time.
- 4. Click **Submit**. As shown in Figure 5-67.

Date & Time	
Settings	
Current Time	2020-03-26 18:52:33
Set Manually	
Local Time	2020 / 03 / 26 / 18 / 52 / 18 (format:YYYY/MM/DD/HH/MM/SS,the value of year is between 2000 and 2030) Sync



To synchronize the time with the network, perform the following steps:

- 1. Choose System > Date & Time.
- 2. Select Sync from network.
- 3. From the Primary NTP server drop-down list, select a server as the primary server for time



synchronization.

- 4. From the **Secondary NTP server** drop-down list, select a server as the IP address of the secondary server for time synchronization.
- 5. If you don't want to use other NTP server, you need to enable **Optional ntp server**, and set a server IP address.
- 6. Set Time zone.
- 7. Click Submit. As shown in Figure 5-68.

e & Time		
Settings		
Current Time	2020-03-26 18:53:43	
Set Manually		
Sync from Network		
Primary NTP Server	pool.ntp.org	
Secondary NTP Server	asia.pool.ntp.org	
Optional NTP Server		
Time Zone	(GMT+08:00) Beijing, Chongqing, Hong Kong, Urumqi	V
	Figure 5-68	

To set DST, perform the following steps:

- 1. Choose System>Date&Time.
- 2. Set **DST** enable.
- 3. Set Start Time and End Time.
- 4. Click **Submit**. As shown in Figure 5-69.

DST	
DST	Enable
Start Time	Mar V Second V Mon V (2020-03-09) at 2 o'clock
End Time	Nov v First v Sun v (2020-11-01) at 2 o'clock
Status	Not Running
	Figure 5-69

The CPE will automatically provide the DST time based on the time zone.



5.7.5 DDNS

Dynamic Domain Name Server (DDNS) service is used to map the user's dynamic IP address to a fixed DNS service.

To configure DDNS settings, perform the following steps:

- 1. Choose **System > DDNS**.
- 2. Set DDNS to **Enable**.
- 3. In Service provider, choose DynDNS.org or oray.com.
- 4. Enter **Domain name** and **Host name**. For example, if the domain name provided by your service provider is test.customtest.dyndns.org, enter customtest.dyndns.org as Domain name, and test as Host name.
- 5. Enter User name and Password.
- 6. Click Submit. As shown in Figure 5-70.

	-		0
		•	~
		t N	0
_	-		-

DDNS (Dynamic Domain Nar even with a dynamic public IF	ne System) is a service that allows network cl address, through its registered domain name	ients to connect to the wireless router,
DDNS Settings		
DDNS	Enable	
Service Provider	WWW.DYNDNS.ORG	
Domain	*	
Username	*	
Password	*	
Refresh	•	
Enable Wildcard	Enable	
WAN IP and domain veri	cation 🔲 Enable	

Figure 5-70

5.7.6 Diagnosis

If the CPE is not functioning correctly, you can use the diagnosis tools on the **Diagnosis** page to preliminarily identify the problem so that actions can be taken to solve it.



Ping

If the CPE fails to access the Internet, run the ping command to preliminarily identify the problem. To do so:

- 1. Choose System>Diagnosis.
- 2. In the Method area, select **Ping**.
- 3. Enter the domain name in the Target IP or domain field, for example, <u>www.google.com</u>.
- 4. Set Packet size and Timeout.
- 5. Set Count.
- 6. Click Ping. As shown in Figure 5-71.

Wait until the ping command is executed. The execution results are displayed in the Results box.

gnostics					
Method					_
Method of Diagnostics	Ping				
	TraceRoute				
Ping					
Target IP/Domain	www.baidu.com	*			
Packet Size	56	*			
Timeout	10	*			
Count	4	*			
			Ping	Cancel	
Result					
Result	Pass				
Details	PING www.baidu.com (64 bytes from 112.80.2 64 bytes from 112.80.2 64 bytes from 112.80.2 64 bytes from 112.80.2	(112.80.248.75); 56 data bytes 48.75; seq=0 ttl=54 time=163.44 48.75; seq=1 ttl=54 time=51.388 48.75; seq=2 ttl=54 time=51.369 48.75; seq=3 ttl=54 time=59.464	7 ms ms ms ms		
	 www.baidu.com ping 4 packets transmitted, round-trip min/avg/max 	g statistics 4 packets received, 0% packet lo : = 51.388/83.917/163.447 ms	iss //		
	Figu	ıre 5-71			

Traceroute

If the CPE fails to access the Internet, run the Traceroute command to preliminarily identify the problem. To do so:

- 1. Choose System>Diagnosis.
- 2. In the Method area, select **Traceroute**.



3. Enter the domain name in the Target IP or domain field. For example, <u>www.google.com</u>.

- 4. Set Maximum hops ad Timeout.
- 5. Click Traceroute. As shown in Figure 5-72

Wait until the traceroute command is executed. The execution results are displayed in the Results box.

Diagnostics

ignostics					
Method					
Method of Diagnostics	Ping				
Traceroute	TraceRoute				
Target IP/Domain	www.baidu.com	*			
Maximum Hops	30	*			
Timeout	10	×			
			Traceroute	Cancel	
Result					
Result	Pass				
Details	traceroute to www.baidu.co byte packets 1 192.168.23.50 (192.168 2 * 3 10.0.10.1 (10.0.10.1) 22 4 58.246.124.193 (58.246 5 112.64.249.145 (112.64 6 139.226.203.122 (139.2 7 139.226.225.153 (139.2 8 219.158.97.106 (219.15	m (112.80.248.75), 30 hops max, 3 .23.50) 758.544 ms 24.854 ms .124.193) 50.321 ms .249.145) 31.167 ms 26.203.122) 44.152 ms 26.225.153) 58.233 ms 8.97.106) 198.055 ms	*		

Figure 5-72

5.7.7 Port Mirror

Port mirroring is used on a network switch to send a copy of network packets seen on one switch port. To do so:

- 1. Choose System>Port Mirror.
- 2. Enable Port Mirror.
- 3. Select the **WAN Interface** which you want a copy.
- 4. Type the **Monitor IP**, where the copy will send to.
- 5. Click **Submit**. As shown in Figure 5-73.



Port Mirror

Settings					
Enable	Enable				
WAN Interface	APN1	۲			
Forward IP Address	192.168.1.120	j e	*		

Figure

5-73

5.7.8 Syslog

The syslog record user operations and key running events.

Local

To set the syslog to local, perform the following steps:

- 1. Choose System>Syslog.
- 2. In the **Setting** area, set the method to **Local**.
- 3. In the Level drop-down list, select a log level.
- 4. Click **Submit**. As shown in Figure 5-74.

Syslog

Settings				
Method	Network			
	Local			
Network				
Forward IP Address	192,168.1.120	*		
			~	



Viewing local syslog

To view the local syslog, perform the following steps:

- 1. In the **Keyword** box, set a keyword.
- 2. Click **Pull**, the result box will display.



Network

To set the syslog to network, perform the following steps:

- 1. Choose System>Syslog.
- 2. In the Setting area, set the method to Network.
- 3. In the Level drop-down list, select a log level.
- 4. In the Forward IP address box, set an IP address.
- 5. Click Submit. As shown in Figure 5-75.

The syslog will transmit to some client to display through network.

Network				
Local				
192,168.1.120 *				
		Submit	Cancel	
	Network Local 192,168.1.120 *	Network Local 192,168.1.120 *	Network Local 192,168.1.120 *	Network Local 192,168.1.120 *



5.7.9 Uart

To use the RS232 or RS485 communicate, we should setting the value here.



Uart

11 10 11

Communication Interface	RS232	
RS232 Passthrough	Enable	
Baud	115200	۲
Data bit	8	۲
Stop bit	1	۲
Parity	NONE	۲
Socket Mode	client	۲
Target IP	192.168.0.10	
Port	15301	

The target IP is terminal's IP. The port should be set the same as terminal.

5.7.10 WEB Setting

To configure the parameters of WEB, perform the following steps:

- 1. Choose System> WEB Setting.
- 2. Set **HTTP** enable. If you set HTTP disable, you will can't login the web management page with the HTTP protocol from WAN side.
- 3. Set **HTTP port**. If you want to change the login port, you can set a new port in the box, the default HTTP port is 80.
- 4. Set **HTTPS** enable. If you want to login the web management page with the HTTPS protocol from WAN side, you need to enable the HTTPS.
- 5. If you want to login the web management page form the **WAN**, you need to Enable **Allowing login from WAN**.
- 6. Set the **HTTPS port**.
- 7. Click **Submit**. As shown in Figure 5-77.



WEB Settings

Settings					
HTTP Enable	Enable				
HTTP Port	80	*			
HTTPs Enable	Enable				
Allow HTTPs Login from WAN	Enable				
Allow PING from WAN	Enable				
HTTPs Port	443	*			
Refresh Time	10	*			
Session Timeout	10	*			
Language	English •				
			Submit	Cancel	
	Figure 5-	77			

5.7.11 Account

This function enables you to change the login password of the user. After the password changes, enter the new password the next time you login.

To change the password, perform the following steps:

- 1. Choose System>Account.
- 2. Select the **user name**, if you want to change the password of normal user, you need to set **Enable User** enable.
- 3. Enter the current password, set a new password, and confirm the new password.
- 4. New password and Confirm password must contain 5 to 15 characters.
- 5. Click **Submit**. As shown in Figure 5-78.

Account

Username	superadmin v
Current Password)
New Password	
Confirm Password	ý

Figure 5-78

Submit Cancel



5.7.12 Logout

To logout the web management page, perform the following steps:

1. Choose System and click Logout

It will return to the login page.



FAQs

The POWER indicator does not turn on.

- > Make sure that the power cable is connected properly and the CPE is powered on.
- Make sure that the power adapter is compatible with the CPE.

Fails to Log in to the web management page.

- Make sure that the CPE is started.
- Verify that the CPE is correctly connected to the computer through a network cable. If the problem persists, contact authorized local service suppliers.

The CPE fails to search for the wireless network.

- Check that the power adapter is connected properly.
- Check that the CPE is placed in an open area that is far away from obstructions, such as concrete or wooden walls.
- Check that the CPE is placed far away from household electrical appliances that generate strong electromagnetic field, such as microwave ovens, refrigerators, and satellite dishes.

If the problem persists, contact authorized local service suppliers.

The power adapter of the CPE is overheated.

- The CPE will be overheated after being used for a long time. Therefore, power off the CPE when you are not using it.
- > Check that the CPE is properly ventilated and shielded from direct sunlight.

The parameters are restored to default values.

- If the CPE powers off unexpectedly while being configured, the parameters may be restored to the default settings.
- After configuring the parameters, download the configuration file to quickly restore the CPE to the desired settings.



FCC Regulations:

§ 15.19 (a)(3)

This mobile phone complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

§ 15.21

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

§ 15.105 (b)

This mobile phone has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiated radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

FCC RF Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. To comply with FCC RF Exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for the transmitter must be installed to provide a separation distance of at least 25cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmit.