

**JATONTEC JT8500D LTE-A Pro
CAT12 Outdoor CPE
Administrator User Manual V2.0**



PLEASE READ THESE SAFETY PRECAUTIONS!

RF Energy Health Hazard



The radio equipment described in this guide uses radio frequency transmitters. Although the power level is low, the concentrated energy from a directional antenna may pose a health hazard.

Do not allow people to come in close proximity to the front of the antenna while the transmitter is operating.

Protection from Lightning



Before connecting this instrument to the power line, make sure that the voltage of the power source matches the requirements of the instrument. The unit must be standards.

Disposal and Recycling Information



Pursuant to the WEEE EU Directive electronic and electrical waste must not be disposed of with unsorted waste. Please contact your local recycling authority for disposal of this product.

Reduction of Hazardous Substances



This CPE is compliant with the EU Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) Regulation (Regulation No 1907/2006/EC of the European Parliament and of the Council) and the EU Restriction of Hazardous Substances (RoHS) Directive (Directive 2002/95/EC of the European Parliament and of the Council).

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1. Overview

JATONTEC 8500D is highly advanced LTE-A Pro CAT12 outdoor data unit specially designed to meet the most challenging demands of today's high speed wireless backhaul and fixed wireless access deployments by the 4G service operators. The unit can support multiple TDD band operations. Multiple operator network support can also be provisioned on the unit to allow the deployment across entire country with different operators.

■ User Interface Specification

Model	Description & User Interface
JT8500D	<ul style="list-style-type: none"> - Panel antenna: 17dBi (2*2 MIMO 4CA), 13dBi (4*4 MIMO 2CA) - 1 RJ45 10/100/1000M LAN Port - PWR, SYS, SIM, LINK, ACT, and LTE (1-5) LEDs - 48V/0.5A PoE supply, ODU Power <15 Watts - Dimensions: 250 mm (L) × 250 mm (W) × 75 mm (D) - Weight: <2.5 Kg

2. Getting Started

1) Packing list

Upon receiving the product, please unpack the product package carefully. Each product is shipped with the following items:

Table 2-1 Packing List

Outdoor CPE Products	Quantity
ODU unit	1
PoE adapter	1
Power cord	1
Mounting brackets	1
PC Ethernet Cable	1

If you find any of the items is missing, please contact our local distributor immediately.

2) Unpacking the Equipment

Table 2-1 lists all the standard parts that are supplied in your LTE CPE Unit Installation Package. Please take the time to unpack the package and check its contents against this list.



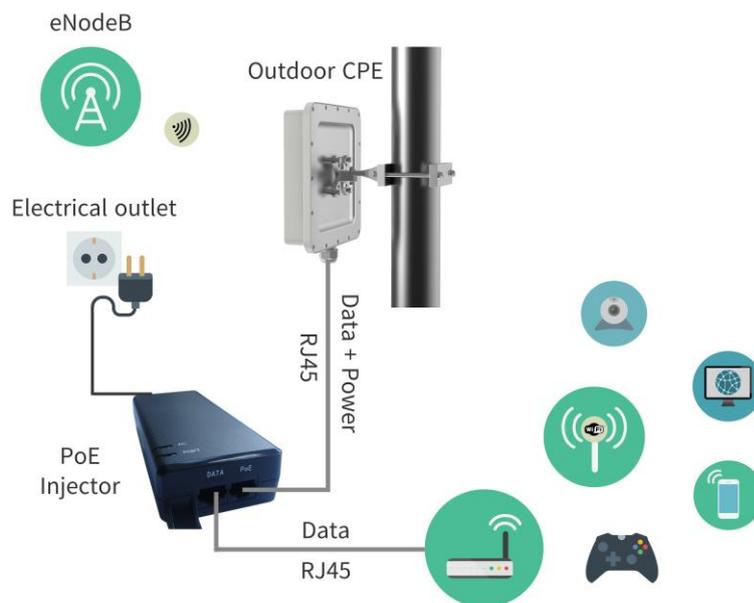
3) Installing the Equipment

■ Device Logic connection

For outdoor CPE product, it is suggested that the CPE device be installed in a shaded area to avoid direct sun light exposure which may cause over heat in certain extreme weather condition.

To power on the device, the outdoor CPE must use a 48V PoE integrated DC power supply adapter. The power adapters can operate in 100-240V AC range and therefore can be used in different country. Once the device is powered up, the user should wait for about 1 minutes before the device becomes operational. When the RF1 LED becomes blinking green, it indicates the system has completed the startup procedure.

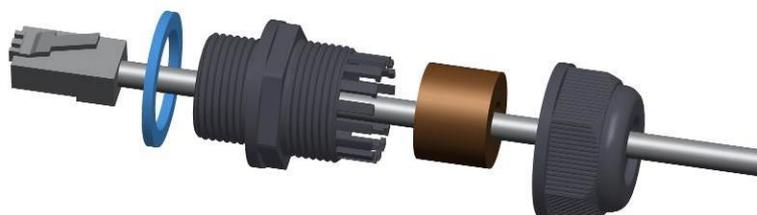
To connect PC, LAN switch or other type of IP device to the CPE product, the user should use SFTP CAT5E Ethernet cable and connect to the appropriate LAN port. Once connected, the ETH LED indicator should come on.



■ **Installing Mounting brackets**



■ **Header Connection**



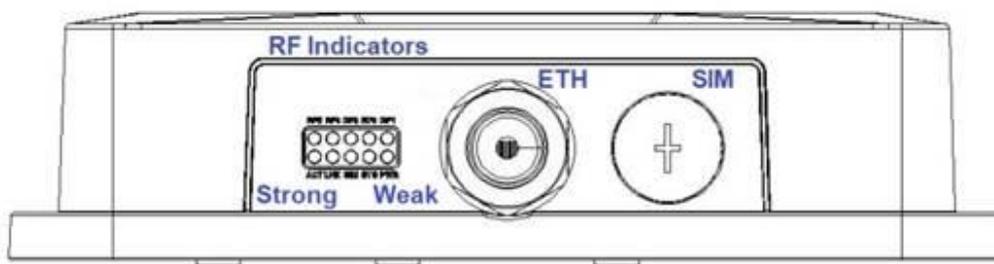
2 LED Display

Type	LED	Function	Description
ODU	PWR	Power indicator	Solid green – Device is power on.
	SYS	System run indicator	Solid green – Device is in normal operation.
	SIM	SIM card indicator	Light is on – SIM card state is ready, Blinking Green – SIM card is error.
	LINK	LAN port status	Solid Green – LAN port is up.
	ACT	LAN port status	Blinking Green – LAN data transmission.
	RF (5LEDs)	RF Signal Strength	5 level signal strengths indication by 5 green LEDs. 1st Green LED: $-115\text{dBm} < \text{RSRP}$ 2nd Green LED: $-115\text{dBm} \leq \text{RSRP} < -105\text{dBm}$ 3rd Green LED: $-105\text{dBm} \leq \text{RSRP} < -95\text{dBm}$ 4th Green LED: $-95\text{dBm} \leq \text{RSRP} < -85\text{dBm}$ 5th Green LED: $-85 \leq \text{RSRP}$

■ RF Signal Adjustment

After the CPE outdoor unit has installed, the direction of antenna's azimuth and pitch angle needs to adjust for the best signal strength. In near line of sight condition, the CPE will have the best signal when the antenna is directly pointing the base station.

User can adjust the holder to change the direction and angle of the antenna while observing the RF LED on the outdoor unit which indicates the signal strength.

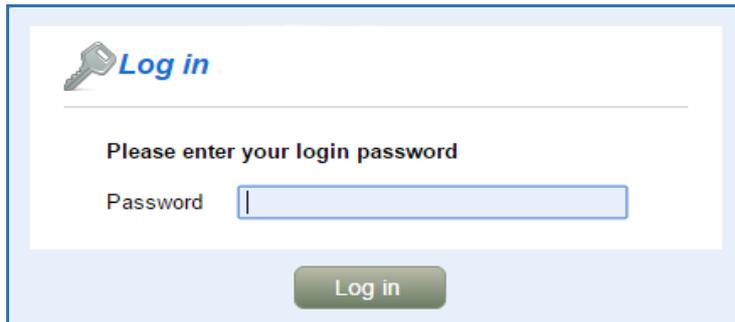


3 Managing CPE Device

JT8500D is a user-friendly LTE CPE, and very easy to configure and setup. Subscribers can just connect the device to their computer or home switch/router and the device is ready to provide Internet Services.

■ WEB Login

It is preferred to setup the CPE using a Web browser from a local PC connected to device LAN port. The user should ensure that the connected PC has acquired IP address via DHCP from the device. After IP connectivity is established between the PC and CPE device, the user may launch a Web browser and specify <http://192.168.0.1> in the address bar. A window will pop up requesting password. Input the user or administrator login password and then click the “Log in” button. After successful log on, the default home page will appear. Note the default user & administrator passwords are “user123” and “admin123” respectively.



The screenshot displays a web login page. At the top left, there is a key icon followed by the text "Log in". Below this, a horizontal line separates the header from the main content. The main content area contains the text "Please enter your login password" and a label "Password" next to a text input field. At the bottom center of the page, there is a green button labeled "Log in".

4 LTE Configuration

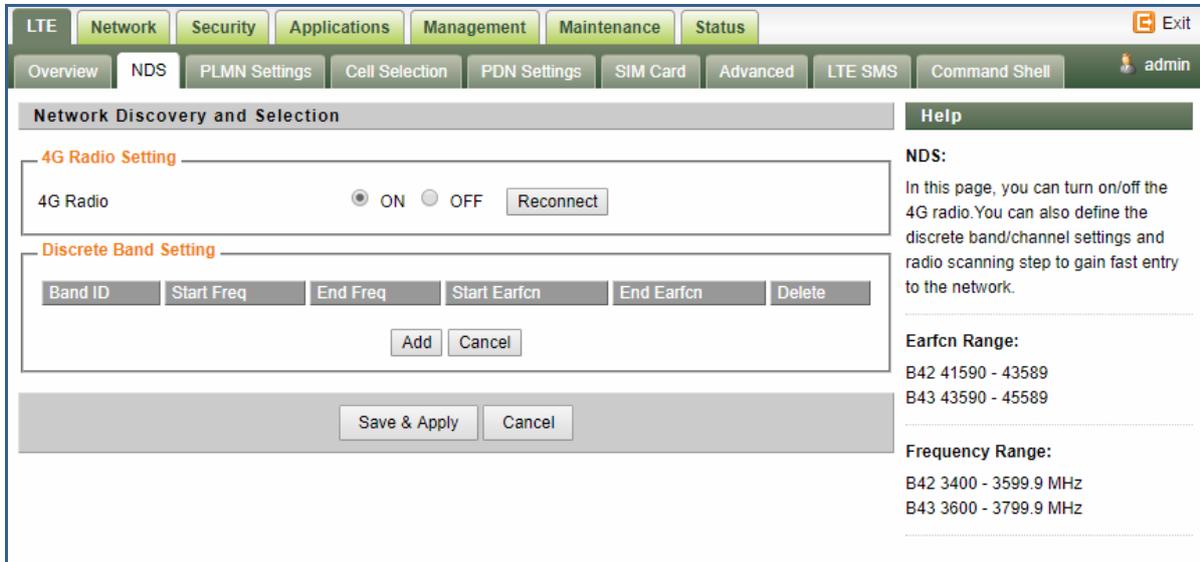
■ Overview

Once the user is logged in, the following window device status window will be prompted for viewing. It contains both the system information, networking and device information configured for the device.

LTE	Network	Security	Applications	Management	Maintenance	Status	Exit																																								
Overview	NDS	PLMN Settings	Cell Selection	PDN Settings	SIM Card	Advanced	LTE SMS																																								
LTE Information						Help																																									
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■ ND&S Configuration

The LTE radio can be enabled or disabled via 4G Radio setting. The radio can also be reset via Reconnect.



4G Radio Setting

4G Radio ON OFF

Discrete Band Setting

Band ID	Start Freq	End Freq	Start Earfcn	End Earfcn	Delete
<input type="button" value="Add"/> <input type="button" value="Cancel"/>					

Help

NDS:
In this page, you can turn on/off the 4G radio. You can also define the discrete band/channel settings and radio scanning step to gain fast entry to the network.

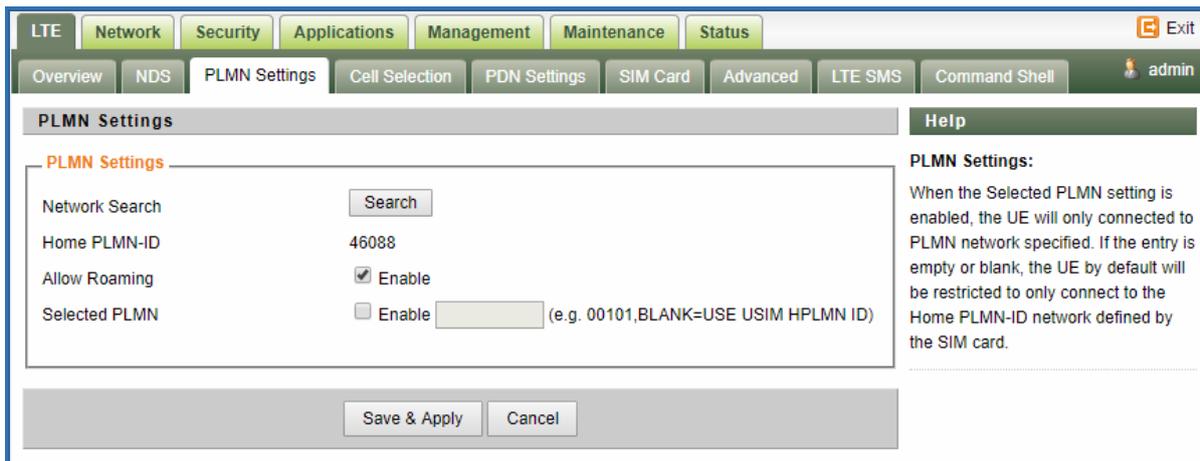
Earfcn Range:
B42 41590 - 43589
B43 43590 - 45589

Frequency Range:
B42 3400 - 3599.9 MHz
B43 3600 - 3799.9 MHz

Note: After configure any parameters of the device, you must click the “Save & Apply” button to save the configuration. Otherwise the configuration will not take effect.

■ PLMN Selection

The user can add and configure the PLMN list to restrict the CPE to attach. The CPE will attach to network according to the PLMN priority assigned.



PLMN Settings

PLMN Settings

Network Search

Home PLMN-ID 46088

Allow Roaming Enable

Selected PLMN Enable (e.g. 00101,BLANK=USE USIM HPLMN ID)

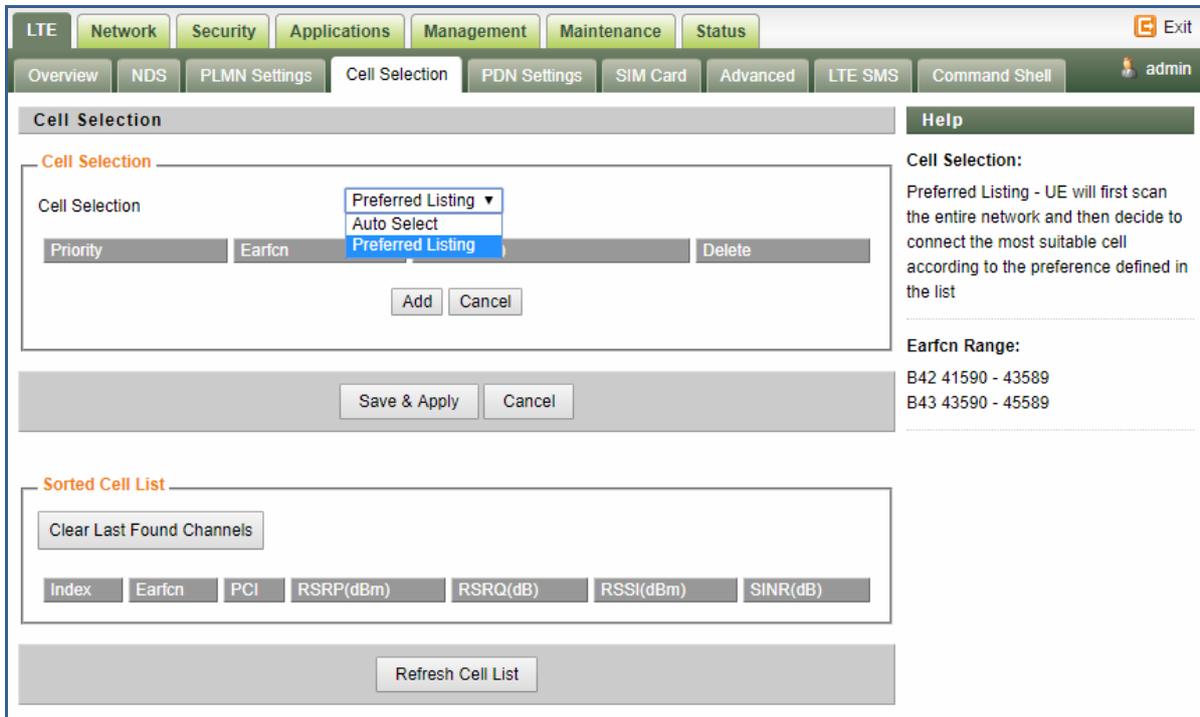
Help

PLMN Settings:
When the Selected PLMN setting is enabled, the UE will only connected to PLMN network specified. If the entry is empty or blank, the UE by default will be restricted to only connect to the Home PLMN-ID network defined by the SIM card.

■ Cell Selection

The cell selection menu is used to configure how CPE will select the best cell. User can configure the “Auto Select” mode to select cell based 3GPP standard. When configured with

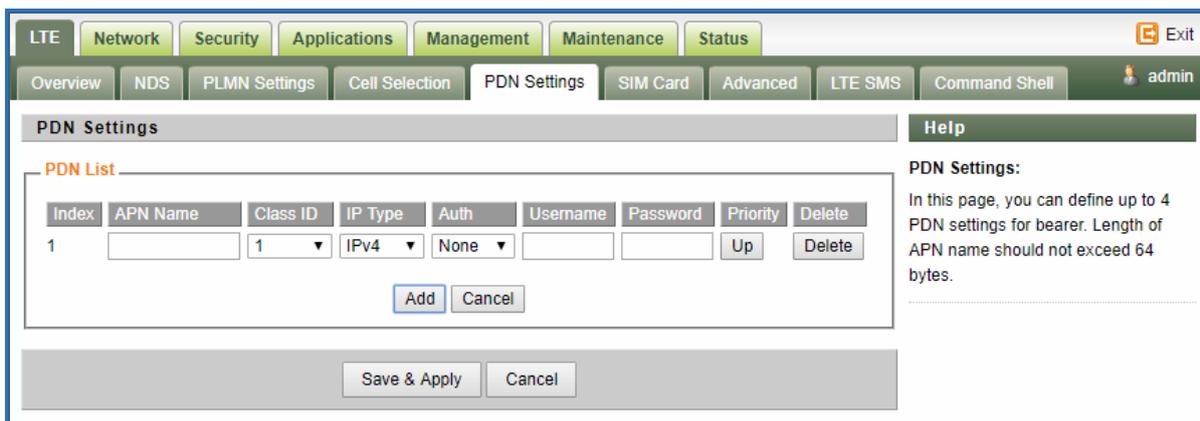
“preferred Listing”, user add the desired cell ID to the list and the CPE will attach to the appropriate cell after a full scan.



The screenshot shows the 'Cell Selection' configuration page. At the top, there are navigation tabs: LTE, Network, Security, Applications, Management, Maintenance, and Status. Below these are sub-tabs: Overview, NDS, PLMN Settings, Cell Selection, PDN Settings, SIM Card, Advanced, LTE SMS, and Command Shell. The 'Cell Selection' sub-tab is active. The page title is 'Cell Selection'. On the right, there is a 'Help' section with the text: 'Cell Selection: Preferred Listing - UE will first scan the entire network and then decide to connect the most suitable cell according to the preference defined in the list'. Below the help text, there is an 'Earfcn Range:' section with two ranges: 'B42 41590 - 43589' and 'B43 43590 - 45589'. The main configuration area has a 'Cell Selection' section with a dropdown menu set to 'Preferred Listing'. Below the dropdown is a table with columns: Priority, Earfcn, Preferred Listing, and Delete. There are 'Add' and 'Cancel' buttons below the table. At the bottom of this section are 'Save & Apply' and 'Cancel' buttons. Below this is a 'Sorted Cell List' section with a 'Clear Last Found Channels' button. Below that is a table with columns: Index, Earfcn, PCI, RSRP(dBm), RSRQ(dB), RSSI(dBm), and SINR(dB). At the bottom of this section is a 'Refresh Cell List' button.

■ PDN Setting

This menu is used to configure the operator APN profile. You can configure single or multiple APNs for the operator network. The below shows an example of two APN configuration.

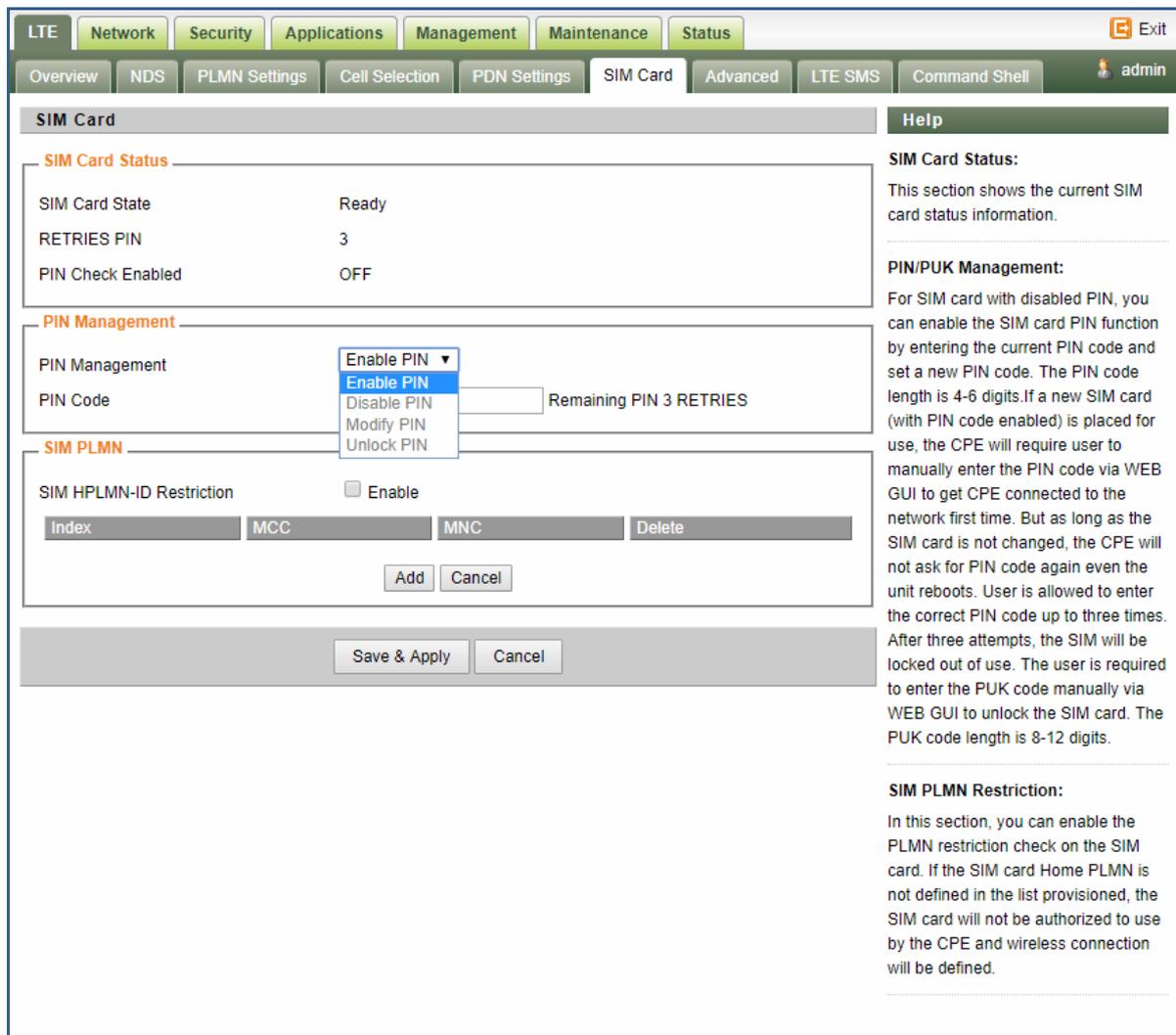


The screenshot shows the 'PDN Settings' configuration page. At the top, there are navigation tabs: LTE, Network, Security, Applications, Management, Maintenance, and Status. Below these are sub-tabs: Overview, NDS, PLMN Settings, Cell Selection, PDN Settings, SIM Card, Advanced, LTE SMS, and Command Shell. The 'PDN Settings' sub-tab is active. The page title is 'PDN Settings'. On the right, there is a 'Help' section with the text: 'PDN Settings: In this page, you can define up to 4 PDN settings for bearer. Length of APN name should not exceed 64 bytes.'. The main configuration area has a 'PDN List' section with a table. The table has columns: Index, APN Name, Class ID, IP Type, Auth, Username, Password, Priority, and Delete. There is one row with Index '1', APN Name (empty), Class ID '1', IP Type 'IPv4', Auth 'None', Username (empty), Password (empty), Priority 'Up', and Delete 'Delete'. There are 'Add' and 'Cancel' buttons below the table. At the bottom of this section are 'Save & Apply' and 'Cancel' buttons.

You can view the APN status info in the Status menu.

■ SIM Card

The SIM card menu is used to view the SIM card status and perform PIN code management for SIM card. You disable or enable the SIM card PIN check on the CPE to bind the SIM card inserted.



SIM Card

SIM Card Status

SIM Card State	Ready
RETRIES PIN	3
PIN Check Enabled	OFF

PIN Management

PIN Management: **Enable PIN** (dropdown menu open)

PIN Code: Remaining PIN 3 RETRIES

SIM PLMN

SIM HPLMN-ID Restriction: Enable

Index	MCC	MNC	Delete

Buttons: Add, Cancel, Save & Apply, Cancel

Help

SIM Card Status:
This section shows the current SIM card status information.

PIN/PUK Management:
For SIM card with disabled PIN, you can enable the SIM card PIN function by entering the current PIN code and set a new PIN code. The PIN code length is 4-6 digits. If a new SIM card (with PIN code enabled) is placed for use, the CPE will require user to manually enter the PIN code via WEB GUI to get CPE connected to the network first time. But as long as the SIM card is not changed, the CPE will not ask for PIN code again even the unit reboots. User is allowed to enter the correct PIN code up to three times. After three attempts, the SIM will be locked out of use. The user is required to enter the PUK code manually via WEB GUI to unlock the SIM card. The PUK code length is 8-12 digits.

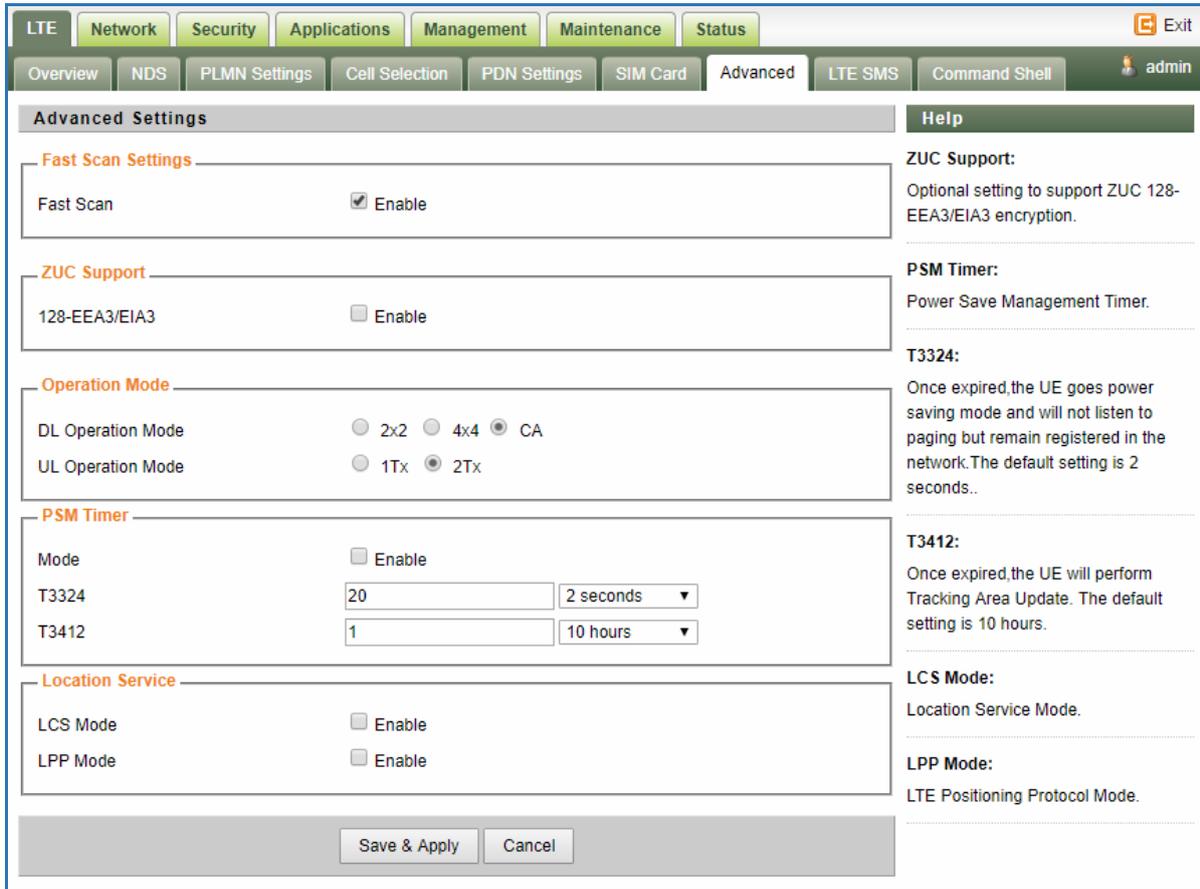
SIM PLMN Restriction:
In this section, you can enable the PLMN restriction check on the SIM card. If the SIM card Home PLMN is not defined in the list provisioned, the SIM card will not be authorized to use by the CPE and wireless connection will be defined.

■ Advanced

In this menu, you can configure advanced options for the CPE operation.

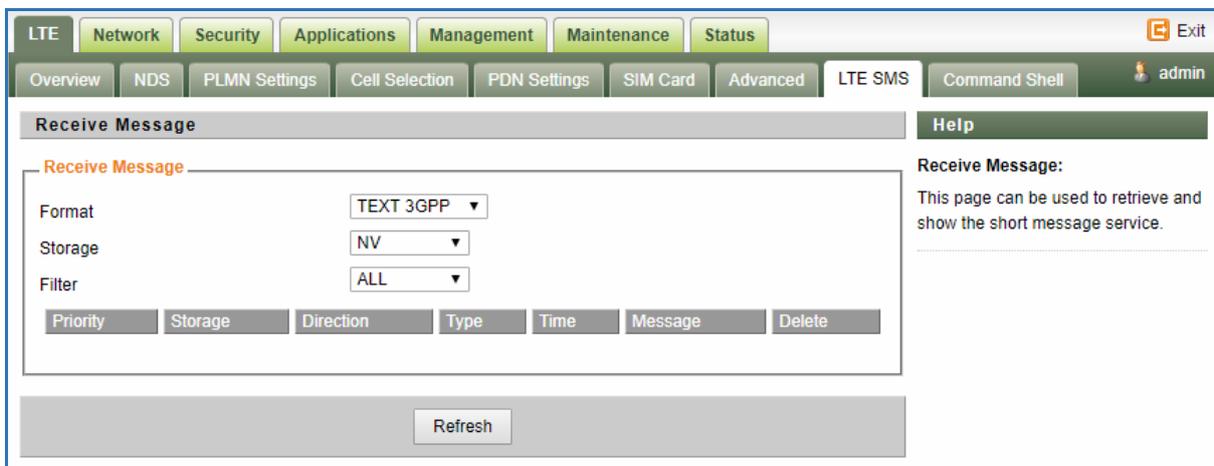
Fast scan will allow you to quickly connect to good cell when they are first found instead of search the best cell. The ZUC encryption support is only required when your core network (EPC) force to use the ZUC encryption for access authentication. The operation mode allows you to select the UE capability for receiving and transmitting. Depending on the hardware implementation, 4x4 MIMO or 2x2 MIMO & CA can be selected for downlink operation. If the RF hardware supports 2TX, then 2Tx operation can be enabled.

In addition, the PSM timer and location service UE settings can also be configured for advanced users. Default settings should be used for normal operation.



■ LTE SMS

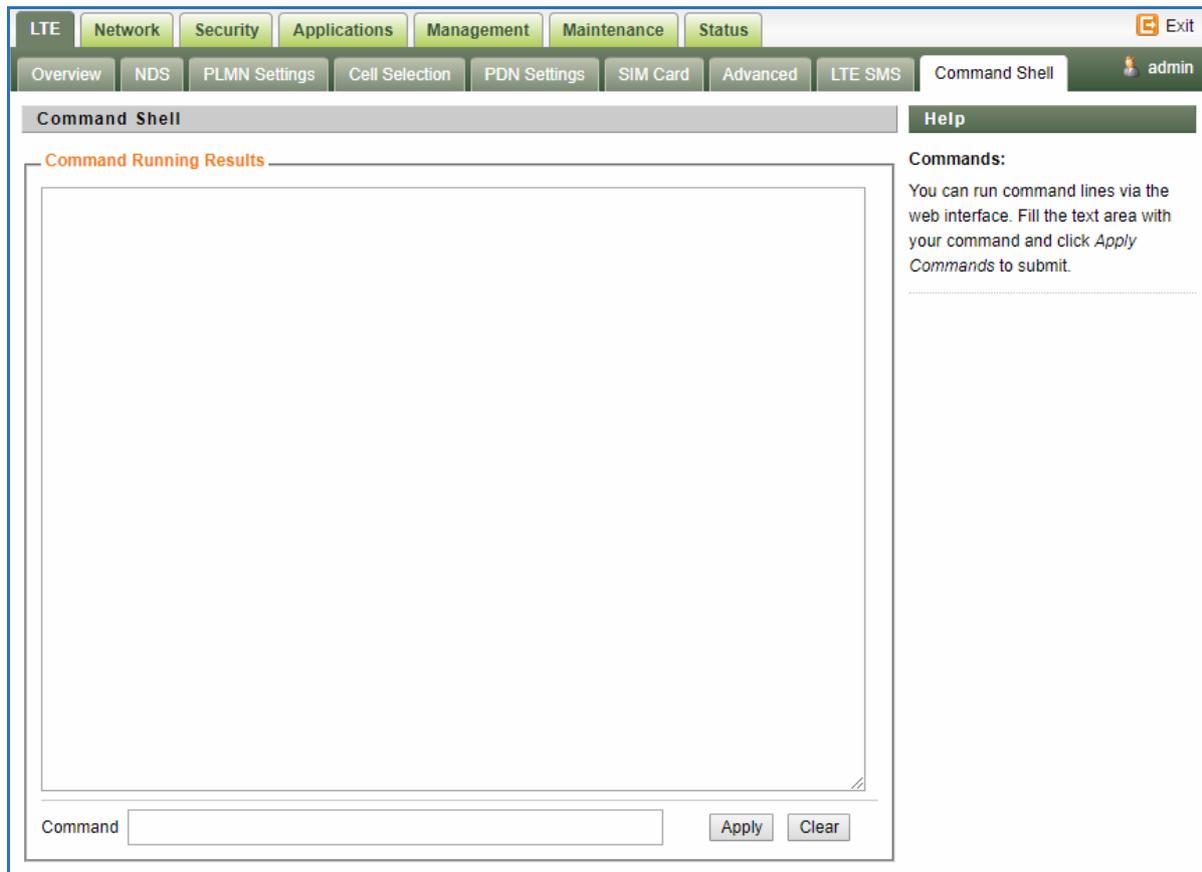
The LTE SMS page allows user to retrieve and display short messages received by the UE device. Message format, storage place and message filter can be configured to screen and archive the messages.



■ Command Shell

The Command Shell is used to run LTE command via the WEB GUI interface. You can type the

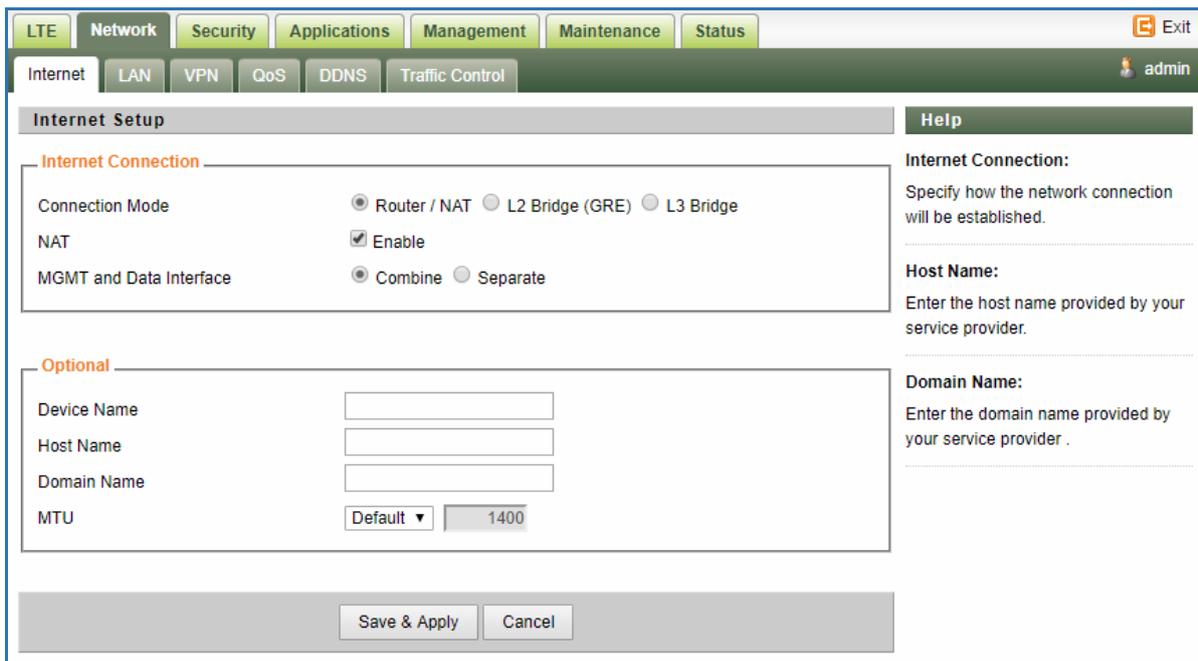
command and click the APPLY button to execute.



5 Network Configuration

■ Internet

This section allows user to configure the CPE operation mode, device name, MTU and etc. The CPE default Operation Mode is Router, and the LAN PC connected to device LAN port will obtain IP address via DHCP server of the device. The default MTU Size is 1500, user can modify the MTU Size if necessary.



Note when setting the connection mode as L2 Bridge or L3 Bridge, there will be a warning window pops up. Remember the management IP address 192.168.0.1 and click the “ok” button.

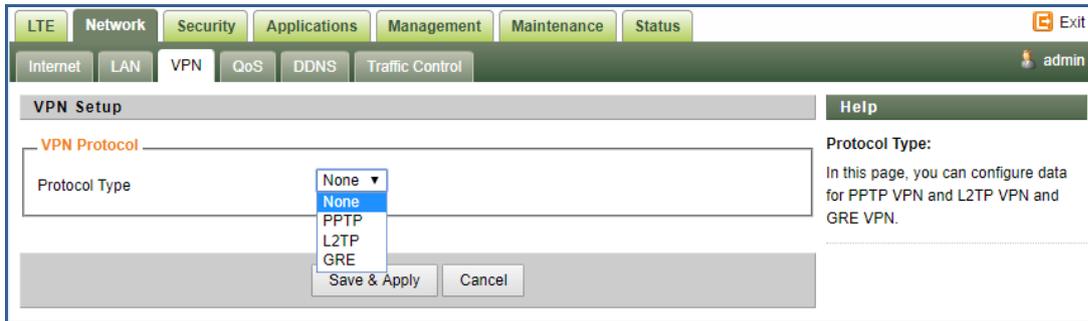
When the user wants to manage the home page again, the PC should be configured a static IP address as 192.168.0.x manual in order to visit the CPE managing page <http://192.168.0.1>.

■ LAN Setting

The LAN setting allows user to specify the device LAN IP, DHCP server setting, Local DNS and etc. When Router mode is selected, the DHCP server should be enabled by default.

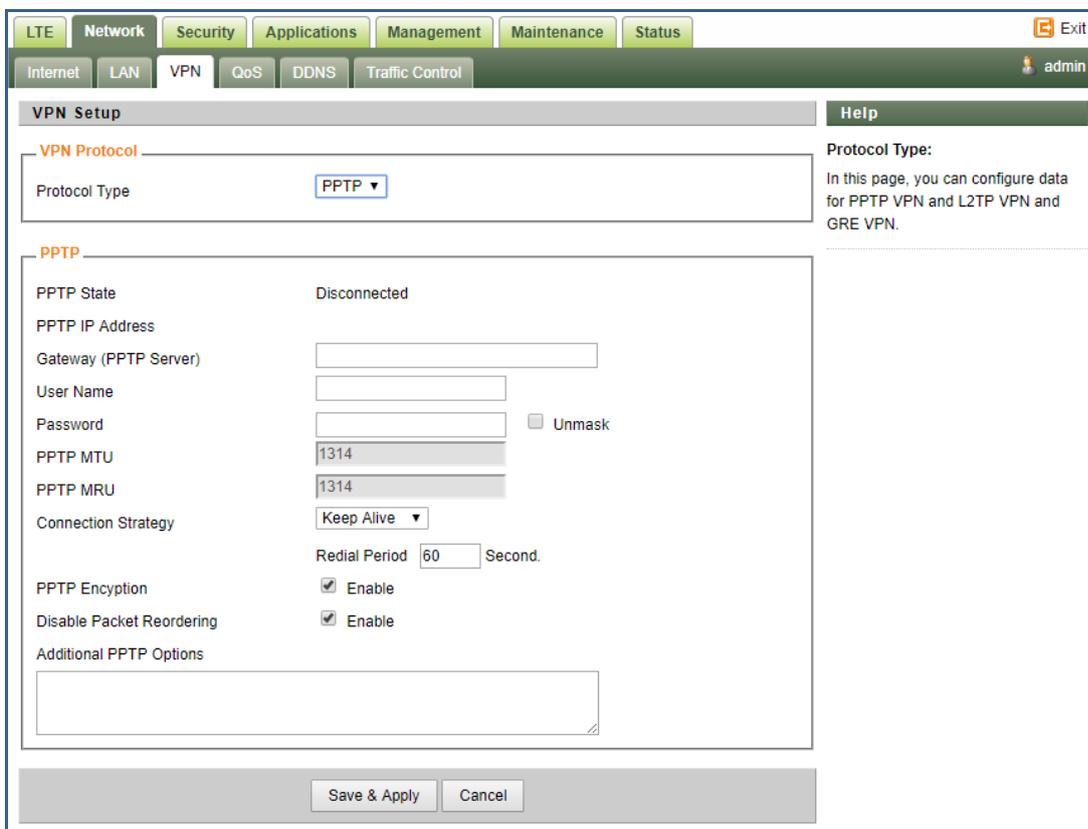
User is advised to leave the default setting unchanged for quick configuration and smooth device operation.

The router mode VPN configuration is shown below.



The screenshot shows the 'VPN Setup' configuration page. The 'VPN Protocol' section has a 'Protocol Type' dropdown menu open, showing options: None, PPTP, L2TP, and GRE. The 'None' option is currently selected. To the right, a 'Protocol Type' help text states: 'In this page, you can configure data for PPTP VPN and L2TP VPN and GRE VPN.' At the bottom, there are 'Save & Apply' and 'Cancel' buttons.

The PPTP configuration under router mode is shown below.



The screenshot shows the 'PPTP' configuration page. The 'Protocol Type' dropdown is set to 'PPTP'. The 'PPTP' section includes the following fields and options:

- PPTP State:** Disconnected
- PPTP IP Address:** (empty field)
- Gateway (PPTP Server):** (empty field)
- User Name:** (empty field)
- Password:** (empty field) with an Unmask option.
- PPTP MTU:** 1314
- PPTP MRU:** 1314
- Connection Strategy:** Keep Alive
- Redial Period:** 60 Second.
- PPTP Encyption:** Enable
- Disable Packet Reordering:** Enable
- Additional PPTP Options:** (empty text area)

At the bottom, there are 'Save & Apply' and 'Cancel' buttons.

The L2TP configuration under router mode is shown as follows.

LTE Network Security Applications Management Maintenance Status Exit
Internet LAN VPN QoS DDNS Traffic Control admin

VPN Setup Help

VPN Protocol

Protocol Type: L2TP

L2TP

L2TP State: Disconnected

L2TP IP Address:

Host Name:

User Name:

Password: Unmask

L2TP Server:

L2TP MTU:

L2TP MRU:

Require CHAP: Yes

Refuse PAP: Yes

Require Authentication: Yes

Connection Strategy: Keep Alive

Redial Period: Second.

Save & Apply Cancel

Protocol Type:
In this page, you can configure the VPN services for PPTP, L2TP and GRE.

The L2 GRE configuration under router mode is shown below.

LTE Network Security Applications Management Maintenance Status Exit
Internet LAN VPN QoS DDNS Traffic Control admin

VPN Setup Help

VPN Protocol

Protocol Type: GRE

GRE

GRE Destination IP Address:

Host IP Address:

Remote IP Address:

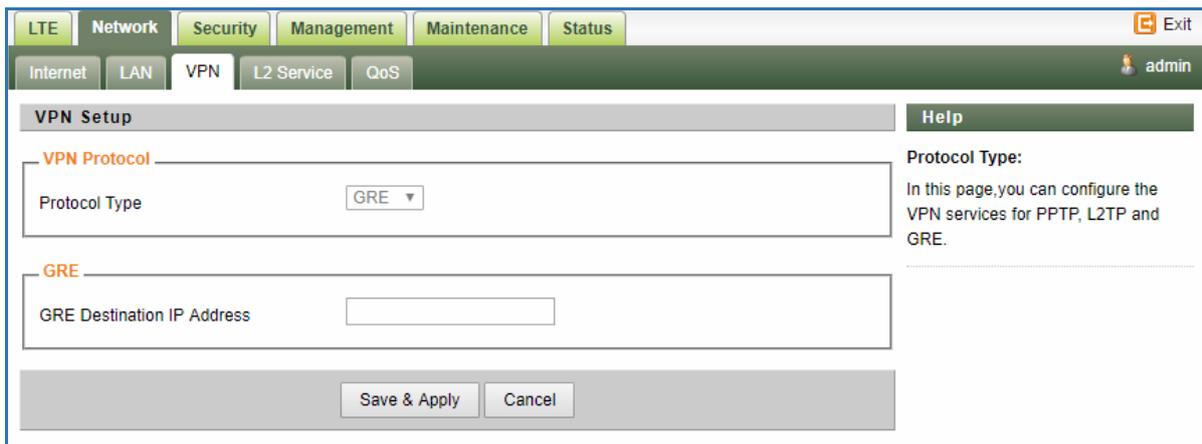
Remote Private IP Address: /

Save & Apply Cancel

Protocol Type:
In this page, you can configure the VPN services for PPTP, L2TP and GRE.

■ VPN Setting Under L2 Bridge Mode

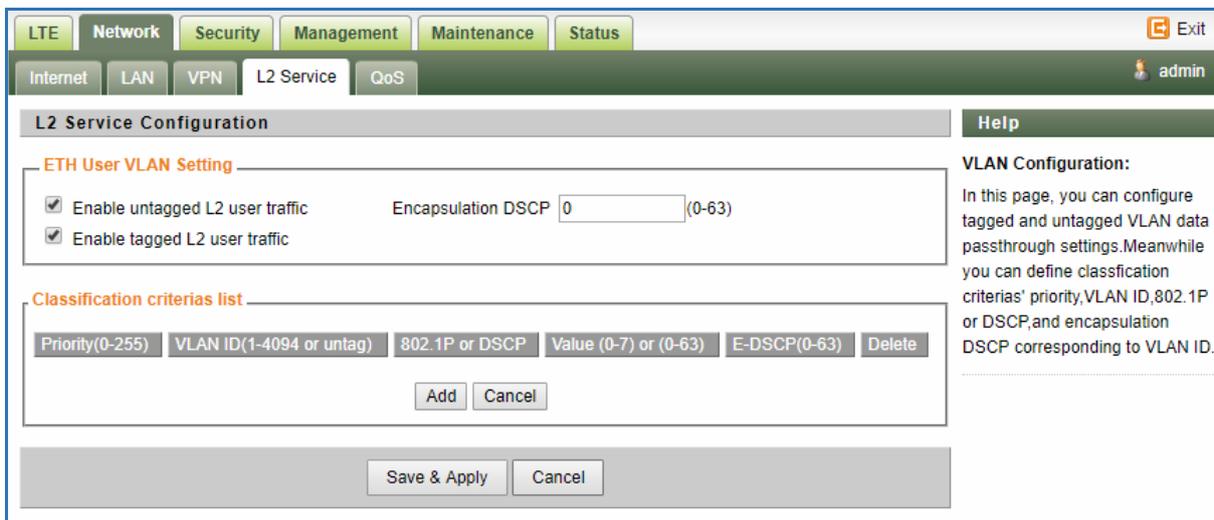
Under the L2 Bridge connection mode, only L2 GRE can be configured as follows.



The screenshot shows the 'VPN Setup' configuration page. At the top, there are navigation tabs: LTE, Network, Security, Management, Maintenance, and Status. Below these are sub-tabs: Internet, LAN, VPN, L2 Service, and QoS. The 'VPN' sub-tab is active. The page title is 'VPN Setup'. On the right, there is a 'Help' section titled 'Protocol Type:' with the text: 'In this page, you can configure the VPN services for PPTP, L2TP and GRE.' The main configuration area includes a 'VPN Protocol' section with a 'Protocol Type' dropdown menu set to 'GRE'. Below this is a 'GRE' section with a 'GRE Destination IP Address' text input field. At the bottom, there are 'Save & Apply' and 'Cancel' buttons.

■ L2 Service Under L2 Bridge Mode

Under the L2 Bridge connection mode, the user can use L2 Service configuration to manage and tag 802.1p or DSCP for different VLAN packets.



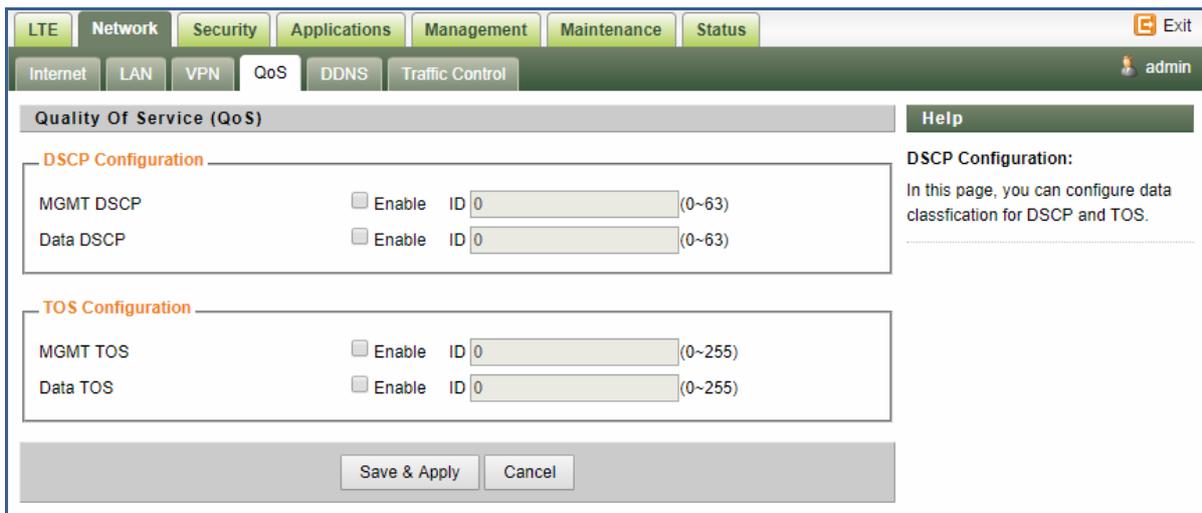
The screenshot shows the 'L2 Service Configuration' page. At the top, there are navigation tabs: LTE, Network, Security, Management, Maintenance, and Status. Below these are sub-tabs: Internet, LAN, VPN, L2 Service, and QoS. The 'L2 Service' sub-tab is active. The page title is 'L2 Service Configuration'. On the right, there is a 'Help' section titled 'VLAN Configuration:' with the text: 'In this page, you can configure tagged and untagged VLAN data passthrough settings. Meanwhile you can define classification criterias' priority, VLAN ID, 802.1P or DSCP, and encapsulation DSCP corresponding to VLAN ID.' The main configuration area includes an 'ETH User VLAN Setting' section with two checked checkboxes: 'Enable untagged L2 user traffic' and 'Enable tagged L2 user traffic'. To the right of these checkboxes is an 'Encapsulation DSCP' input field with the value '0' and '(0-63)' next to it. Below this is a 'Classification criterias list' section with a table of criteria:

Priority(0-255)	VLAN ID(1-4094 or untag)	802.1P or DSCP	Value (0-7) or (0-63)	E-DSCP(0-63)	Delete

Below the table are 'Add' and 'Cancel' buttons. At the bottom of the page, there are 'Save & Apply' and 'Cancel' buttons.

■ QoS Setting

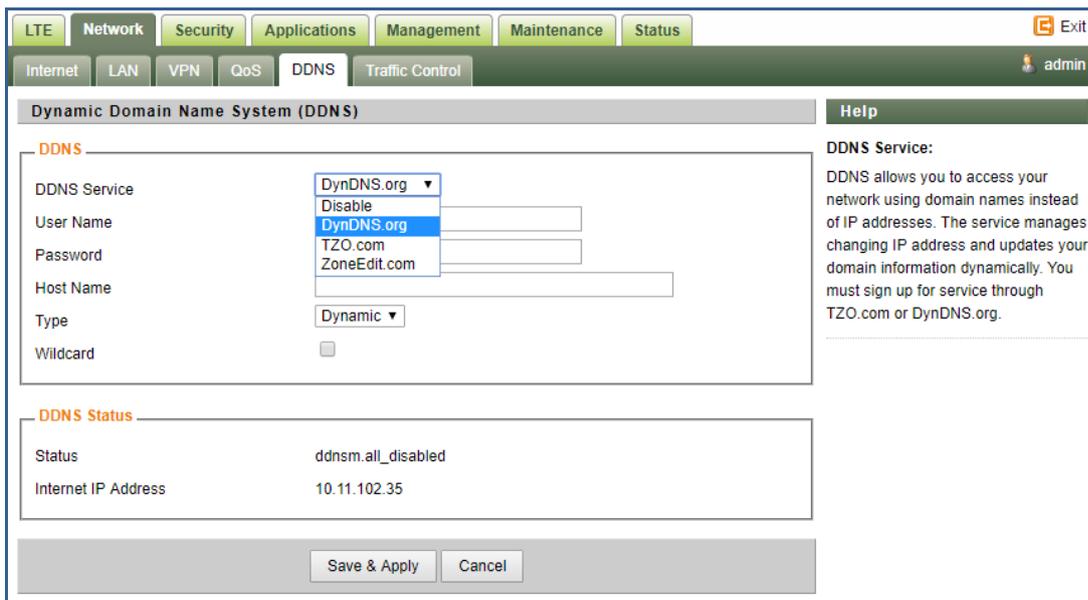
This configuration menu allows user to tag DSCP or TOS value for CPE local data (Management) and LAN port data (Data).



The screenshot shows the 'Quality Of Service (QoS)' configuration page. The navigation menu includes LTE, Network, Security, Applications, Management, Maintenance, and Status. The sub-menu includes Internet, LAN, VPN, QoS, DDNS, and Traffic Control. The page is titled 'Quality Of Service (QoS)' and has a 'Help' button. It contains two main sections: 'DSCP Configuration' and 'TOS Configuration'. Each section has 'MGMT' and 'Data' options, each with an 'Enable' checkbox and an 'ID' input field. The DSCP ID range is (0~63) and the TOS ID range is (0~255). At the bottom, there are 'Save & Apply' and 'Cancel' buttons.

■ DDNS Setting Under Router Mode

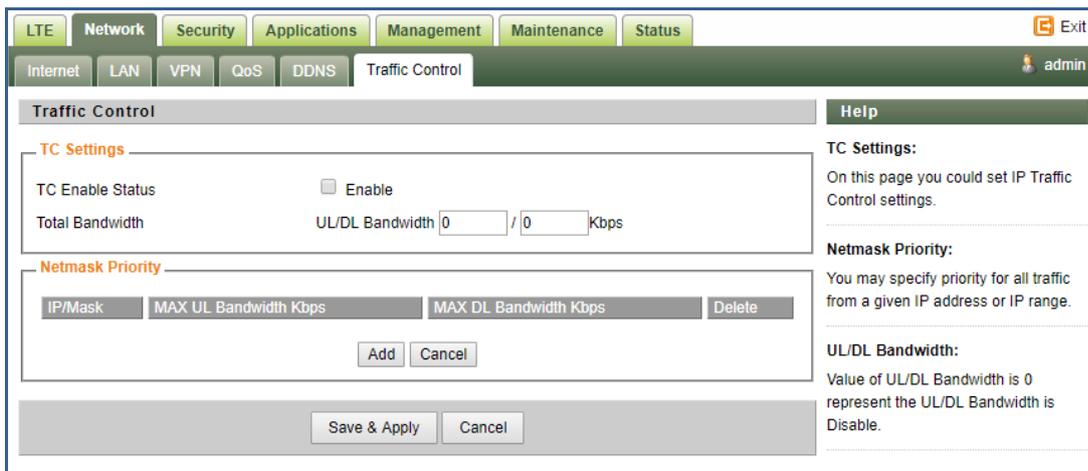
This configuration menu allows user to configure use of different DDNS service for router mode operation.



The screenshot shows the 'Dynamic Domain Name System (DDNS)' configuration page. The navigation menu is the same as in the QoS page. The sub-menu includes Internet, LAN, VPN, QoS, DDNS, and Traffic Control. The page is titled 'Dynamic Domain Name System (DDNS)' and has a 'Help' button. It contains two main sections: 'DDNS' and 'DDNS Status'. The 'DDNS' section has fields for 'DDNS Service' (a dropdown menu with options: DynDNS.org, Disable, DynDNS.org, TZO.com, ZoneEdit.com), 'User Name', 'Password', 'Host Name', 'Type' (a dropdown menu with options: Dynamic), and 'Wildcard' (a checkbox). The 'DDNS Status' section shows 'Status' as 'ddnsm.all_disabled' and 'Internet IP Address' as '10.11.102.35'. At the bottom, there are 'Save & Apply' and 'Cancel' buttons.

■ Traffic Control Setting Under Router Mode

This configuration menu allows user to configure the data priority and allowed bandwidth for LAN data traffic.

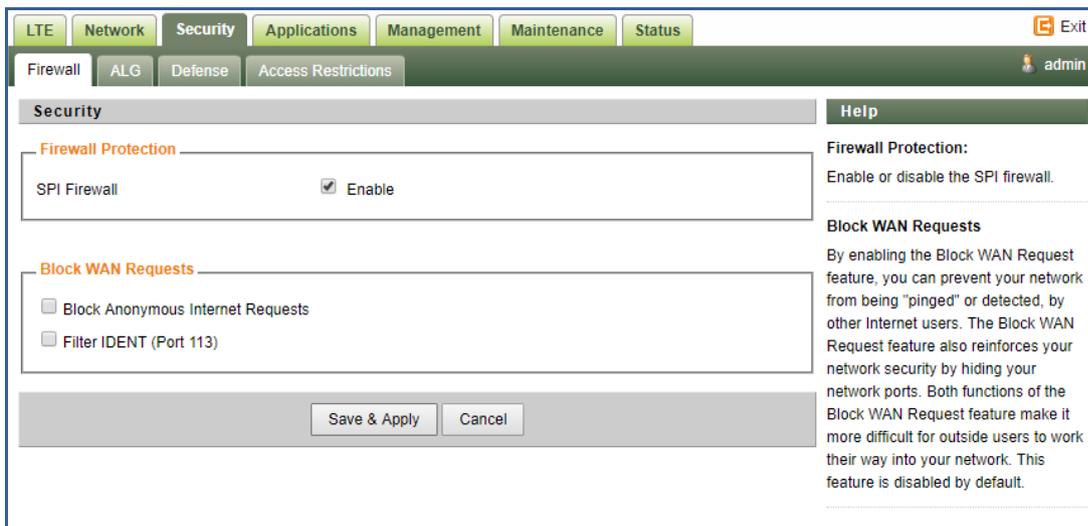


The screenshot shows the 'Traffic Control' configuration page. The top navigation bar includes 'LTE', 'Network', 'Security', 'Applications', 'Management', 'Maintenance', and 'Status'. The 'Network' section is active, with sub-tabs for 'Internet', 'LAN', 'VPN', 'QoS', 'DDNS', and 'Traffic Control'. The 'Traffic Control' sub-tab is selected. The page is titled 'Traffic Control' and has a 'Help' button. The 'TC Settings' section includes a 'TC Enable Status' checkbox (unchecked) and a 'Total Bandwidth' section with 'UL/DL Bandwidth' input fields set to '0 / 0' Kbps. The 'Netmask Priority' section has a table with columns for 'IP/Mask', 'MAX UL Bandwidth Kbps', 'MAX DL Bandwidth Kbps', and 'Delete'. Below the table are 'Add' and 'Cancel' buttons. At the bottom are 'Save & Apply' and 'Cancel' buttons. The right sidebar contains a 'Help' section with the following text: 'TC Settings: On this page you could set IP Traffic Control settings.', 'Netmask Priority: You may specify priority for all traffic from a given IP address or IP range.', and 'UL/DL Bandwidth: Value of UL/DL Bandwidth is 0 represent the UL/DL Bandwidth is Disable.'

6 Security Configuration

■ Firewall

This allows user to configure CPE firewall.



The screenshot shows the 'Firewall Protection' configuration page. The top navigation bar includes 'LTE', 'Network', 'Security', 'Applications', 'Management', 'Maintenance', and 'Status'. The 'Security' section is active, with sub-tabs for 'Firewall', 'ALG', 'Defense', and 'Access Restrictions'. The 'Firewall' sub-tab is selected. The page is titled 'Security' and has a 'Help' button. The 'Firewall Protection' section includes a 'SPI Firewall' checkbox (checked) and an 'Enable' checkbox. The 'Block WAN Requests' section has two checkboxes: 'Block Anonymous Internet Requests' (unchecked) and 'Filter IDENT (Port 113)' (unchecked). At the bottom are 'Save & Apply' and 'Cancel' buttons. The right sidebar contains a 'Help' section with the following text: 'Firewall Protection: Enable or disable the SPI firewall.', 'Block WAN Requests: By enabling the Block WAN Request feature, you can prevent your network from being "pinged" or detected, by other Internet users. The Block WAN Request feature also reinforces your network security by hiding your network ports. Both functions of the Block WAN Request feature make it more difficult for outside users to work their way into your network. This feature is disabled by default.'

■ ALG

This allows user to configure the application level gateways for many common applications.

LTE Network Security Applications Management Maintenance Status Exit
Firewall ALG Defense Access Restrictions admin

Application Layer Gateway (ALG)

ALG Passthrough

IPSec Passthrough	<input checked="" type="checkbox"/>	Enable
L2TP Passthrough	<input checked="" type="checkbox"/>	Enable
PPTP Passthrough	<input checked="" type="checkbox"/>	Enable
FTP Passthrough	<input checked="" type="checkbox"/>	Enable
H323 Passthrough	<input checked="" type="checkbox"/>	Enable
SIP Passthrough	<input checked="" type="checkbox"/>	Enable
RTSP Passthrough	<input checked="" type="checkbox"/>	Enable

Help

ALG Passthrough:
 You may choose to enable PPTP, FTP,H323 and so on passthrough to allow your network devices to communicate via ALG.

■ Defense

This allows user to configure defense policy for the LTE and local LAN interface to prevent hostile attack.

LTE Network Security Applications Management Maintenance Status Exit
Firewall ALG Defense Access Restrictions admin

Attack Defense

Attack Defense Enable

Defense

Defense Area WAN

Scanning Defense

<input type="checkbox"/> IP Scanning	Threshold: <input type="text" value="100"/>	PPS
<input type="checkbox"/> Port Scanning	Threshold: <input type="text" value="100"/>	PPS
<input type="checkbox"/> IP Cheat		

DoS Defense

<input type="checkbox"/> ICMP Flood	Threshold: <input type="text" value="100"/>	PPS
<input type="checkbox"/> UDP Flood	Threshold: <input type="text" value="1000"/>	PPS
<input type="checkbox"/> SYN Flood	Threshold: <input type="text" value="100"/>	PPS
<input type="checkbox"/> Land Attack		
<input type="checkbox"/> WinNuke		

Dubious Packet Protect

- Large ICMP Packet(>1024 bytes)
- TCP Packet Without Any Flag
- TCP Packet With SYN And FIN Flag
- TCP Packet With FIN No ACK Flag

IP Options Protect

- IP Timestamp Option
- IP Record Route Option
- IP Loose Source Route Option
- IP Strict Source Route Option
- Invalid IP Options

Help

Regional settings, you can select LAN or WAN area, while LAN area is selected, the targeted packets are from the LAN port, while WAN area is selected, the targeted packets are from the WAN port.

■ Access Restrictions

This allows user to define access policy for LAN devices. It can support URL blocking as well.

LTE Network **Security** Applications Management Maintenance Status
Exit

Firewall ALG Defense **Access Restrictions**
admin

Access Restrictions Help

Filter Access Enable

Access Policy

Policy: 1 Delete Summary

Status: Enable Disable

Policy Name:

PCs: Edit List of PCs

Deny Internet access during selected days and hours.

Allow

Days:

Everyday

Week: Sun Mon Tue Wed Thu Fri Sat

Times:

24 Hours

From: 12:00 AM To: 12:00 AM

Blocked Services

Catch all P2P Protocols

P2P Protocol1: None ~

P2P Protocol2: None ~

P2P Protocol3: None ~

P2P Protocol4: None ~

Add/Edit Service

Website Blocking by URL Address

Access Restrictions Policy:
You may define up to 10 access policies. Click *Delete* to delete a policy or *Summary* to see a summary of the policy.

Status:
Enable or disable a policy.

Policy Name:
You may assign a name to your policy.

Days:
Choose the day of the week you would like your policy to be applied.

Times:
Enter the time of the day you would like your policy to apply.

Blocked Services:
You may choose to block access to certain services. Click *Add/Edit Service* to modify these settings.

Website Blocking by URL:
You can block access to certain websites by entering their URL.

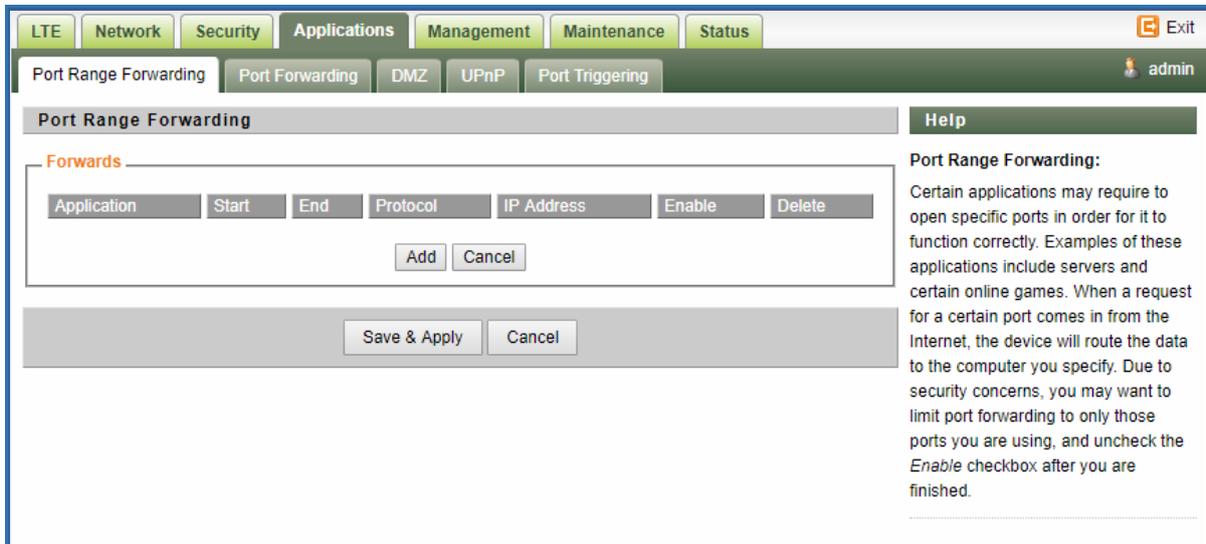
Website Blocking by Keyword:
You can block access to certain website by the keywords contained in their webpage.

Save & Apply Cancel

7 Applications Configuration

■ Port Range Forwarding

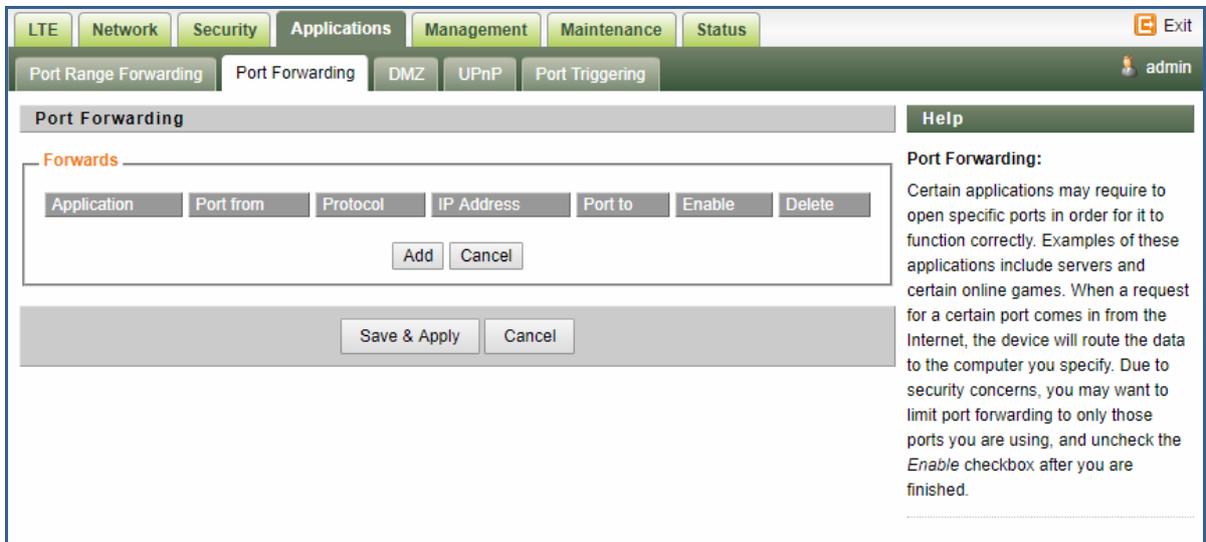
This allows user to configure the port range forwarding rules for the CPE in router mode.



The screenshot shows the 'Port Range Forwarding' configuration page. The navigation menu includes LTE, Network, Security, Applications, Management, Maintenance, and Status. The 'Applications' menu is expanded, showing 'Port Range Forwarding', 'Port Forwarding', 'DMZ', 'UPnP', and 'Port Triggering'. The 'Port Range Forwarding' sub-menu is selected. The main content area has a title bar 'Port Range Forwarding' and a 'Help' button. Below the title bar is a table with columns: Application, Start, End, Protocol, IP Address, Enable, and Delete. There are 'Add' and 'Cancel' buttons below the table. At the bottom of the main content area are 'Save & Apply' and 'Cancel' buttons. A help text box on the right explains that certain applications may require open ports and provides instructions on how to configure and enable the forwarding rules.

■ Port Forwarding

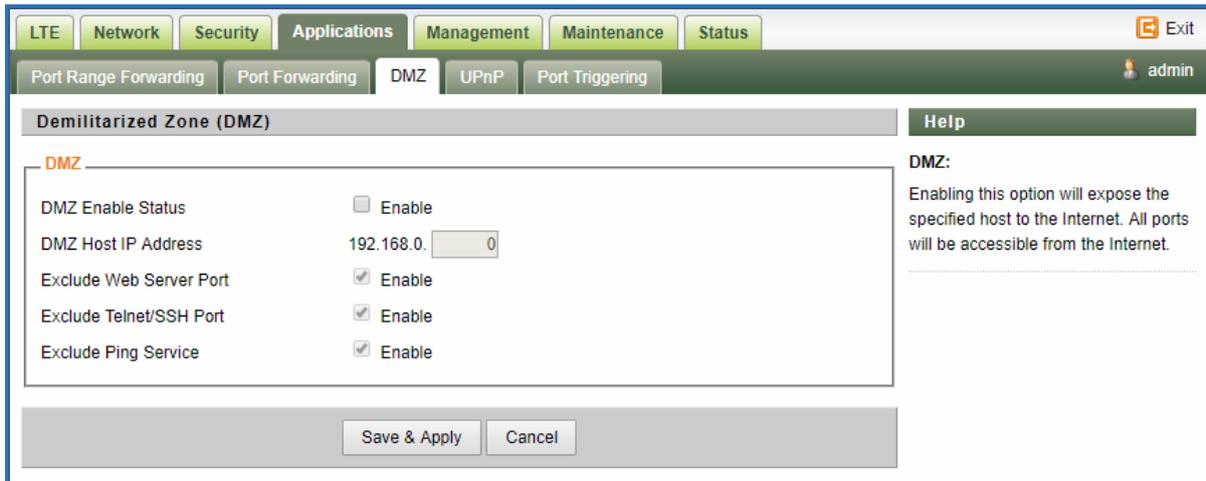
This menu allows user to configure the port forwarding rules for the CPE in router mode.



The screenshot shows the 'Port Forwarding' configuration page. The navigation menu is the same as in the previous screenshot. The 'Port Forwarding' sub-menu is selected. The main content area has a title bar 'Port Forwarding' and a 'Help' button. Below the title bar is a table with columns: Application, Port from, Protocol, IP Address, Port to, Enable, and Delete. There are 'Add' and 'Cancel' buttons below the table. At the bottom of the main content area are 'Save & Apply' and 'Cancel' buttons. A help text box on the right explains that certain applications may require open ports and provides instructions on how to configure and enable the forwarding rules.

■ DMZ

This menu allows user to configure the DMZ setting for CPE in router mode. Web server, Telnet/SSH and Ping Service port can be exempted from DMZ mapping if required. By enabling DMZ option will make the specified local LAN host (DMZ IP) exposed to Internet.



The screenshot shows the 'Demilitarized Zone (DMZ)' configuration page. The navigation tabs at the top include LTE, Network, Security, Applications, Management, Maintenance, and Status. The sub-navigation tabs are Port Range Forwarding, Port Forwarding, DMZ, UPnP, and Port Triggering. The main content area is titled 'Demilitarized Zone (DMZ)' and contains the following settings:

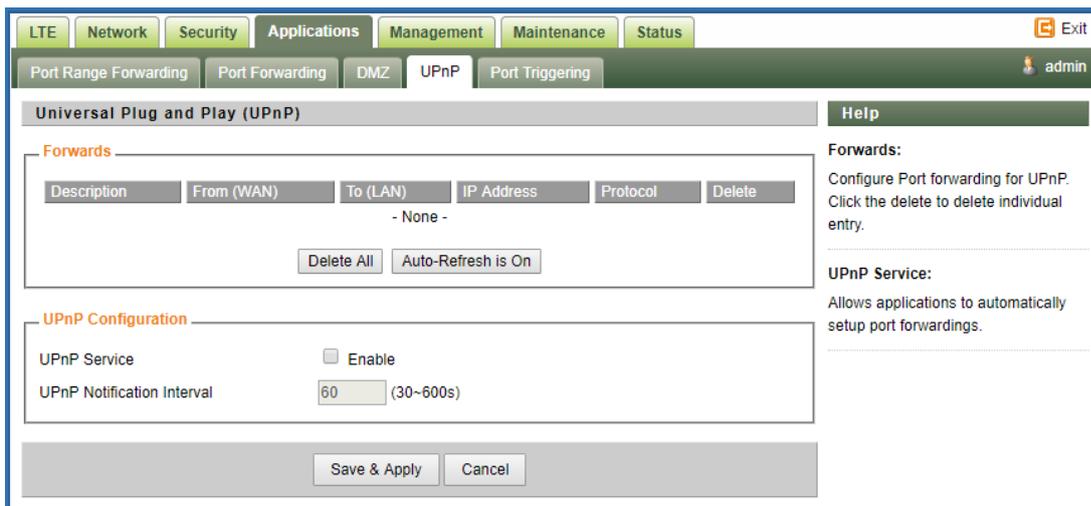
- DMZ Enable Status: Enable
- DMZ Host IP Address: 192.168.0.
- Exclude Web Server Port: Enable
- Exclude Telnet/SSH Port: Enable
- Exclude Ping Service: Enable

At the bottom of the configuration area are 'Save & Apply' and 'Cancel' buttons. A 'Help' section on the right provides additional information:

DMZ:
Enabling this option will expose the specified host to the Internet. All ports will be accessible from the Internet.

■ UPnP

This menu allows user to configure the uPnP application for on-demand “DMZ” support. The current forwarding rules created can be viewed and cleared if required.



The screenshot shows the 'Universal Plug and Play (UPnP)' configuration page. The navigation tabs at the top are the same as in the DMZ page. The sub-navigation tabs are Port Range Forwarding, Port Forwarding, DMZ, UPnP, and Port Triggering. The main content area is titled 'Universal Plug and Play (UPnP)' and contains the following sections:

Forwards:

Description	From (WAN)	To (LAN)	IP Address	Protocol	Delete
- None -					

Buttons: Delete All, Auto-Refresh is On

UPnP Configuration:

- UPnP Service: Enable
- UPnP Notification Interval: (30-600s)

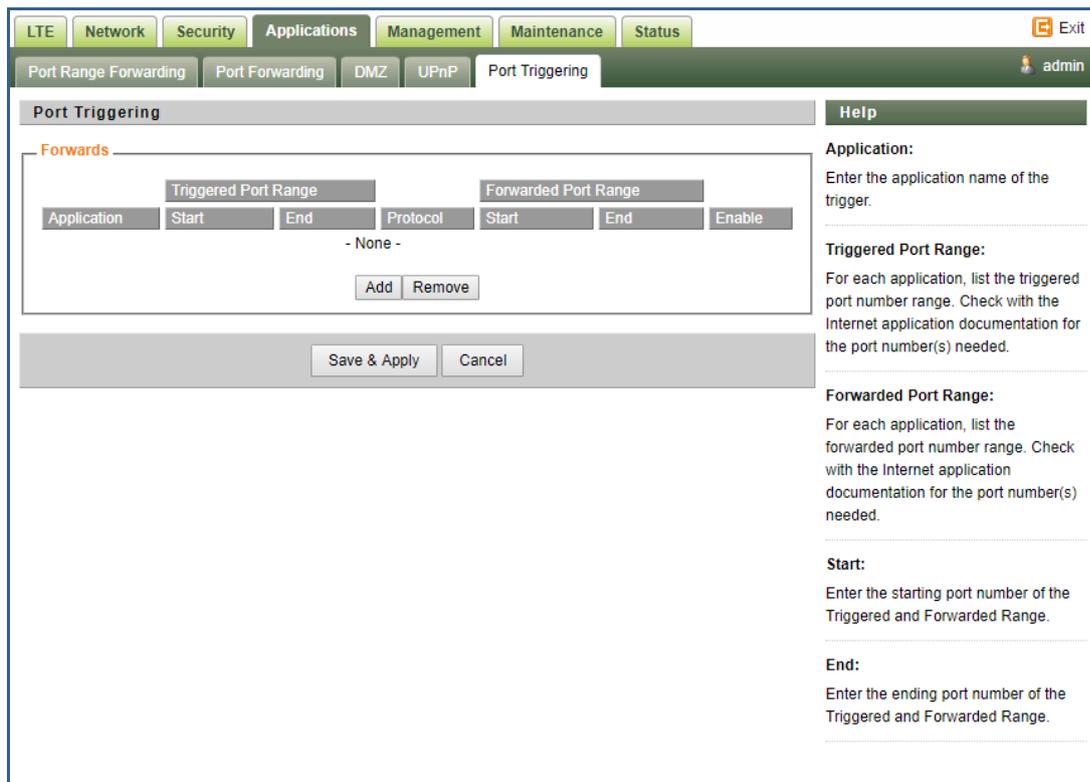
At the bottom of the configuration area are 'Save & Apply' and 'Cancel' buttons. A 'Help' section on the right provides additional information:

Forwards:
Configure Port forwarding for UPnP. Click the delete to delete individual entry.

UPnP Service:
Allows applications to automatically setup port forwardings.

■ Port Triggering

This menu allows user to configure forward certain port range to different port range for specific protocol.



Port Triggering

Forwards

Application	Triggered Port Range		Protocol	Forwarded Port Range		Enable
	Start	End		Start	End	
- None -						

Help

Application:
Enter the application name of the trigger.

Triggered Port Range:
For each application, list the triggered port number range. Check with the Internet application documentation for the port number(s) needed.

Forwarded Port Range:
For each application, list the forwarded port number range. Check with the Internet application documentation for the port number(s) needed.

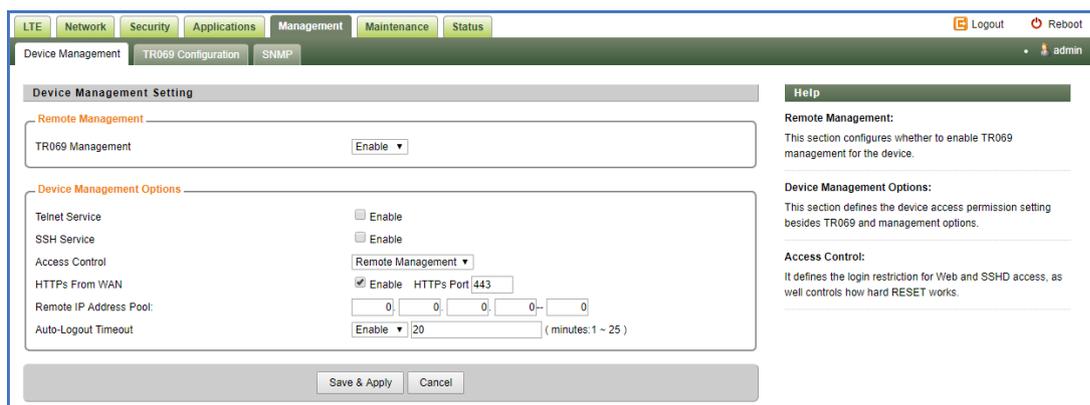
Start:
Enter the starting port number of the Triggered and Forwarded Range.

End:
Enter the ending port number of the Triggered and Forwarded Range.

8 Management

■ Device Management

The menu allows user to configure device management mode and various control. Telnet, SSH, and HTTPs can be enabled or disabled via configuration. Auto WEB GUI logout can also be configured.



Device Management Setting

Remote Management

TR069 Management

Device Management Options

Telnet Service Enable

SSH Service Enable

Access Control

HTTPs From WAN Enable HTTPs Port

Remote IP Address Pool: -

Auto-Logout Timeout (minutes:1 ~ 25)

Help

Remote Management:
This section configures whether to enable TR069 management for the device.

Device Management Options:
This section defines the device access permission setting besides TR069 and management options.

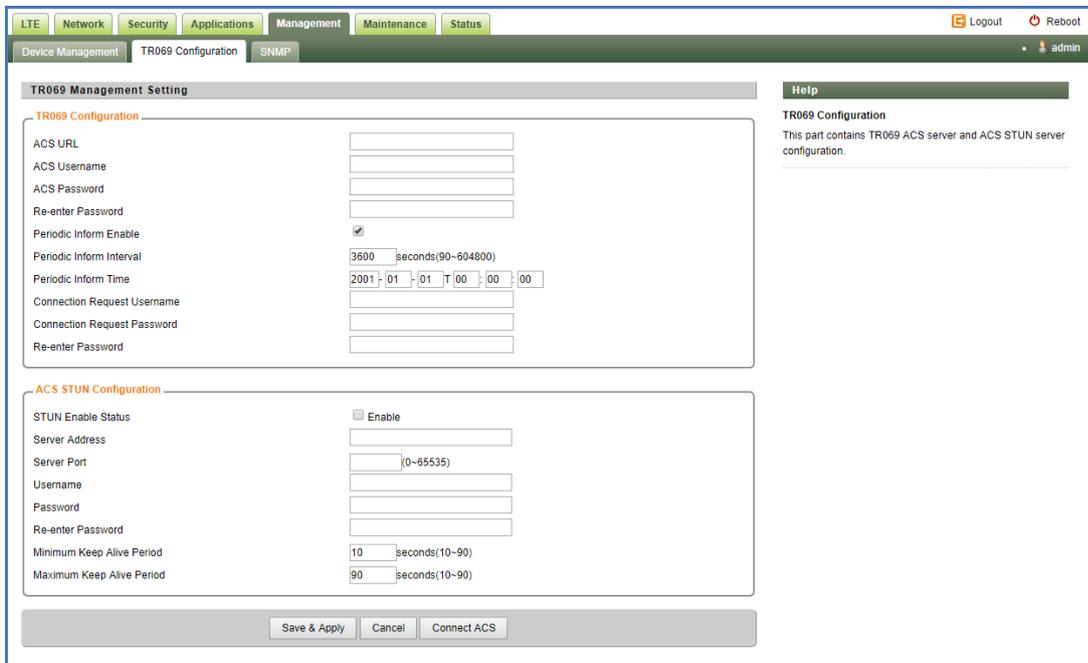
Access Control:
It defines the login restriction for Web and SSHD access, as well controls how hard RESET works.

When Telnet is enabled, user can telnet to CPE according to the below steps:

- cmd shell and run command:
- telnet 192.168.0.1
- Login: root
- Password: root123

■ TR069

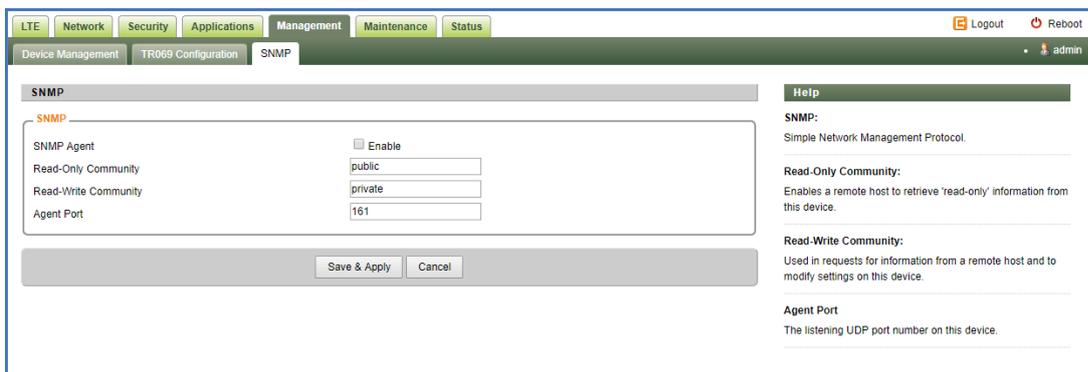
The menu allows user to configure the necessary setting for TR069 management of the CPE device.



The screenshot shows the 'TR069 Management Setting' page. The top navigation bar includes 'LTE', 'Network', 'Security', 'Applications', 'Management', 'Maintenance', and 'Status'. The 'Management' tab is active, and the sub-menu shows 'Device Management', 'TR069 Configuration', and 'SNMP'. The 'TR069 Configuration' sub-tab is selected. The page is divided into two main sections: 'TR069 Configuration' and 'ACS STUN Configuration'. The 'TR069 Configuration' section includes fields for ACS URL, ACS Username, ACS Password, Re-enter Password, Periodic Inform Enable (checked), Periodic Inform Interval (3600 seconds), Periodic Inform Time (2001-01-01T00:00:00), Connection Request Username, Connection Request Password, and Re-enter Password. The 'ACS STUN Configuration' section includes fields for STUN Enable Status (unchecked), Server Address, Server Port (0-65535), Username, Password, Re-enter Password, Minimum Keep Alive Period (10 seconds), and Maximum Keep Alive Period (90 seconds). At the bottom, there are buttons for 'Save & Apply', 'Cancel', and 'Connect ACS'. A 'Help' sidebar on the right provides information about TR069 Configuration, stating it contains TR069 ACS server and ACS STUN server configuration.

■ SNMP

The menu allows user to configure the SNMP setting.

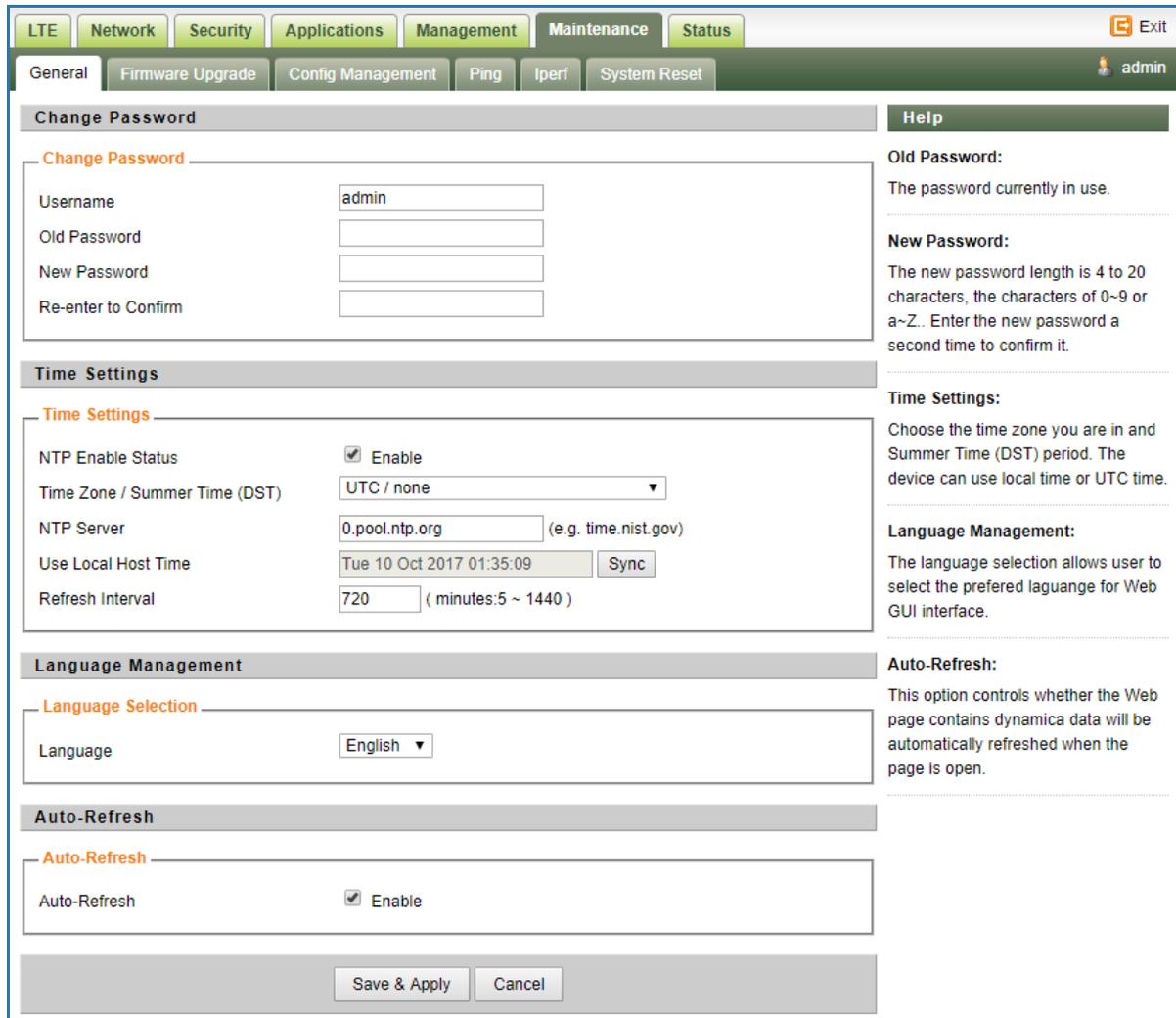


The screenshot shows the 'SNMP' configuration page. The top navigation bar is the same as in the previous screenshot. The 'Management' tab is active, and the sub-menu shows 'Device Management', 'TR069 Configuration', and 'SNMP'. The 'SNMP' sub-tab is selected. The page is divided into two main sections: 'SNMP' and 'Help'. The 'SNMP' section includes fields for SNMP Agent (unchecked), Read-Only Community (public), Read-Write Community (private), and Agent Port (161). At the bottom, there are buttons for 'Save & Apply' and 'Cancel'. The 'Help' sidebar on the right provides information about SNMP, stating it is Simple Network Management Protocol. It also defines 'Read-Only Community' as enabling a remote host to retrieve 'read-only' information and 'Read-Write Community' as being used in requests for information from a remote host to modify settings. The 'Agent Port' is defined as the listening UDP port number on this device.

9 Maintenance

■ General

The menu allows user to configure the WEB GUI login password, time and language setting.



Change Password

Change Password

Username: admin

Old Password: []

New Password: []

Re-enter to Confirm: []

Time Settings

Time Settings

NTP Enable Status: Enable

Time Zone / Summer Time (DST): UTC / none

NTP Server: 0.pool.ntp.org (e.g. time.nist.gov)

Use Local Host Time: Tue 10 Oct 2017 01:35:09 Sync

Refresh Interval: 720 (minutes:5 ~ 1440)

Language Management

Language Selection

Language: English

Auto-Refresh

Auto-Refresh: Enable

Save & Apply Cancel

Help

Old Password:
The password currently in use.

New Password:
The new password length is 4 to 20 characters, the characters of 0-9 or a-Z.. Enter the new password a second time to confirm it.

Time Settings:
Choose the time zone you are in and Summer Time (DST) period. The device can use local time or UTC time.

Language Management:
The language selection allows user to select the preferred language for Web GUI interface.

Auto-Refresh:
This option controls whether the Web page contains dynamic data will be automatically refreshed when the page is open.

■ Firmware Upgrade

This menu allows user to perform firmware upgrade via WEB GUI with option to reset to factory setting. It can also configure the remote upgrade using FTP, TFTP or HTTP.

LTE Network Security Applications Management Maintenance Status Exit

General Firmware Upgrade Config Management Ping Iperf System Reset admin

Firmware Management

Local Firmware Upgrade

Reset to defaults after upgrade No Reset Reset to Factory Defaults

Please select a file to upgrade No file chosen

Firmware Rollback

Current Firmware Version: V1.2.0 PACK 0 (Ver.645) Build on: Jun 6 2017

Rollback Firmware Version: V1.2.0 PACK 0 (Ver.645) Build on: Jun 6 2017

Remote Firmware Upgrade

Update Method

Help

Local Firmware Upgrade:
Click on the *Browse...* button to select the firmware file to be uploaded to the device.

Click the *Upgrade* button to begin the upgrade process which must not be interrupted.

Remote Firmware Upgrade:
You need to fill in the connection configs of HTTP,FTP or TFTP server.

Click the *Upgrade* button to begin the upgrade process which must not be interrupted.

Upgrade:
Link with eNB is reached in less than 5 minutes since reboot after firmware flashing, and the link is stable during 1 minute, then after 1 minute of link CPE will set the running version as Main automatically

■ Config Management

This menu allows user to backup or restore device configuration file.

LTE Network Security Applications Management Maintenance Status Exit

General Firmware Upgrade Config Management Ping Iperf System Reset admin

Backup Configuration

Backup Settings

Click the "Backup" button to download the configuration backup file to your computer.

Restore Configuration

Restore Settings

Please select a file to restore No file chosen

WARNING

Only upload files backed up using this firmware and from the same model of device.
Do not upload any files that were not created by this interface!

Help

Backup Settings:
You may backup your current configuration in case you need to reset the device back to its factory default settings.

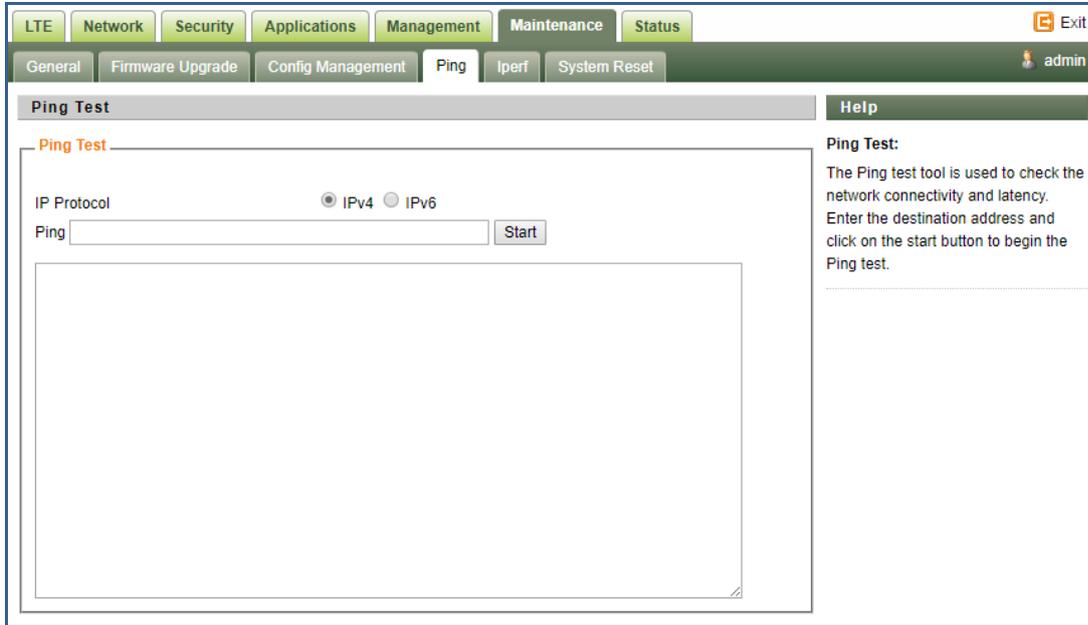
Click the *Backup* button to backup your current configuration.

Restore Settings:
Click the *Browse...* button to browse for a configuration file that is currently saved on your PC.

Click the *Restore* button to overwrite all current configurations with the ones in the configuration file.

■ Ping

This menu allows user to perform PING tests using WEB GUI interface. Both IPv4 and IPv6 can be supported.

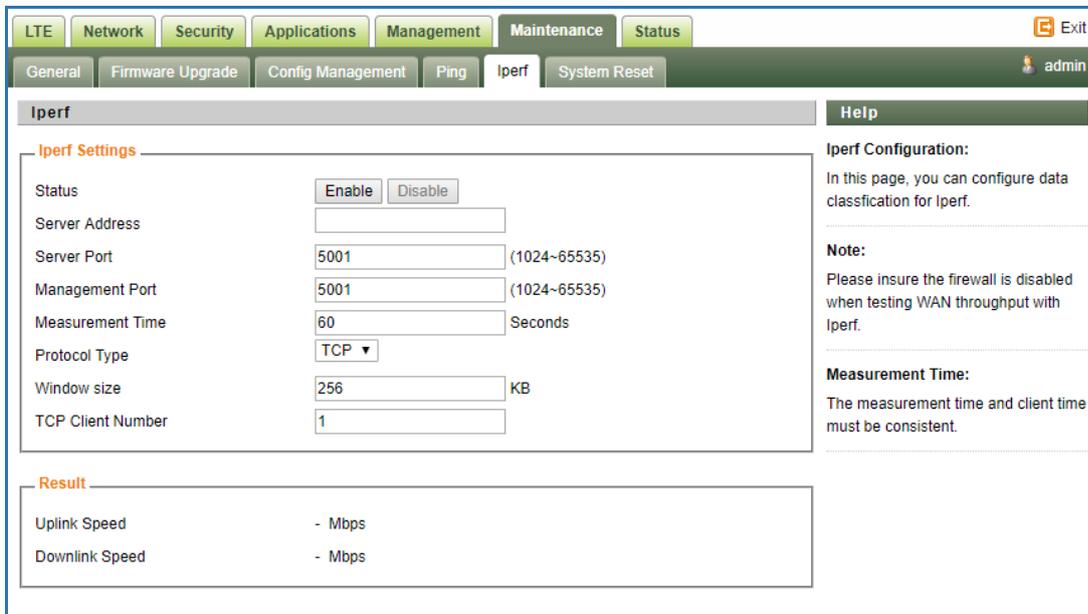


The screenshot shows the 'Ping Test' web interface. At the top, there are navigation tabs: LTE, Network, Security, Applications, Management, Maintenance, and Status. Below these are sub-tabs: General, Firmware Upgrade, Config Management, Ping, Iperf, and System Reset. The 'Ping' sub-tab is active. The main content area is titled 'Ping Test' and contains a form with the following elements:

- IP Protocol:** Radio buttons for IPv4 (selected) and IPv6.
- Ping:** A text input field for the destination address.
- Start:** A button to initiate the ping test.
- Help:** A sidebar on the right with the title 'Ping Test:' and the text: 'The Ping test tool is used to check the network connectivity and latency. Enter the destination address and click on the start button to begin the Ping test.'

■ Iperf

This menu allows user to configure iPerf testing using WEB GUI interface. Both TCP and UDP tests can be supported. Remote iPerf server is required to conduct the tests.

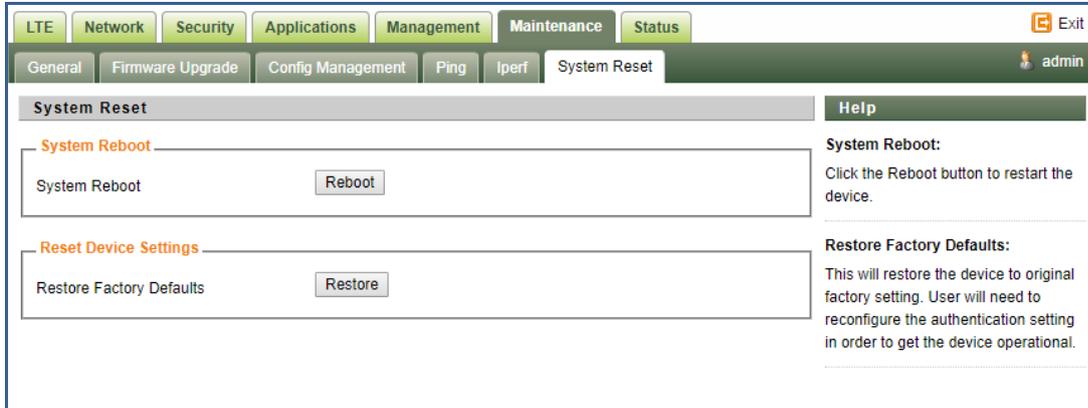


The screenshot shows the 'Iperf' web interface. At the top, there are navigation tabs: LTE, Network, Security, Applications, Management, Maintenance, and Status. Below these are sub-tabs: General, Firmware Upgrade, Config Management, Ping, Iperf, and System Reset. The 'Iperf' sub-tab is active. The main content area is titled 'Iperf' and contains the following sections:

- Iperf Settings:** A form with the following fields:
 - Status:** 'Enable' (selected) and 'Disable' buttons.
 - Server Address:** A text input field.
 - Server Port:** A text input field with '5001' and '(1024~65535)'.
 - Management Port:** A text input field with '5001' and '(1024~65535)'.
 - Measurement Time:** A text input field with '60' and 'Seconds'.
 - Protocol Type:** A dropdown menu with 'TCP' selected.
 - Window size:** A text input field with '256' and 'KB'.
 - TCP Client Number:** A text input field with '1'.
- Help:** A sidebar on the right with the title 'Iperf Configuration:' and the text: 'In this page, you can configure data classification for Iperf.' Below this is a 'Note:' section: 'Please insure the firewall is disabled when testing WAN throughput with Iperf.' and a 'Measurement Time:' section: 'The measurement time and client time must be consistent.'
- Result:** A section at the bottom with two rows:
 - Uplink Speed:** - Mbps
 - Downlink Speed:** - Mbps

■ System Reset

This menu allows user to reboot the device or restore the device to factory defaults. Special care needs to be taken when restoring factory defaults.

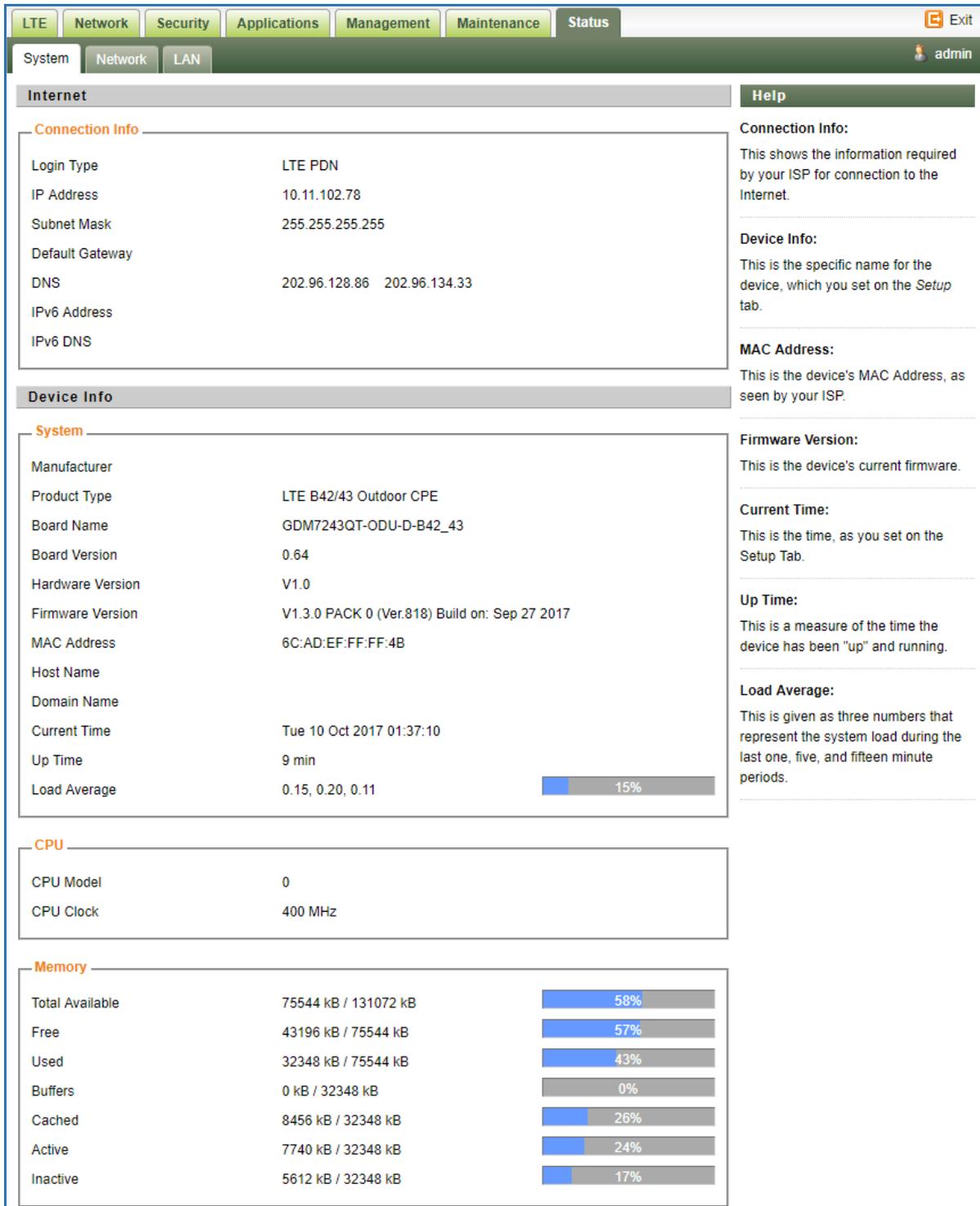


The screenshot displays a web-based configuration interface for a device. At the top, there is a navigation menu with tabs for LTE, Network, Security, Applications, Management, Maintenance, and Status. Below this, a secondary menu includes General, Firmware Upgrade, Config Management, Ping, Iperf, and System Reset. The 'System Reset' tab is active, showing two main sections: 'System Reboot' and 'Reset Device Settings'. The 'System Reboot' section contains a 'System Reboot' label and a 'Reboot' button. The 'Reset Device Settings' section contains a 'Restore Factory Defaults' label and a 'Restore' button. On the right side, a 'Help' section provides instructions: 'System Reboot: Click the Reboot button to restart the device.' and 'Restore Factory Defaults: This will restore the device to original factory setting. User will need to reconfigure the authentication setting in order to get the device operational.'

10 Status

■ System

The menu shows the general system info of the CPE device. It includes connection, system, CPE and memory usage information.



The screenshot displays the 'Status' page of the JATON TEC device. The page is divided into several sections: Internet, Device Info, CPU, and Memory. The 'Internet' section shows connection details like IP address and DNS. The 'Device Info' section provides system details such as manufacturer, product type, and firmware version. The 'CPU' section shows the CPU model and clock speed. The 'Memory' section displays a table of memory usage with progress bars.

Section	Parameter	Value	Percentage
Internet	Login Type	LTE PDN	
	IP Address	10.11.102.78	
	Subnet Mask	255.255.255.255	
	Default Gateway		
	DNS	202.96.128.86 202.96.134.33	
	IPv6 Address		
	IPv6 DNS		
Device Info	Manufacturer		
	Product Type	LTE B42/43 Outdoor CPE	
	Board Name	GDM7243QT-ODU-D-B42_43	
	Board Version	0.64	
	Hardware Version	V1.0	
	Firmware Version	V1.3.0 PACK 0 (Ver.818) Build on: Sep 27 2017	
	MAC Address	6C:AD:EF:FF:FF:4B	
	Host Name		
	Domain Name		
	Current Time	Tue 10 Oct 2017 01:37:10	
	Up Time	9 min	
	Load Average	0.15, 0.20, 0.11	15%
	CPU	CPU Model	0
CPU Clock		400 MHz	
Memory	Total Available	75544 kB / 131072 kB	58%
	Free	43196 kB / 75544 kB	57%
	Used	32348 kB / 75544 kB	43%
	Buffers	0 kB / 32348 kB	0%
	Cached	8456 kB / 32348 kB	26%
	Active	7740 kB / 32348 kB	24%
	Inactive	5612 kB / 32348 kB	17%

■ Network

The menu shows the general network status that includes PDN interface info, device routing info, and ARP table.

LTE
Network
Security
Applications
Management
Maintenance
Status

Exit

System
Network
LAN

admin

Network Status

PDN Info

APN	internet
IP Address	10.11.102.78
DNS	202.96.128.86 202.96.134.33
IPv6 Address	
IPv6 DNS	

Route

Destination	Default Gateway	Genmask	Flags	Metric	Ref	Use	Iface
default	*	0.0.0.0	U	0	0	0	lte0pdn0
10.0.0.177	*	255.255.255.255	UH	0	0	0	lte0pdn0
10.1.1.0	*	255.255.255.0	U	0	0	0	br0
127.0.0.0	*	255.0.0.0	U	0	0	0	lo
192.168.0.0	*	255.255.255.0	U	0	0	0	br0

ARP

IP Address	HW type	Flags	HW Address	Mask	Device
192.168.0.71	0x1	0x2	ac:a2:13:6a:12:09	*	br0

Help

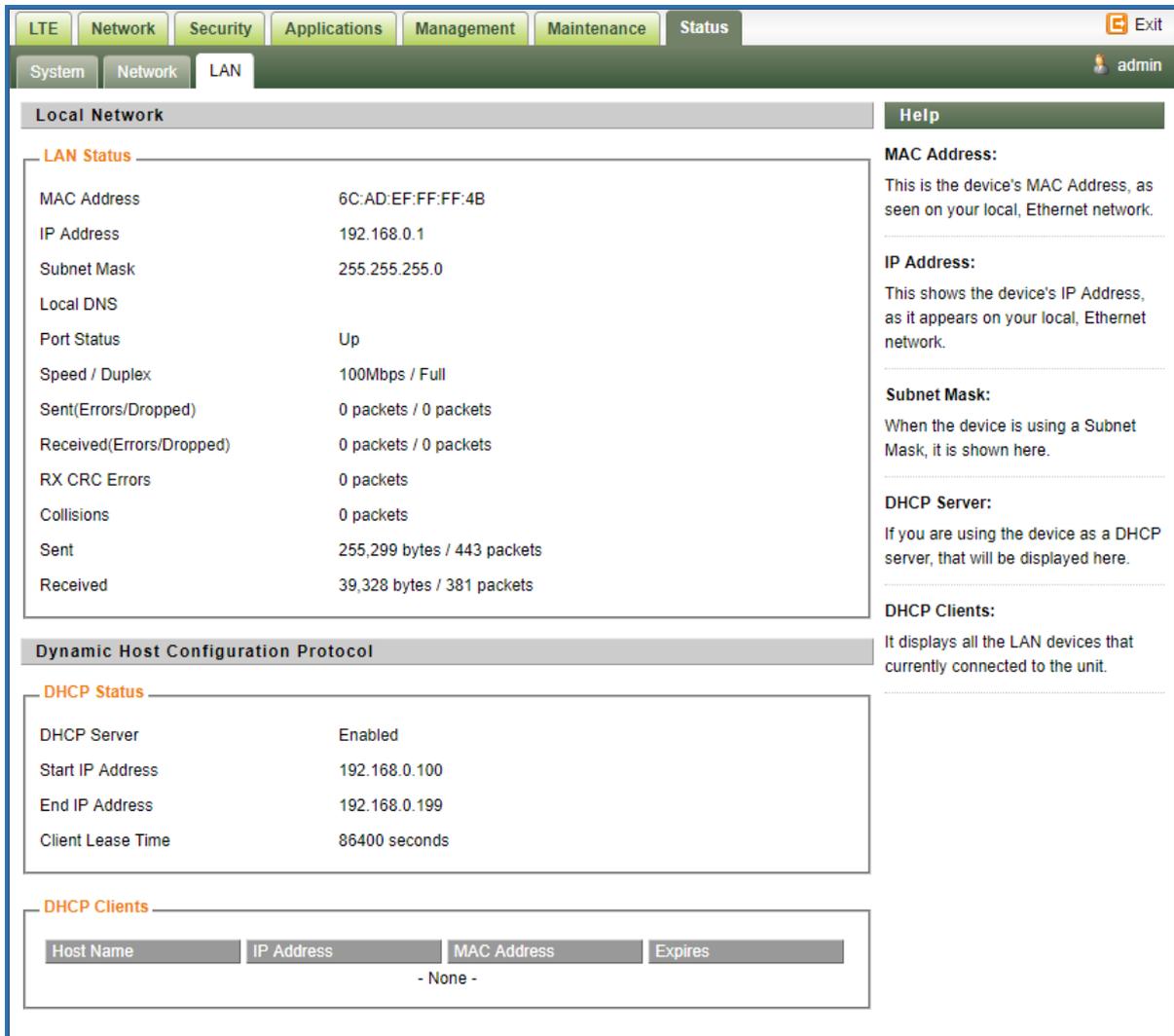
PDN Info:
When the wanprotol is PDN show PDN IP Map.

Route:
The routing table information.

ARP:
The ARP table information.

■ LAN

The menu shows the local LAN network status including the LAN interface and DHCP Server setting and current DHCP clients connected.



The screenshot displays the LAN configuration page in the JATON TEC web interface. The navigation menu at the top includes LTE, Network, Security, Applications, Management, Maintenance, and Status. The current page is titled 'LAN' under the 'Network' section. The interface is divided into three main sections: Local Network, Dynamic Host Configuration Protocol, and DHCP Clients.

Local Network

LAN Status	
MAC Address	6C:AD:EF:FF:FF:4B
IP Address	192.168.0.1
Subnet Mask	255.255.255.0
Local DNS	
Port Status	Up
Speed / Duplex	100Mbps / Full
Sent(Errors/Dropped)	0 packets / 0 packets
Received(Errors/Dropped)	0 packets / 0 packets
RX CRC Errors	0 packets
Collisions	0 packets
Sent	255,299 bytes / 443 packets
Received	39,328 bytes / 381 packets

Dynamic Host Configuration Protocol

DHCP Status	
DHCP Server	Enabled
Start IP Address	192.168.0.100
End IP Address	192.168.0.199
Client Lease Time	86400 seconds

DHCP Clients

Host Name	IP Address	MAC Address	Expires
- None -			

Help

MAC Address:
This is the device's MAC Address, as seen on your local, Ethernet network.

IP Address:
This shows the device's IP Address, as it appears on your local, Ethernet network.

Subnet Mask:
When the device is using a Subnet Mask, it is shown here.

DHCP Server:
If you are using the device as a DHCP server, that will be displayed here.

DHCP Clients:
It displays all the LAN devices that currently connected to the unit.

11 FAQ and Troubleshooting

1) My PC cannot connect to the CPE.

- Re-plug the PC Ethernet cable and check if the PC LAN connection is up or showing activity.
- Check if the PoE power adapter LED is on. If it is not, check the power cord and make sure it is connected properly. Also verify that the AC power supply is available.
- If the PC LAN shows no activity and PoE adapter LED is off but the power cord is connected properly and there is AC supply, then it is likely the PoE adapter is damaged. Please contact distributor to obtain replacement part.

2) My PC cannot acquire IP from the CPE.

- First check if the PC NIC interface is up and working properly. Then check the PC NIC configuration. If the device is running in router mode, then make sure the PC DHCP is enabled. Open the MS-DOS or CMD window, enter “ipconfig /release” and “ipconfig /renew” commands and see if PC can obtain IP correctly.
- If the device is configured to operate in bridge mode, the PC NIC IP should be manually configured to be 192.168.0.10 / 255.255.255.0 in order to gain access to the device WEB GUI. When you are done with the device configuration, the PC NIC IP should be reconfigured to use DHCP for proper LTE networking.
- If the problem persists, please contact the operator or distributor for further diagnose.

3) My CPE networking is not working properly.

- You may want to check if the LTE connection is up and running properly. You can do this by login the WEB GUI and check the Interface Info page.
- You may want to perform a factory reset and see if the problem is being corrected. You can do this by log into the WEB GUI using the “admin123” administrator password and perform restore the unit to default factory setting.
- If the problem cannot be corrected by factory reset, please contact the operator or distributor for further diagnose.

4) I forget the login password and like to reset the unit to factory default.

- Please look up the IMEI number in the CPE unit label. The unit can be reset to factory default setting by entering the IMEI number in the WEB login window.
- After the unit is reset to factory default, you can login using the default password.