ASCENT
Communication Technology

AEOC Series

AM200 & AC100

User Guide

Revision B

ACT Ethernet over Coax (EoC) Series

EoC Master (AM200) & EoC Client (AC100)

User Guide

ACT Document Number: AEOC EoC UG Revision B

This document is produced to assist professional and properly trained personnel with installation and maintenance issues for the product. The capabilities, system requirements and/or compatibility with third-party products described herein are subject to change without notice.

For more information, contact ACT: Sales@ascentcomtec.com

Revision History

Revision	Date	Reason for Change
A	08/01/2012	Initial Release
B	02/01/2014	Hardware Revision and Add WiFi Client

Table of Contents

1. OVERVIEW 4

1.1. Introduction 4

1.2. Specifications 5

1.3. Application Diagram 6

1.4. Ordering Information 6

1.5. Product Description 7

1.6. Quick Installation 11

2. EOC MASTER AND CLIENT CONFIGURATION 14

2.1. EoC Master Web Interface Login 14

2.2. EoC Master Information and Configuration 16

2.2.1. EoC Master Device Information 16

2.2.2. Uplink Network Configuration 17

2.2.3. EoC Master Configuration 18

2.2.4. RF Card Configuration 19

2.2.5. EoC Client Configuration 20

2.2.6. System Configuration 25

2.2.7. Contact Information 26

2.2.8. Language Selection 27

3. WIFI EOC CLIENT CONFIGURATION 28

3.1. WIFI EoC Client Web Interface Login 28

3.2. WIFI EoC Client Information and Configuration 30

3.2.1. WIFI EoC Client Device Information 30

3.2.2. Network Configuration 32

3.2.3. Security Setting 37

3.2.4. Application Management 39

3.2.5. Application Management 41

4. TROUBLE SHOOTING 44

Chapter 1 Overview

1. Overview

1.1. Introduction

ACT EoC Master and Client (AM200 and AC100) are a series of Ethernet over Coax (EoC) networking devices designed for next generation IPTV over PON and P2P systems via cost effective CATV coaxial network, delivering multi-media services into the multi-dwelling units (MDUs). AM200 EoC Master and AC100 Client units are compatible with traditional CATV network, Gigabit EPON and Active Ethernet (P2P) networks.

AM200 EoC Master and AC100 Client provide the migration path from traditional HFC to PON/P2P type of Fiber to the Building (FTTB) application. It offers high quality CATV signal together with high speed broadband data access, which can be managed through the SNMP management system.

The AM200 and AC100 EoC units are fully compliant with IEEE802.3, 802.3x, 802.3au, 802.1P and 802.1Q standards. It provides great flexibility to network service operator to connect MDUs with multiple low cost CPE unit. With outstanding performance, quality, and features packed in a compact sized device, these EoC series units are a great selection for Network Operators and Services Providers in Fibre to the Building and business networks.

Features and Benefits

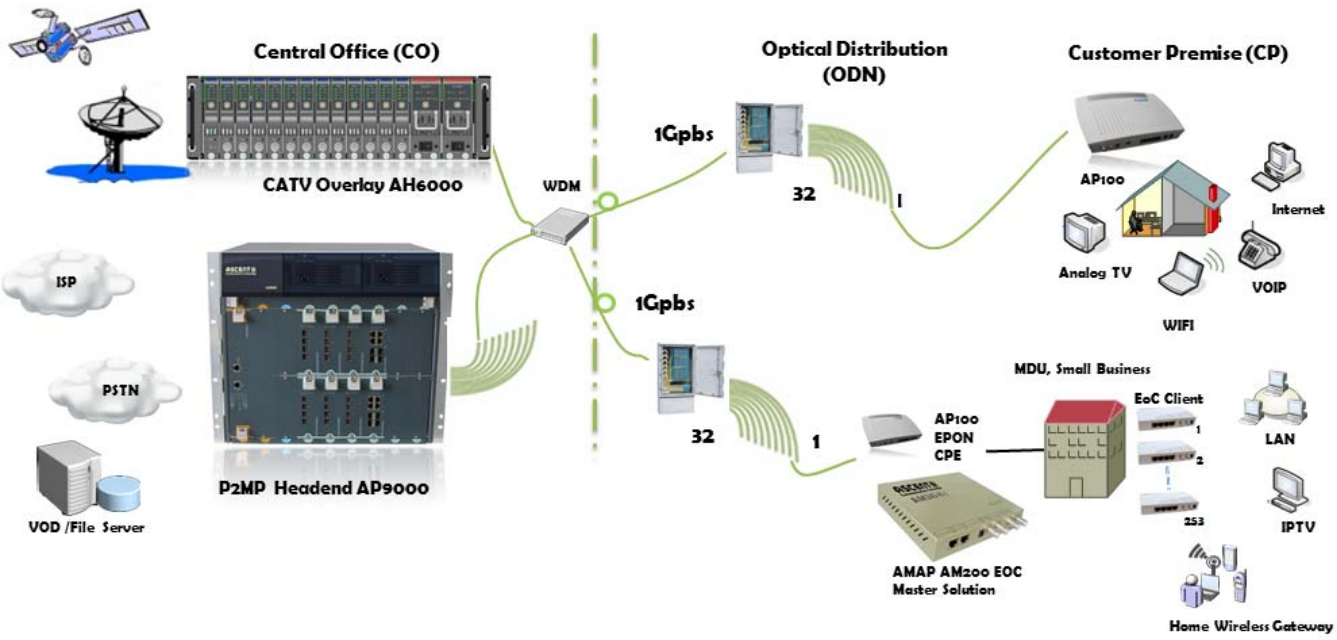
- Advanced Multi-Access Platform designed for Fiber to the Building (MDU) application
- Suitable for short Coax (few hundred meters) HFC system
- Deliver high speed internet, VoIP and CATV services
- High performance CATV RF spectrum from 87 to 1002MHz
- Support NTSC, PAL, DVB-C, DVB-T video standards
- Support VLAN (802.1q), QoS(802.1p), IGMP
- Optimize the service performance as well as utilization of limited IP resource for service providers
- AM200 Ethernet over Coax (EoC) Master unit can support up to 253 EoC Clients CPE units
- Network monitoring and management through SNMP

1.2. Specifications

Indoor AM200 EoC Master and AC100 EoC Client

AM242-HP-65-1	**AMAP EoC Indoor Master Device**	**AC124-HP-65-1 AMAP EoC Client CPE Device (Optional WIFI)**
Fast Ethernet Ports	2x 10/100/1000Mbps Upstream	4x 10/100bps LAN port WIFI(2.4GHz) with PPoE
CATV RF Output	1 or 2 CATV Coaxial F Connector	1 x CATV Coaxial F Connector
CATV RF Input	1 or 2 CATV Coaxial F Connector	1 x CATV Coaxial F Connector
EoC Specification	P1901/HomePlug AV	P1901/HomePlug AV
Protocol	CSMA/CA	CSMA/CA
Modulation	1024/256/64/16/8-QAM, QPSK, BPSK, ROBO	1024/256/64/16/8-QAM, QPSK, BPSK, ROBO
RF Bandwidth	7.5~65MHz	7.5~65MHz
Typical EoC Link Range	1km	1km
Output Power	120dBuV per Carrier	
Data Performance		
MAC Speed	350Mbps	350Mbps
Physical Layer Speed	500Mbps	500Mbps
IEEE	IEEE 802.3, IEEE 802.3x	IEEE 802.3, IEEE 802.3x
	IEEE 802.u Auto MDI(X), 802.1x	IEEE 802.u Auto MDI(X), 802.1x
Protocol	TDMA, CSMA/CA	TDMA, CSMA/CA
VLAN/QoS	IEEE 802.1P, IEEE 802.1Q	IEEE 802.1P, IEEE 802.1Q
Encryption	128-bit AES	128-bit AES
General Specifications		
Operating Temp	-15 to 60 *°C*	-15 to 60*°C*
Storage Temp	-40 to 70*°C*	-40 to 70*°C*
Power Supply	12V, 100~240 VAC Adaptor	12V, 100~240 VAC Adaptor
Operating relative humidity,	10 to 90*%*	10 to 90*%*
Power Consumption	<=9 *W*	<6 *W*
Dimensions (W x D x H)	162x 168 x 34 *mm*	155x 108 x 27 *mm*
Weight, kg	0.5 kg	0.4 kg

1.3. Application Diagram



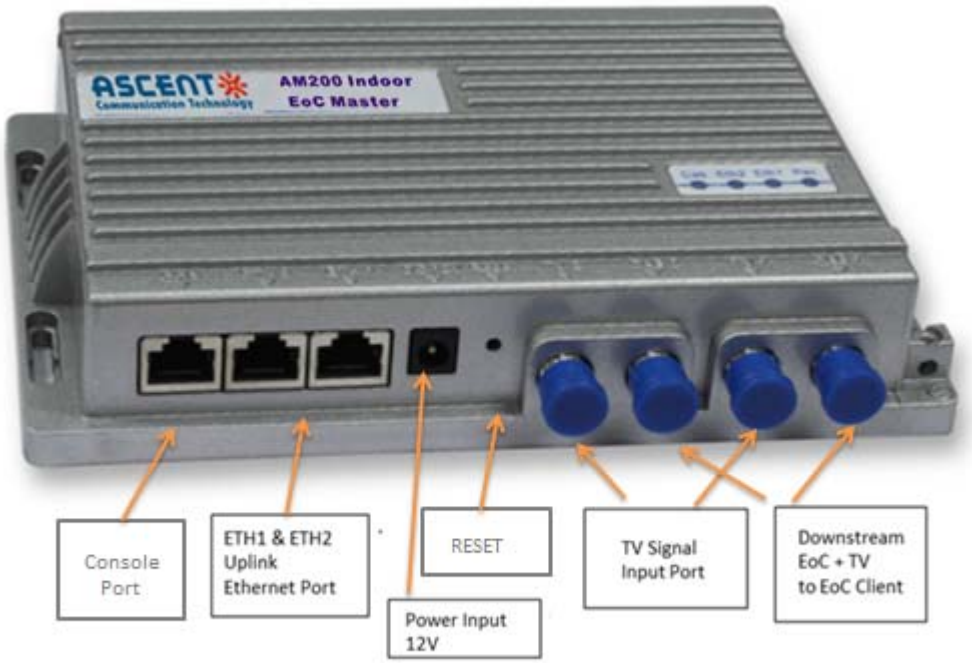
1.4. Ordering Information

AM242-HP-65-1	AM200 EoC Indoor Master Unit, 2 RF Input Ports, 2 RF Output Ports, 2 GE Data Upstream Ports, Home Plug, 7.5 to 65MHz, 100 to 240VAC Adapter included
AC124-HP-65-1	AC100 EoC Client CPE Unit, 1 RF Input Port, 1 RF Output Port, 4 FE Data Ports, Home Plug, 7.5 to 65MHz, 100 to 240VAC Adapter included
AC124W-HP-65-1	AC100 EoC Client CPE Unit, 1 RF Input Port, 1 RF Output Port, 4 FE Data Ports, WIFI, Home Plug, 7.5 to 65MHz, Power Adapter included

***Contact Ascent Local Representative for additional EoC Product Information**

1.5. Product Description

AM200 EoC Master Top panel



LED	Descriptions	Function	
Power	Power indicator light	OFF	Power is OFF
		ON	Power is ON.
ETH1	Uplink Ethernet 1 indicator light	OFF	Ethernet Port is not connected
		ON	Ethernet Port Connection Normal
		Blinking	Ethernet Port Communication Normal
ETH2	Uplink Ethernet 2 indicator light	OFF	Ethernet Port is not connected
		ON	Ethernet Port Connection Normal
		Blinking	Ethernet Port Communication Normal
CABLE	Cable Network light	OFF	No EoC Client connected
		ON	EoC Client Connected
		Blinking	Data Communication with EoC Client

AM200 EoC Master Side Panel

Connection	Description	Function
ETH1	Uplink Ethernet 1	Uplink Connection to WAN or Web Management
		Trunk Port, Same as ETH2
ETH2	Uplink Ethernet 2	Uplink Connection to WAN or Web Management
		Trunk Port, Same as ETH1
CON	Console Port	Console port for Local Management
POWER	Power Input	Power Supply Input Port 12V
CABLE 1	Cable Network 1	F Connector, Downstream EoC + TV signal to Distribution Network
TV1	TV Input 1	F Connector, TV Signal Input
CABLE 2	Cable Network 2	F Connector, Downstream EoC + TV signal to Distribution Network
TV2	TV Input 2	F Connector, TV Signal Input
RESET	Reset	To reset the EoC Master Unit. Press reset button for 3 seconds, the unit will restart, press reset button for more than 5 seconds, the EoC Master unit will restore to factory default settings.

AC100 EoC Client Top panel

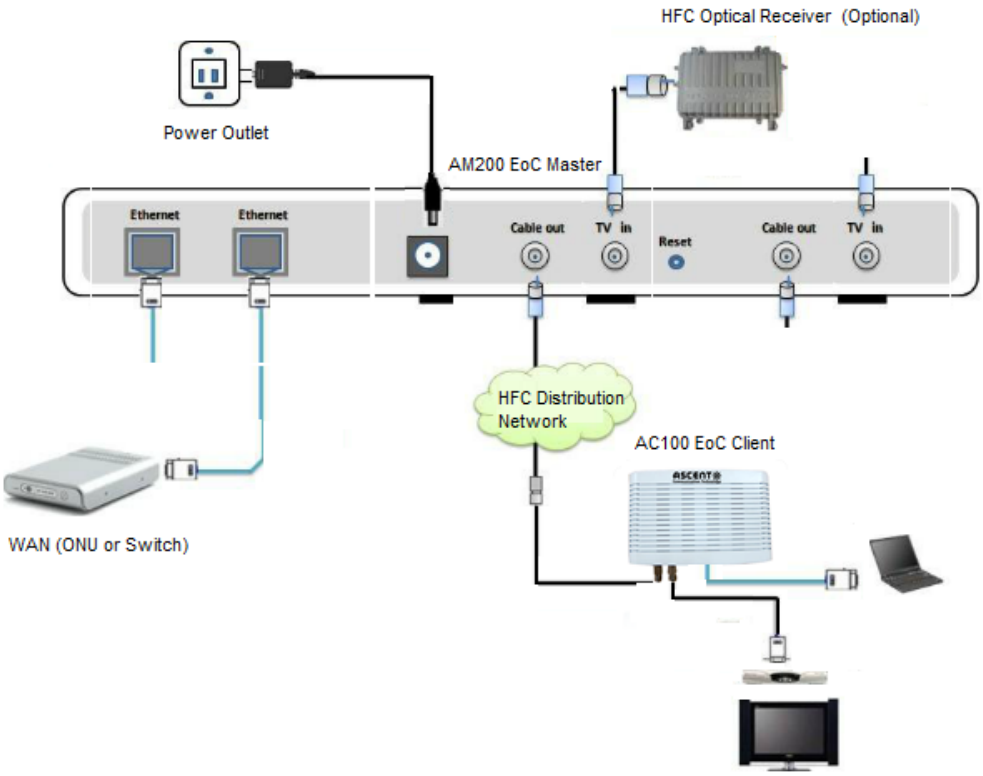
Side panel

Connection	Description	Function
Cable	Network Input Port	Network Receiver Port to receive the EoC + TV signal from the EoC Master
TV	TV Signal Port	Connector to the TV Set or STB
ETH 1	Local Network Port 1	Connect to Local Area Network or PC
ETH 2	Local Network Port 2	Connect to Local Area Network or PC
ETH 3	Local Network Port 3	Connect to Local Area Network or PC
ETH 4	Local Network Port 4	Connect to Local Area Network or PC
POWER	Power Input	12V Power Input from the Adaptor
RESET	Reset the EoC Client	Press >5 seconds or more, factory default setting will be restored
On/Off	Power On / Off	Turn On and Off the EoC Client
WIFI	WIFI antenna	Optional WIFI antenna

LED Light

LED	Descriptions	Function	
Power	Power indicator light	OFF	Power is OFF
		ON	Power is ON.
WLAN	Uplink Network light	OFF	Ethernet Port is not connected
		ON	Ethernet Port Connection Normal
		Blinking	WLAN Port Communication Normal
ETH 1	Local Ethernet 1 indicator light	OFF	Ethernet Port is not connected
		ON	Ethernet Port Connection Normal
		Blinking	Ethernet Port Communication Normal
ETH 2	Local Ethernet 2 indicator light	OFF	Ethernet Port is not connected
		ON	Ethernet Port Connection Normal
		Blinking	Ethernet Port Communication Normal
ETH 3	Local Ethernet 3 indicator light	OFF	Ethernet Port is not connected
		ON	Ethernet Port Connection Normal
		Blinking	Ethernet Port Communication Normal
ETH 4	Local Ethernet 4 indicator light	OFF	Ethernet Port is not connected
		ON	Ethernet Port Connection Normal
		Blinking	Ethernet Port Communication Normal
COAX/ DIAG	Cable Network Connection Status light	OFF	No EoC Master connected
		Green Blinking	EoC Master Connected Normal, Data Connection Normal
		Green On	EoC Master Connected with no communication

1.6. Quick Installation



1. Connect the TV signal (RF cable) to the AM200 EoC Master unit.

2. Connect the EoC Master Unit to the Cable TV Distribution network through the “Cable 1 or 2 Port”.

3. The output frequency range is from 7.5MHz to 65MHz. Output (Narrowcast signal) level is at around 120dBuV. (User adjustable from 95dB to 120dBuV in the Web GUI)

Note: Make sure that the total RF link loss is less than 50dB for proper reception at the EoC Client side. SNR should be above 20dB. Please also refer to the section 2.2.5.4.

Note: When measuring the RF output power of EoC master, it is recommended to use a Spectrum Analyser for accurate reading.

Note: While connecting, always keep the RF connectors tightly fastened.

4. Connect the uplink EoC Master Unit to the WAN network through either ETH1 or ETH2 port. On WAN side, it could be a Data Switch or Router. For some applications, the EoC master can also be connected to the WAN through the ONU at the same location. The “CON” (Console) port is for the local management purpose only.

5. Plug the power adapter to the wall outlet and also the 12V power input port of EoC Master.

6. After the power is ON, LED indicators should light up as for normal operation. Check whether the POWER status LED is on continuously. And the Cable LED is one for active RF output to the distribution network.

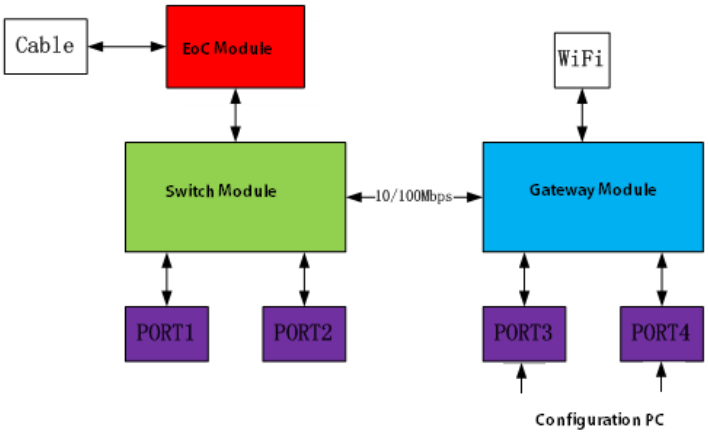
7. Connect RF input to the AC100 Network Port

8. Connect the TV port to either the set top box or TV set

9. Connect the LAN port 1 – 4 to the Home network, router or Personal Computer

    - For AC124W WIFI Client: The port1 and port2 are connected to the switch chip which could be configured by EoC master for VLAN setting and rate limit etc. (same as the standard EoC Client.)

    - For AC124W WIFI Client: The port3 and port4 are connected to the gateway module as below. The Configuration PC with IP address 192.168.0.X will need to be connected to the EoC wifi client through these two ports for proper management.



10. Plug the power adapter to the wall outlet and also the 12V power input port of EoC Client.

11. After the EoC Master is ON, LED indicators should light up as for normal operation. Check whether the Ethernet and Cable status LED is on continuously. If yes, the connection is normal; otherwise there is either issue with the physical connection or the RF levels at either end. This may be caused by either too much or too little attenuation over the RF cable. Please refer to the Layout Description section of this installation manual for nominal LED activity.

12. Check all signal levels and services on all the communication ports.

13. Go to the next step to configure the EoC Master and Client using the WEB GUI

14. PC Computer minimum requirement for management
    - CPU: 233MHz and above
    - MEM:128MB or above
    - Ethernet Port: 10M/100MBase-T
    - Operating System: WIN2000、WINXP、 WIN7、 WINNT

Note: EoC Client Unit Installation Adjustment

1. Installing the AC100 on a horizontal surface (Bench top)

Put the EoC Client on a clean, flat, sturdy bench top. Suggest keep the clearance for all sides of the unit to more than 10cm for heat dissipation.

2. Installing the AC100 on a vertical surface (Hanging on a wall)

You can install the EoC Client on a vertical surface by using the moulded mounting holes on the bottom of the unit chassis (refer to Figure below) and two flat-head wood screws.

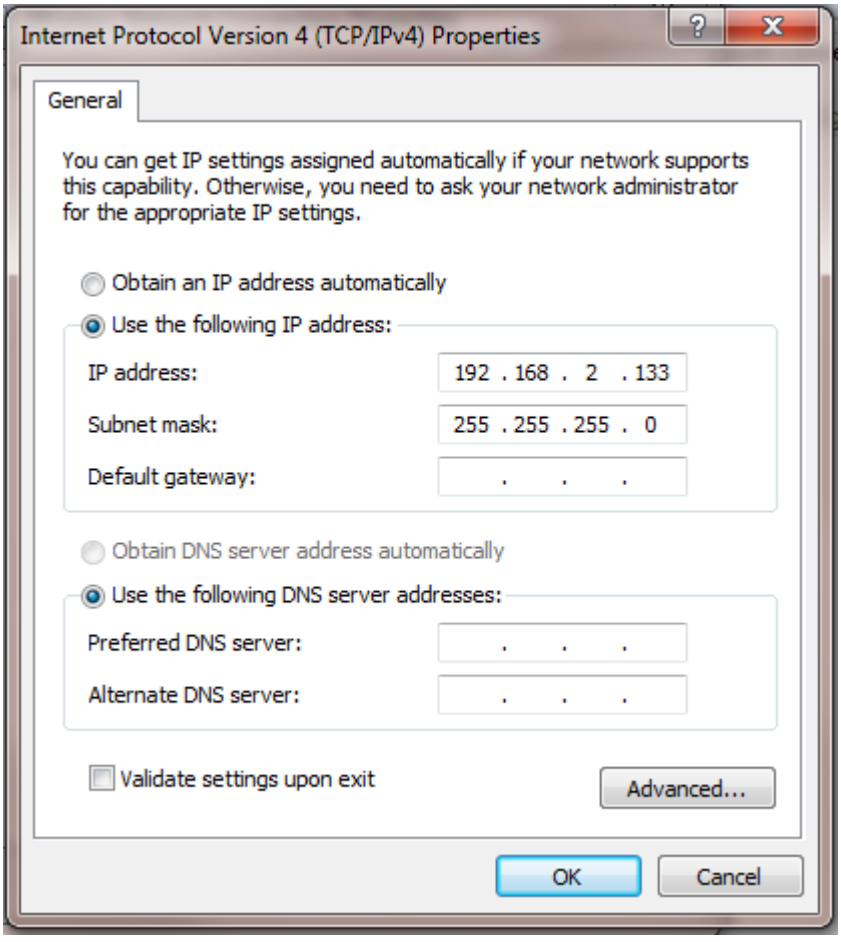
Chapter 2 EoC Master Configuration

2. EoC Master and Client Configuration

2.1. EoC Master Web Interface Login

The EoC Master and Client devices are configured using the web GUI interface. The EoC Master has a default IP Address of 192.168.2.100 and subnet mask of 255.255.255.0. The following steps will enable the administrator to login:

1、 Config the management computer in the same LAN network with IP address in the same subnet 192.168.2.xxx.



2、 Connected both EoC Master and Client as descried in section “1.6 Quick Installation” ;
3、 Ping EoC Master 192.168.2.100. If successful, go to next step.
4、 Open the IE web browser, type the device IP address 192.168.2.100 in address bar;
5、 Entry of the username and password will be prompted. Enter the default login User Name and Password:

The default login User Name of the administrator is "admin", and the default login Password is "admin".

2.2. EoC Master Information and Configuration

This section shows you how to use the EoC Web Management GUI Software.

2.2.1. EoC Master Device Information

After successful logging in, the first page is “Device info”.
This Device Information page shows EoC Master information. You can modify the unit specific information such as Device name, description etc.
Click “Device info” in the left menu, it shows same page.

Figure 2.2.1.1: Device information

When you click “Running Status” in the left menu, the page shows the EoC Master network configuration information and running time (once the EoC Master is restarted, the time will restart from zero)

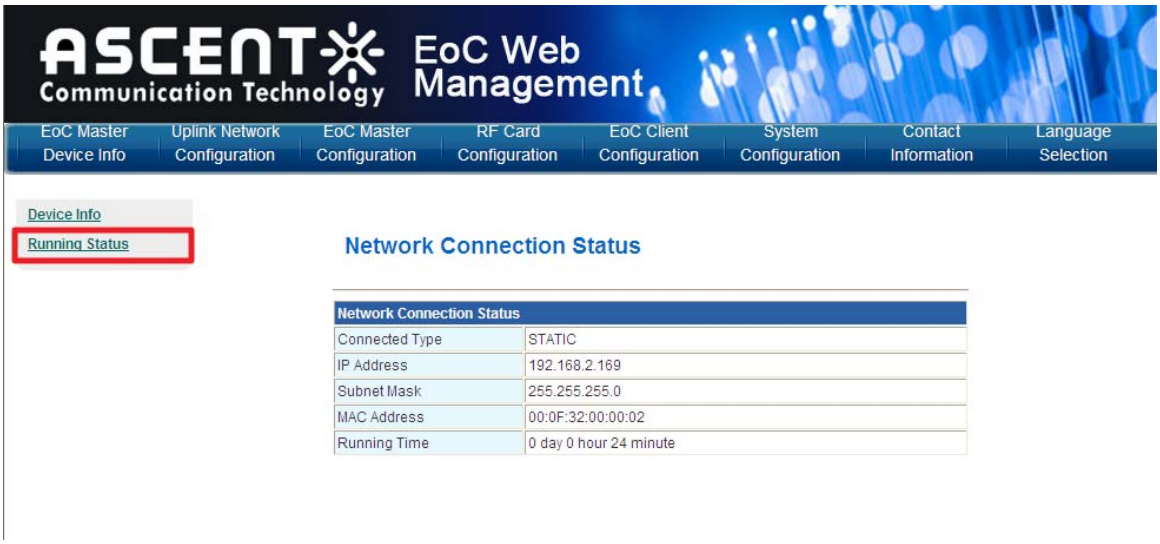


Figure 2.2.1.2: Running Status

2.2.2. Uplink Network Configuration

Click “Uplink Network Configuration” in the top menu, and then click “VLAN Configuration” in the left menu, the page shows Port status, VLAN settings such as below.

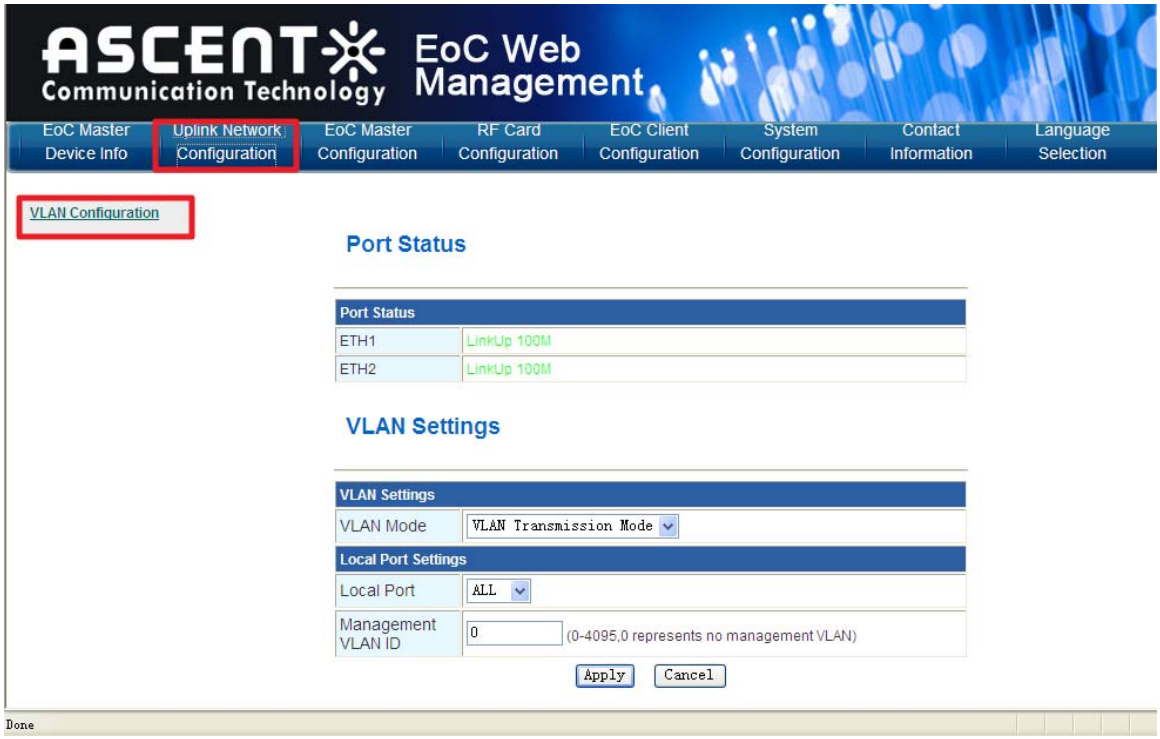
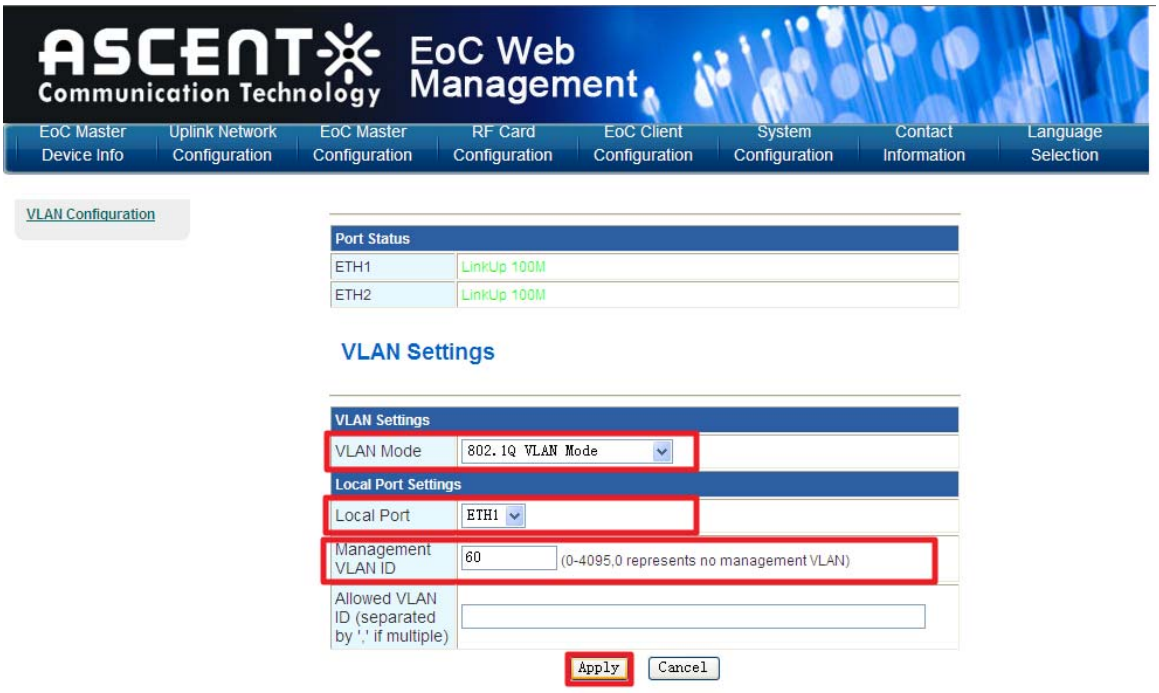


Figure 2.2.2.1: Uplink Network information

The VLAN Mode can be set as “VLAN transmission Mode” or “802.1Q VLAN Mode”, Local Port can be set as “ALL”, or “ETH1”, or “ETH2”. After these settings, please enter “Management VLAN ID”, and click “Apply” to complete the configuration.



2.2.3. EoC Master Configuration

In the “EoC Master Configuration” setting, user can change the default IP address of the EoC Master. Click “IP Settings” in the left Menu, this page shows the IP Setting function.

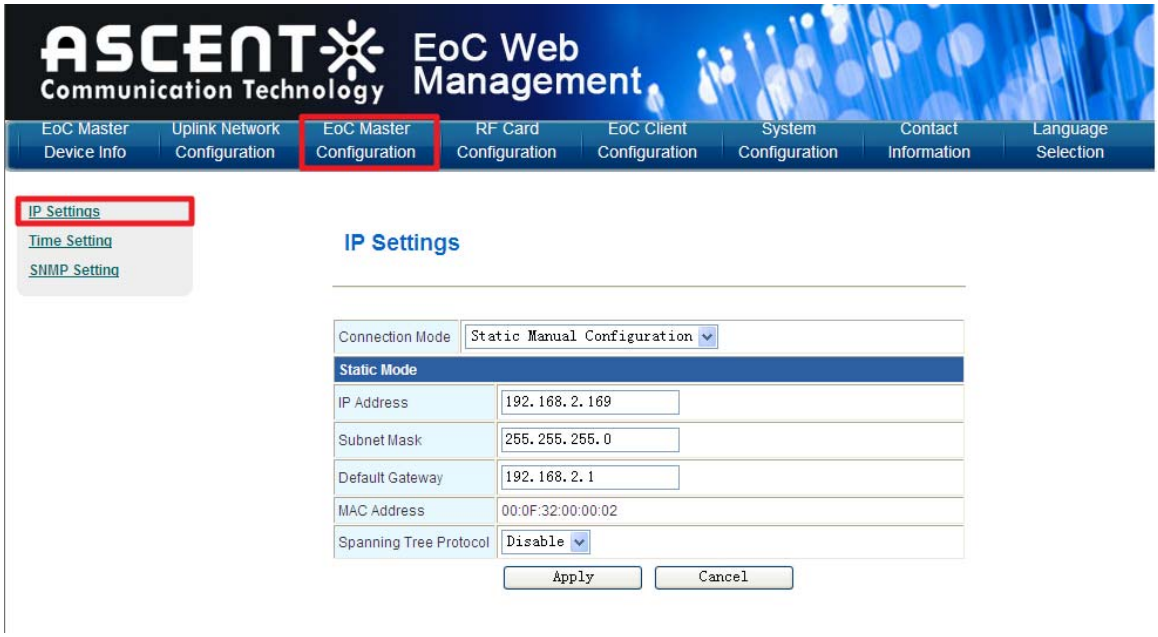


Figure 2.2.3.1: IP Setting Information

Click “Time Setting”, user can setup the system time. This page shows the time setting function.

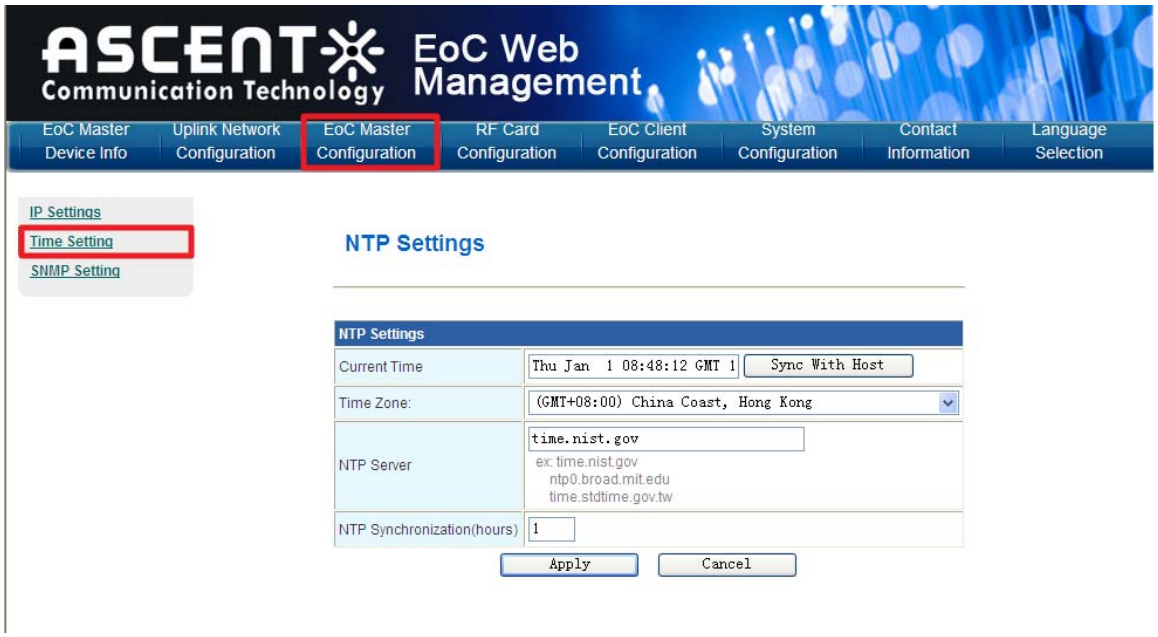


Figure 2.2.3.2: Time Setting Information

Click “SNMP Setting” in the left menu. This page shows SNMP information for the EoC Master Device. When the “SNMP Control” and “Trap control” are enabled, and the master will sent the alarms to the Trap IP address set on this page.

Figure 2.2.3.3: SNMP Information

2.2.4. RF Card Configuration

Click “RF Card Configuration” in the top menu, and then click “CBAT Information” in the left menu, it shows EoC master RF related settings and information such as output power.

Figure 2.2.4.1: RF Card information

Click MAC address you can do some setting of the EoC master.

Figure 2.2.4.2: CBAT setting

The RF output power level and working frequency can be fine-tuned in their normal operating range. CBAT card hidden nodes, conservative ToneMap and MAC learning are usually not needed to be changed, you can keep the factory default value unless there are special requirements.

2.2.5. EoC Client Configuration

2.2.5.1. User Management

Click “EoC Client Configuration” in the top menu, and then click “User Management” in the left menu, it shows all user information under the current EoC master, such as MAC address, uplink and downlink speed, online or offline, EOC CLIENT type, Template name, VLan ID, Restart and Force offline.

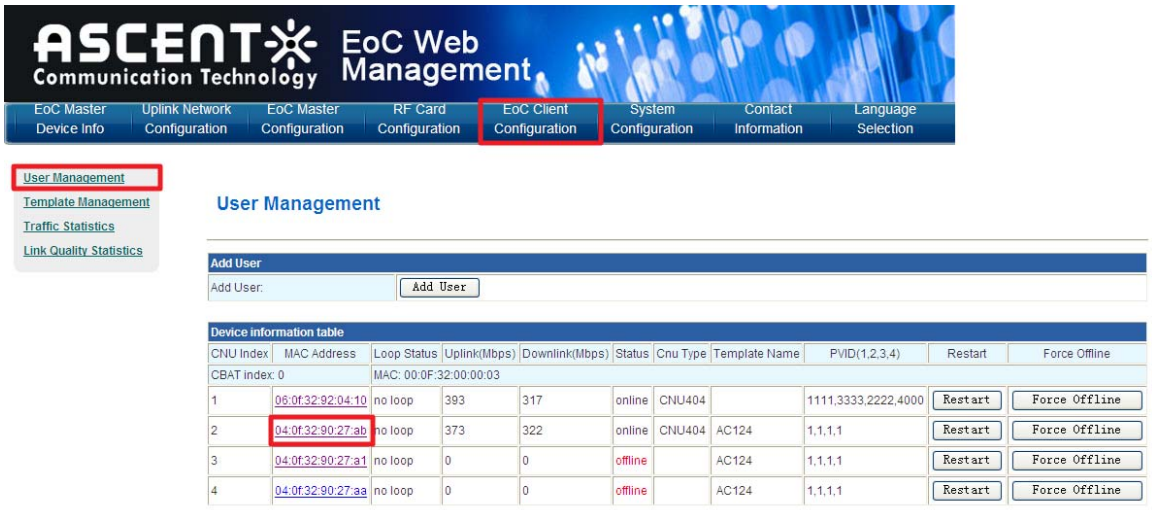


Figure 2.2.5.1.1.: User Management

Click MAC address you can do some setting of the EoC client.

Figure 2.2.5.1.2.: EOC CLIENT settings

This page you can set Username and User Description for each client which can be used for user query and management. In EOC CLIENT Authorization, you can select Allowed or Prohibition for different users. When select the Prohibition, the EoC client can't be used as normal. On-Line Time will be synchronous updated when the EOC CLIENT back online every time. Version shows the firmware version of the EOC CLIENT. The next two lines will be Template configuration. The master will hand out a default template to each EOC CLIENT when it gets first online. You can decide whether to use the template depends on your requirements. If you don't choose any template, you can do personalized configuration of the EoC Client, see below:

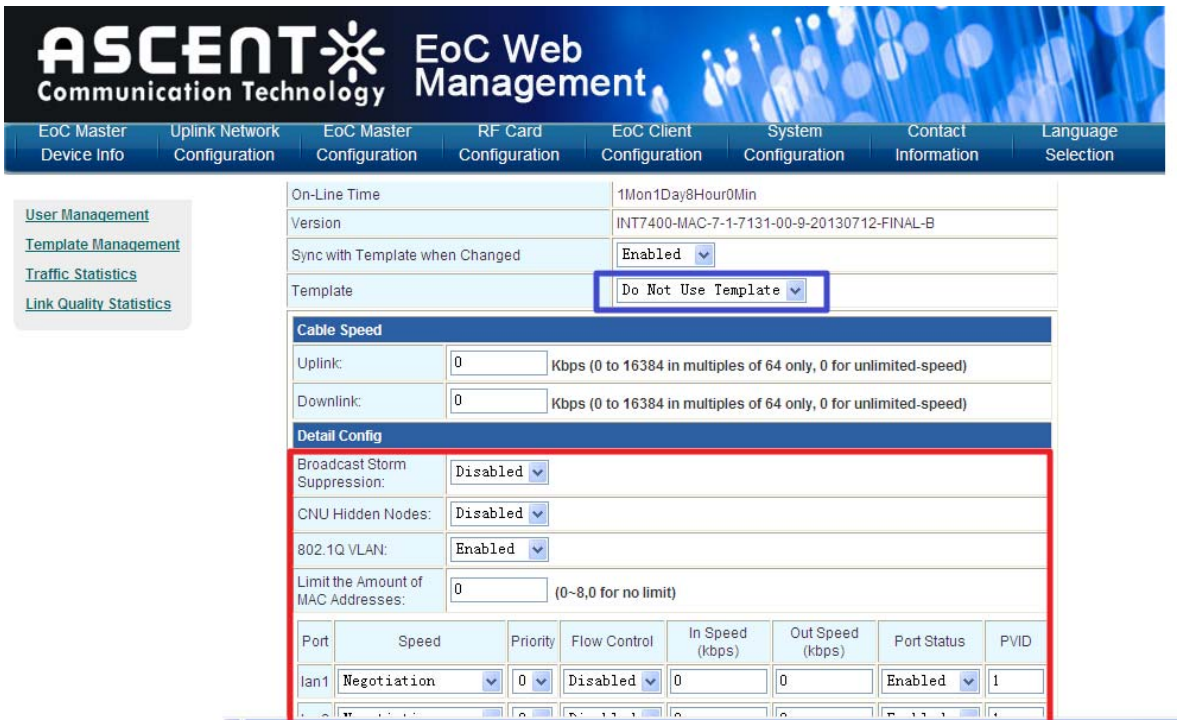


Figure 2.2.5.1.3.: EOC CLIENT settings

2.2.5.2. Template Management

Click “Template Management” in the left menu, this page shows EoC Client Template List.

Figure 2.2.5.2.1: Template Management

It lists all existing templates. The EoC Client can have different services levels which can be achieved by applying different EoC Client template. Click New you can create a new template, and click template name you can do modification for it.

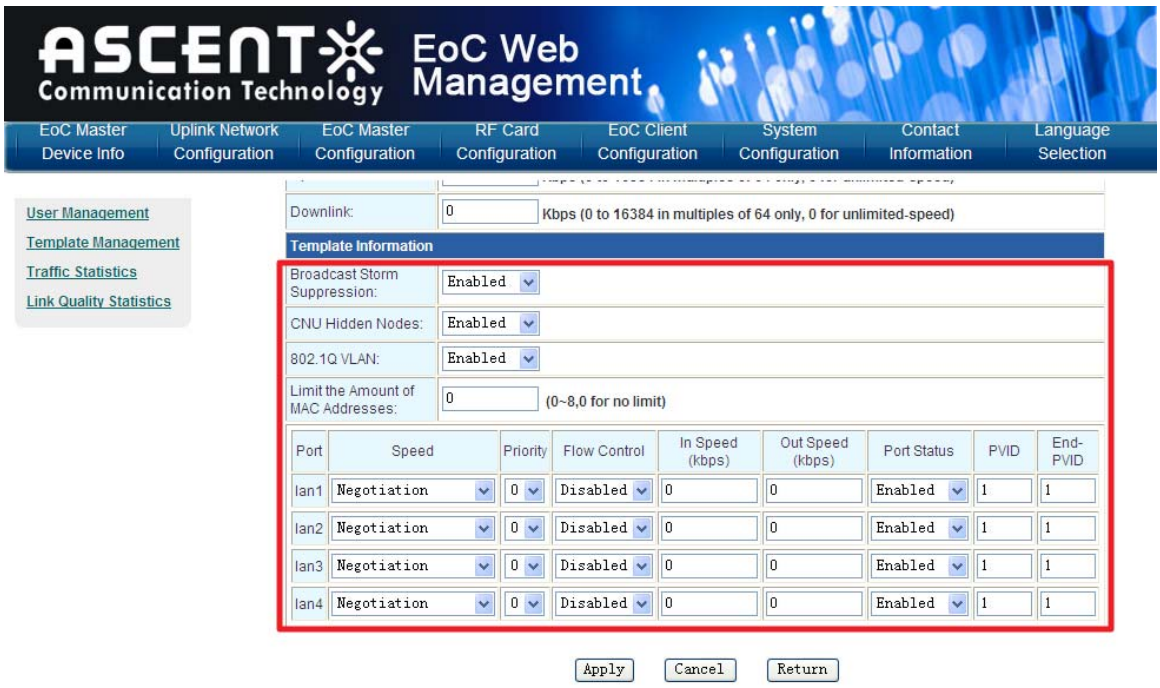


Figure 2.2.5.2.2: Modification of EoC Client Template

Most of parameters can use the default, usually only In Speed, Out Speed and PVID need to be configured. Set In Speed and Out Speed will limit the downlink and uplink maximum speed of EoC Client. If you need, you can allocate VLAN pool in the Template. When “End-PVID” is 1, the VLAN pool is not

being used; When “END-PVID” is not 1 (PVID<End PVID), the VLAN pool is being used, and the Template will auto allocate VLAN ID to EOC CLIENT when it login and chooses the Template.

2.2.5.3. Traffic Statistics

Click “Traffic Statistics” in the left menu, this page shows the real-time traffic information.

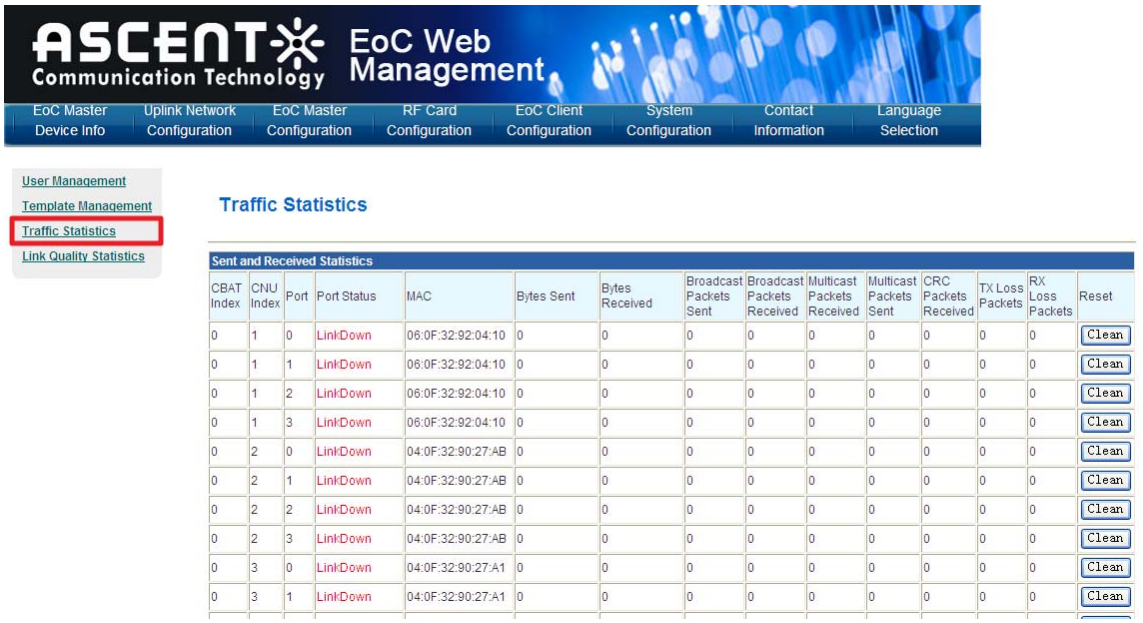


Figure 2.2.5.3.: Traffic Statistics

2.2.5.4. Link Quality Statistics

Click “Link Quality Statistics” in the left menu, this page shows the Link Quality Statistics of each EOC CLIENT.

Figure 2.2.5.4.: Link Quality Statistics

NOTE: The key parameters will be SNR and Link Attenuation. To ensure the normal communication between EoC Master and Client, the SNR should be above 20dB and the Link attenuation between 20 to 50dB.

2.2.6. System Configuration

2.2.6.1. Restart

Click “System Configuration” in the top menu, and then click “Restart” in the left menu, click Restart in the page, the EoC master will be restarted and it will take about 25 seconds.

Figure 2.2.6.1.: Restart EoC Master

2.2.6.2. Configuration Setting

Click “System Configuration” in the top menu, and then click “Configuration Setting” in the left menu.

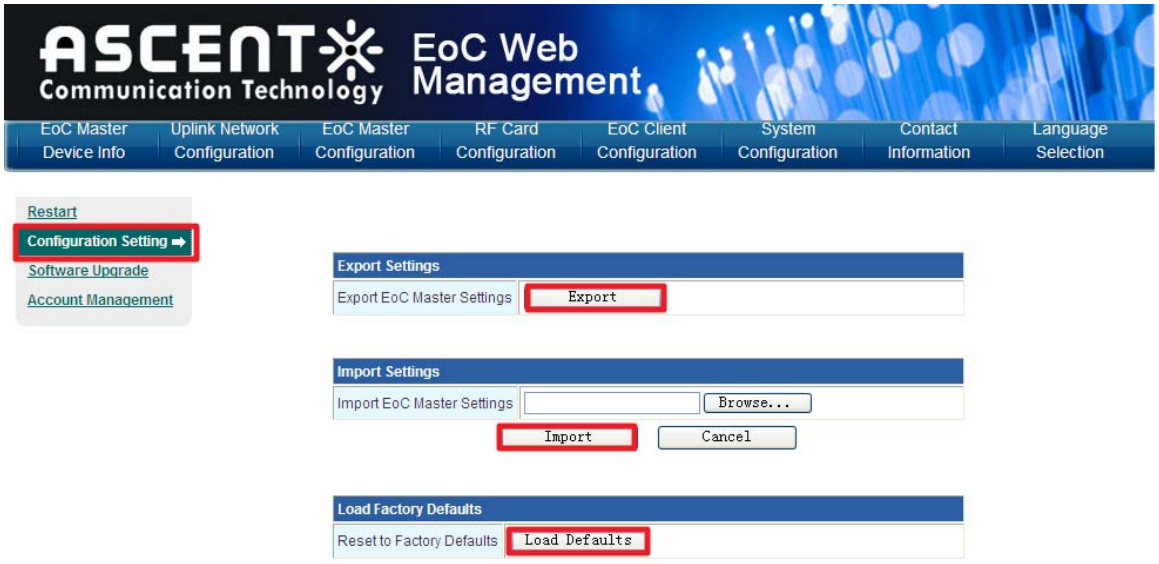


Figure 2.2.6.2.: Configuration Setting

Click “Export” or “Import”, we can export or import EoC master settings. Click “Load Defaults”, all settings will be reset to factory defaults.

2.2.6.3. Software Upgrade

Click “Software Upgrade” in the left menu, you can do firmware upgrade in this page. Unless there is a special reminder, you don’t need restore the factory settings and reconfigure the EoC master.

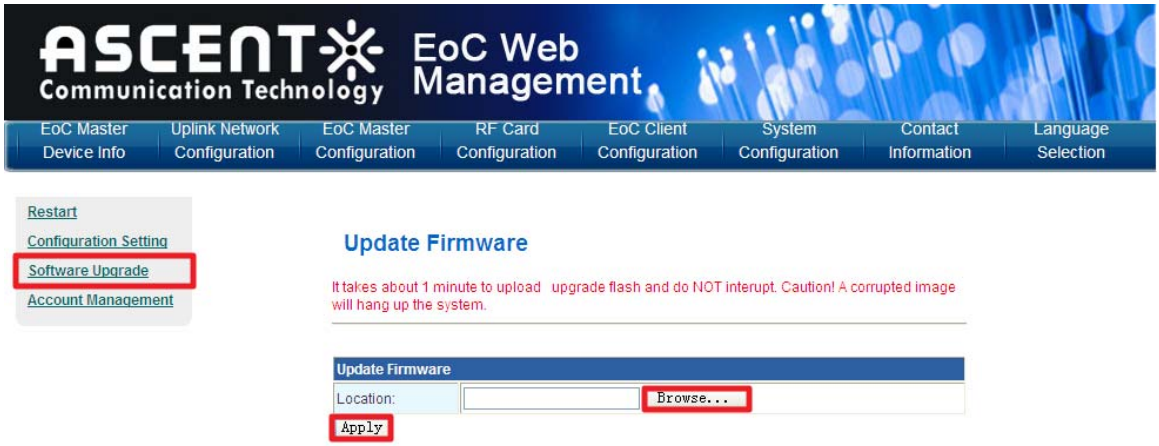


Figure 2.2.6.3.: Software Upgrade

2.2.6.4. Account Management

Click “Account Management” in the left menu, it shows the login page, both default account and password are “admin”, you can modify them.

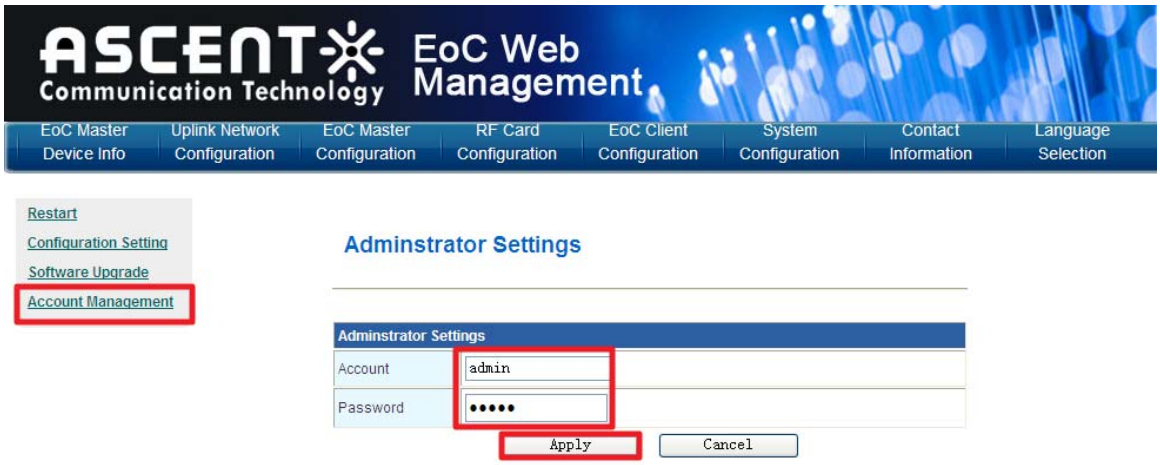


Figure 2.2.6.4.: Account Management

2.2.7. Contact Information

Click “Contact Information” in the top menu, and then click “Contact Information” in the left menu. This page shows Ascent contact information.

Figure 2.2.7.: Contact Information

2.2.8. Language Selection

Click “Language Selection” in the top menu, and then click “Language Setting” in the left menu. You can select the local language under the Language Menu.

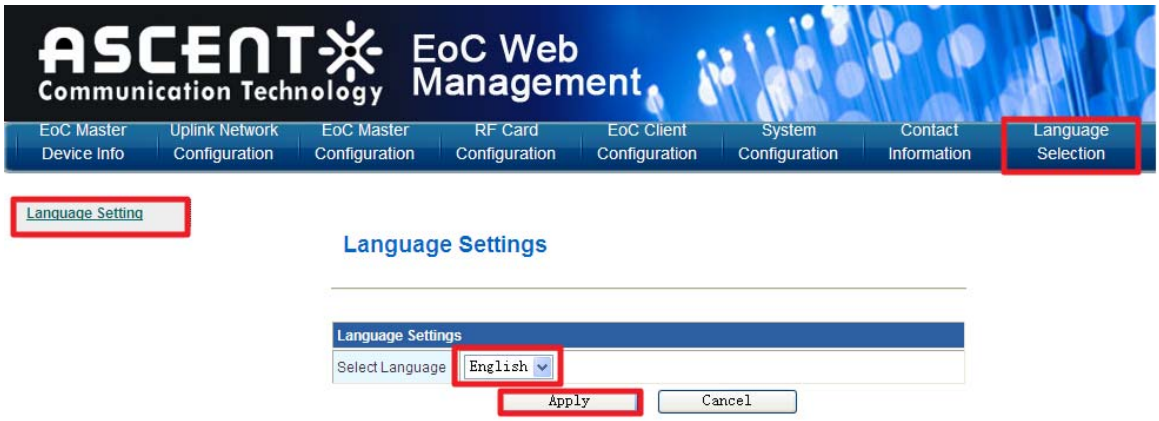


Figure 2.2.8.: Language Selection

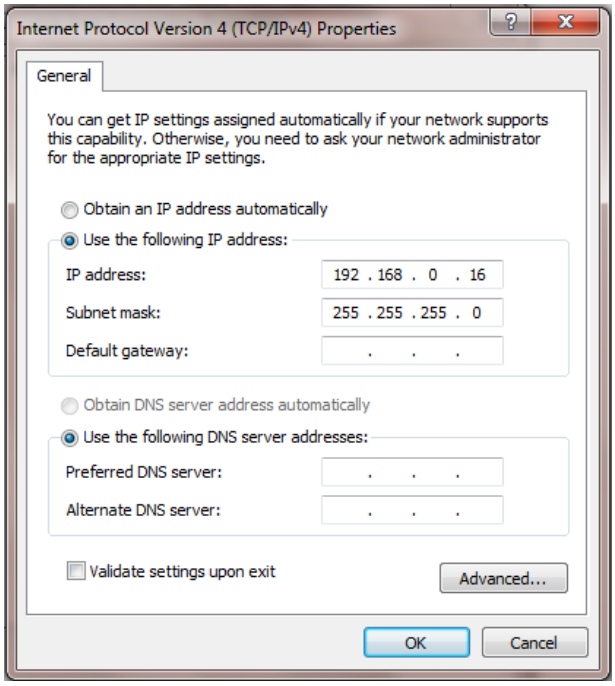
Chapter 3 WIFI EoC Client Configuration

3. WIFI EoC Client Configuration

3.1. WIFI EoC Client Web Interface Login

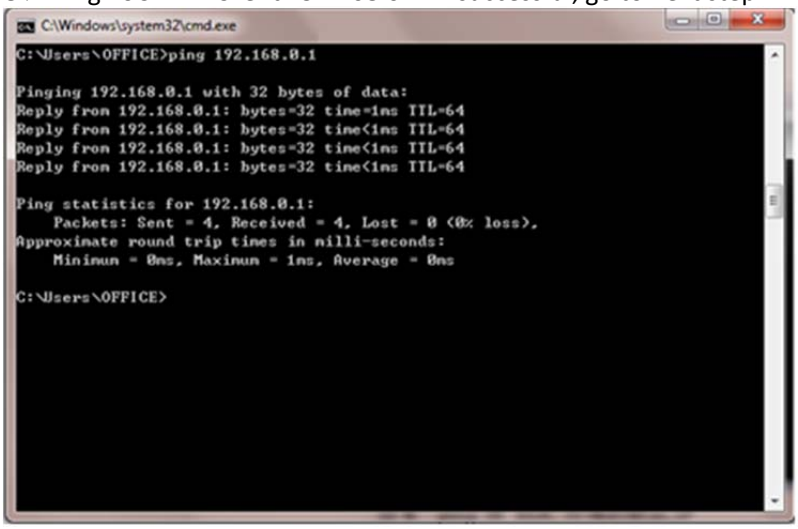
The Wifi EoC Client supports its own Web GUI for user configuration. The EoC client has a default IP Address of 192.168.0.1 and subnet mask of 255.255.255.0. The following steps will enable the administrator to login:

6、 Config the management computer in the same LAN network with IP address in the same subnet.



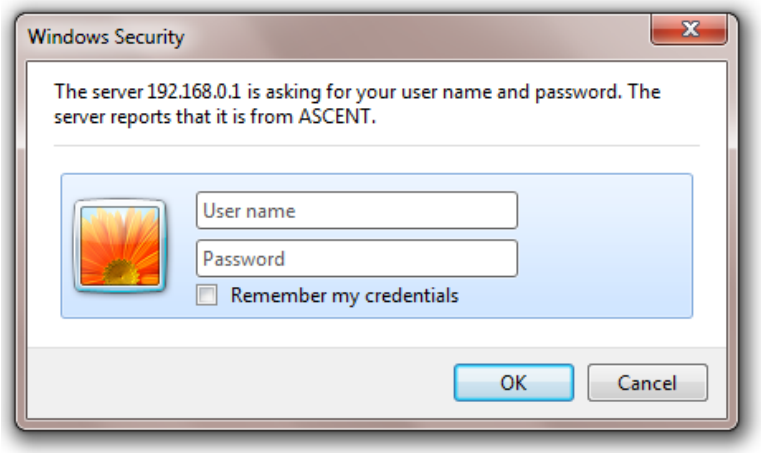
7、 Connected both EoC Master and Client as descried in section “1.6 Quick Installation” ;

8、 Ping EoC WIFI Client 192.168.0.1. If successful, go to next step.



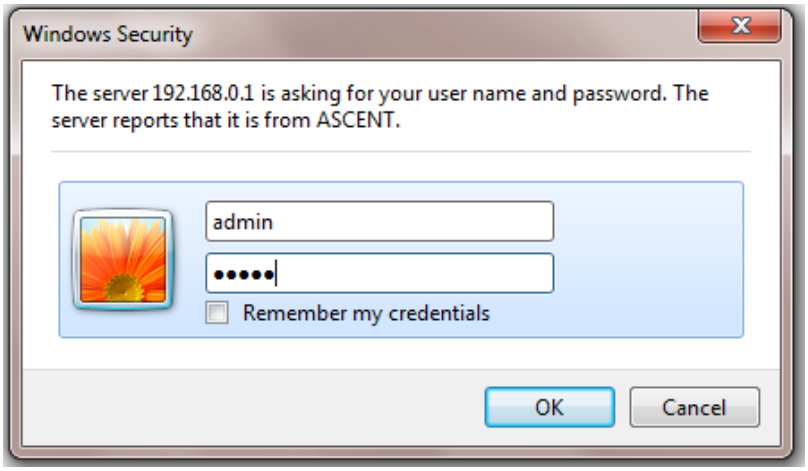
9、 Open the IE web browser, type the device IP address 192.168.2.100 in address bar;

10、 Entry of the username and password will be prompted. Enter the default administrator login User Name and Password:



The default login User Name of the administrator is "admin", and the default login Password is "admin".

The default login User Name of the user is "useradmin", and the default login Password is "useradmin".



3.2. WIFI EoC Client Information and Configuration

This section shows you how to use the EoC Web Management GUI Software.

3.2.1. WIFI EoC Client Device Information

This Device Information page shows WIFI EoC Client information. You can modify the unit specific information such as Device name, description etc.

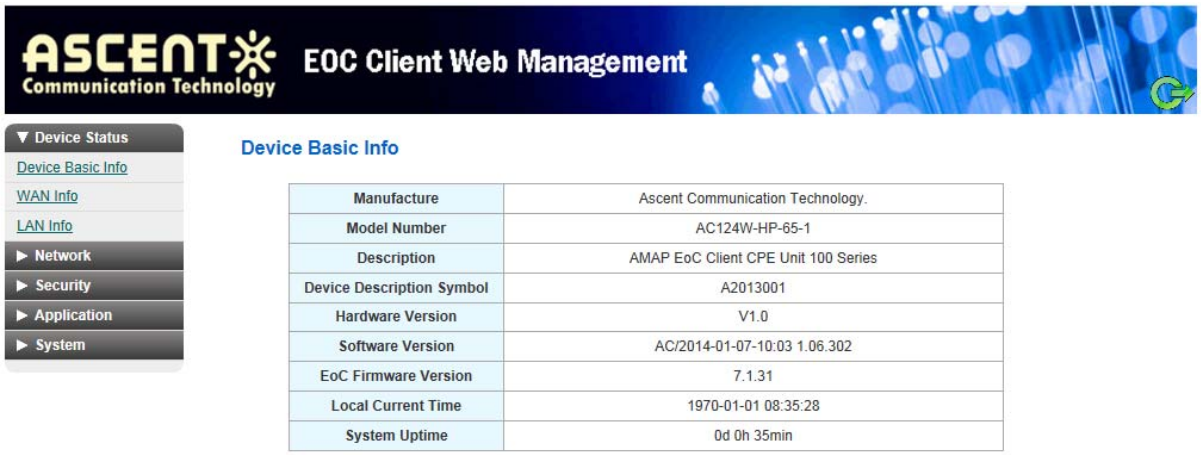


Figure 3.2.1.1: Device information

The “WAN Information” page shows WAN IP address, MAC address information such as below.

Figure 3.2.1.2: WAN Network information

The “LAN Information – Ethernet Info” page shows Ethernet IP address, MAC address information such as below.

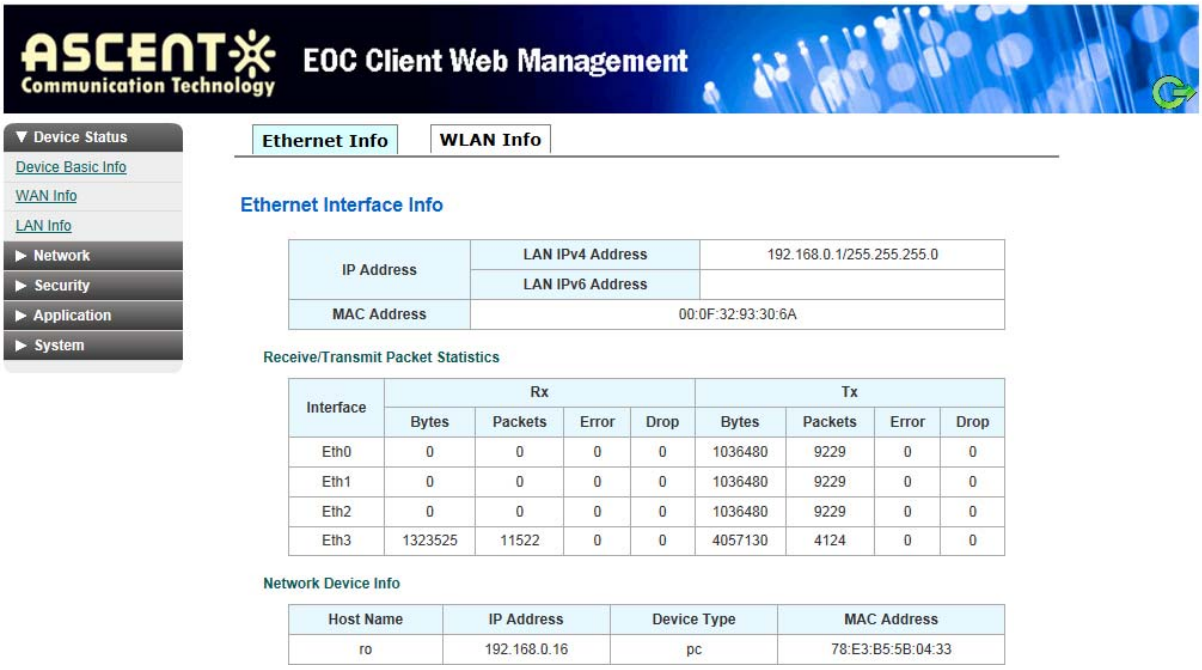


Figure 3.2.1.3: LAN Network information

The “LAN Information – WLAN Info” page shows WIFI WLAN interface information such as below.

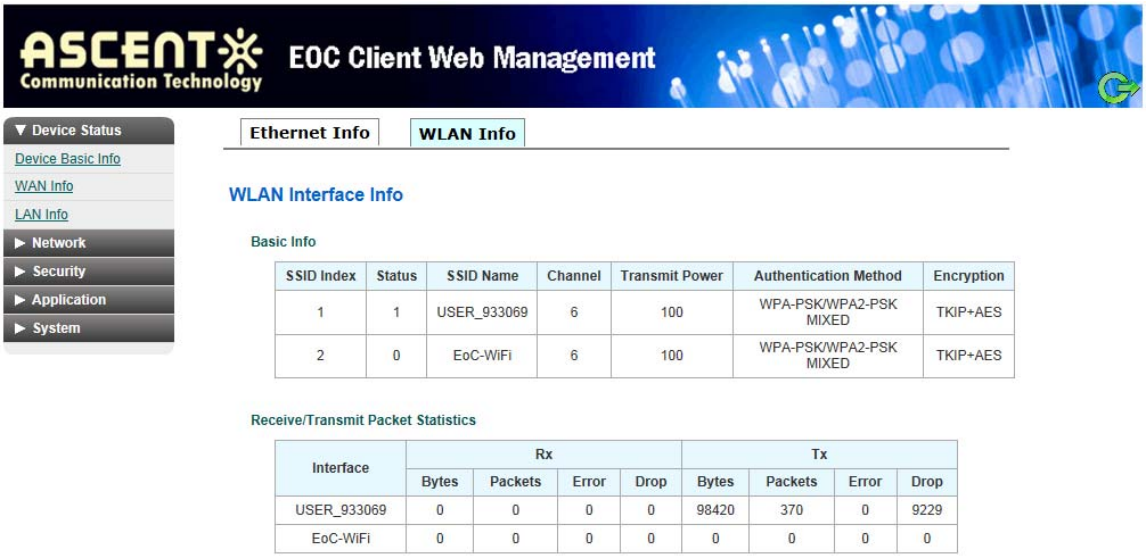


Figure 3.2.1.4: WLAN Network information

3.2.2. Network Configuration

In the “WIFI EoC Client Network Configuration” setting section, user can change WAN, DHCP, WiFi, and Router settings.

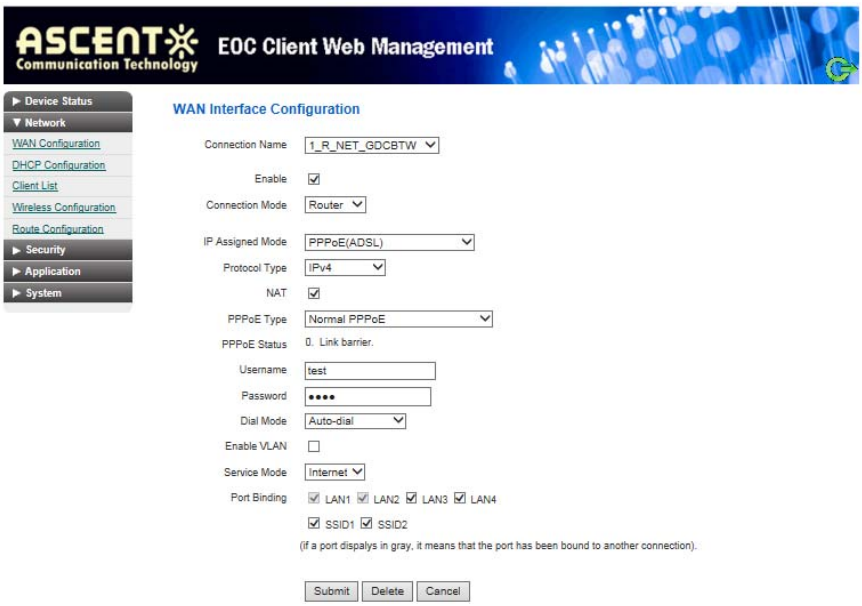


Figure 3.2.2.1: IP Setting Information

Under WAN interface configuration, user can select the different mode for Ethernet connection.

- Connection name: this is the network connection name automatically generated by system and each connection has its own name.
- Connection mode: there are two selection modes: Route and Bridge.

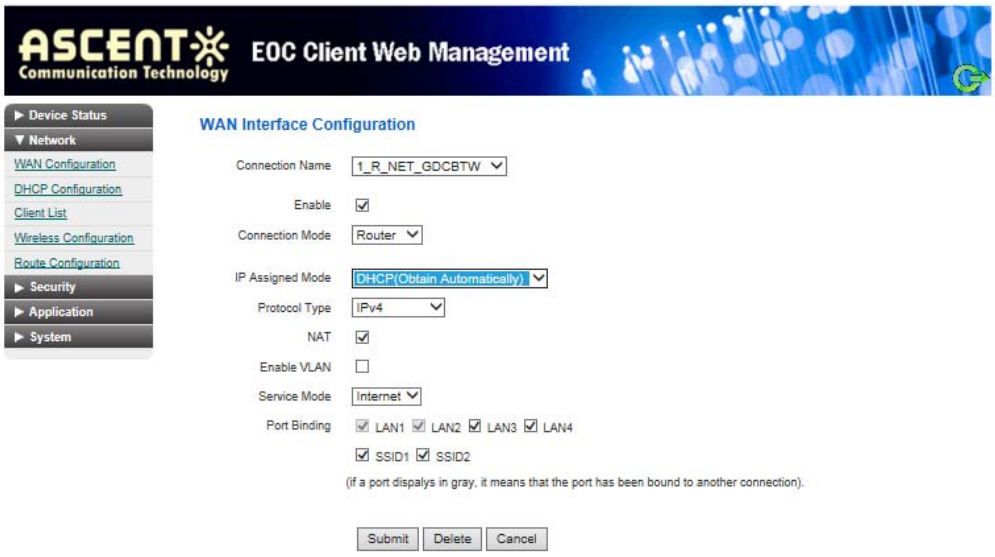


Figure 3.2.2.2: Router Connection Mode

Here below diagram shows the Bridge Mode. For the WAN connection with Bridge Mode, normally the VLAN will need to be configured for proper operation.

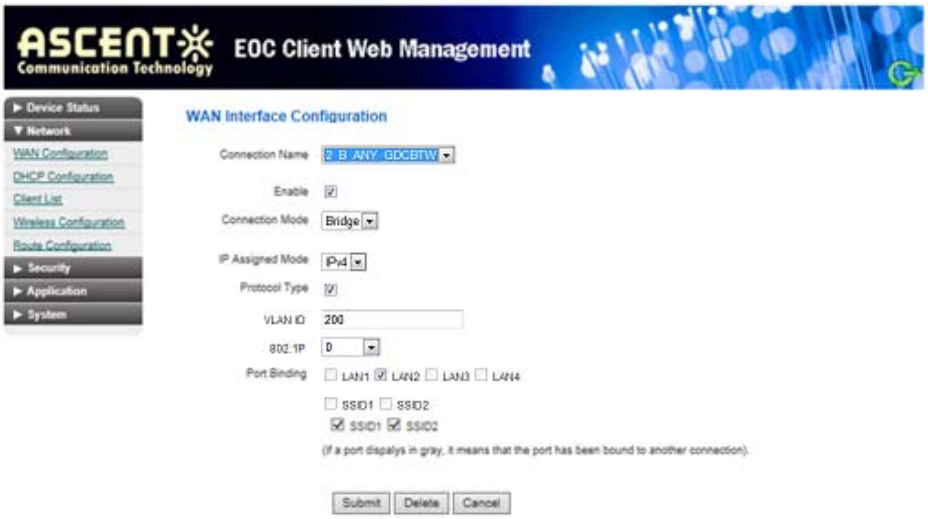


Figure 3.2.2.3: Bridge Connection Mode

With the router connection mode, user can select IP connection mode, such as Static IP, DHCP or PPPoE. When the DHCP is selected, the EoC client will get the IP address from the Uplink network DHCP server.

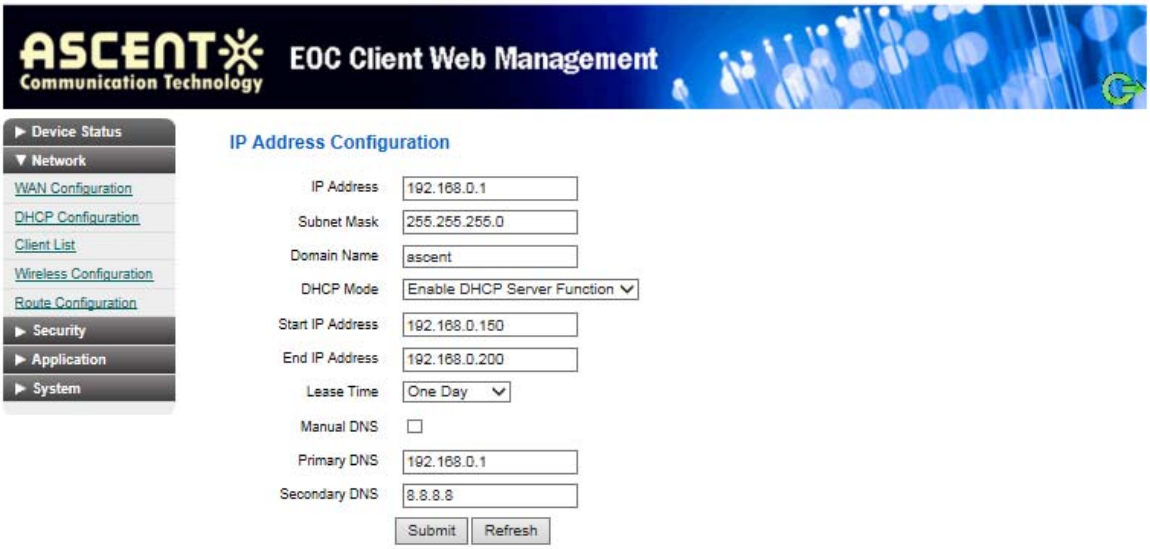


Figure 3.2.2.4: DHCP Mode

The following diagram shows how to config a static IP mode.

- IP address: WAN port Static IP address
- Default Gateway: This gateway IP address should be in the same sub network as the WAN IP address as the above.

Figure 3.2.2.4: Static IP Mode

With the router connection mode, user can also select IP connection based on PPPoE. User will need to put int PPPoE user name and password.

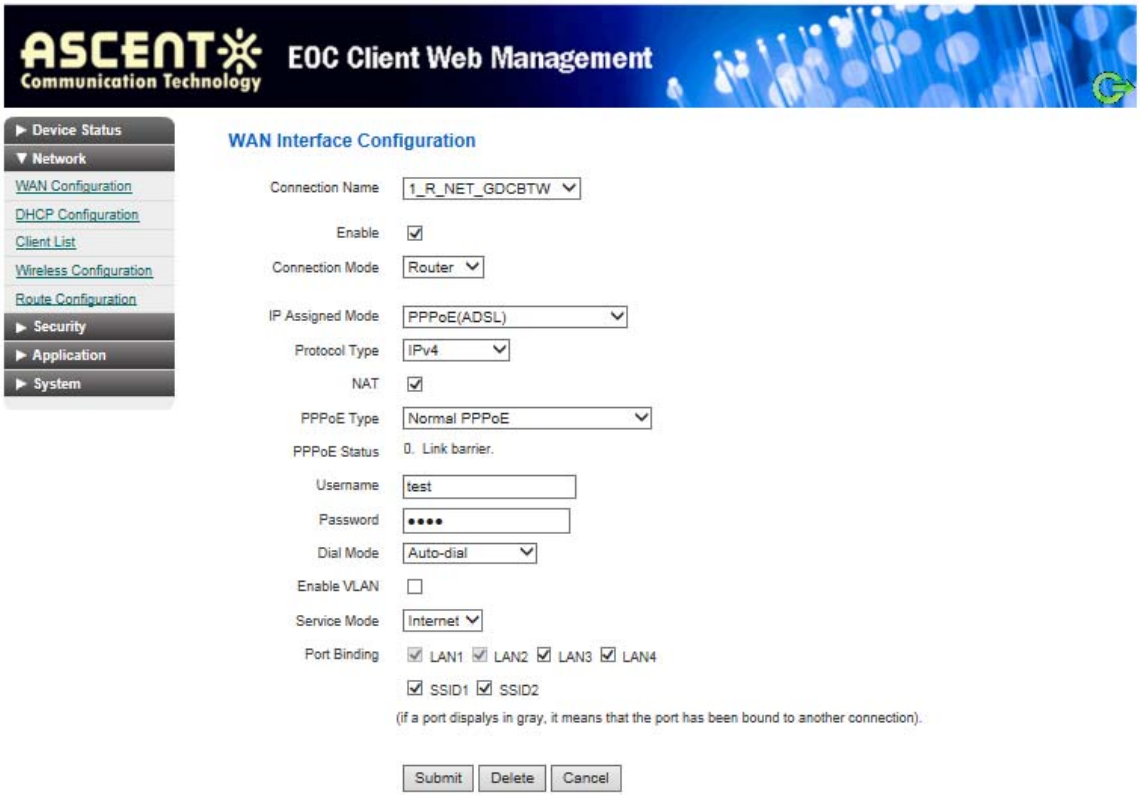


Figure 3.2.2.5: PPPoE Mode

DHCP Configuration: Under this selection, user can configure the DHCP function for the EoC Wifi Client.

- IP address: the default IP address is 192.168.0.1 When the DHCP Server is enabled, if user need to change this IP address, the Start and End IP address will also need to be changed so that they are in the same sub network as the DHCP server.

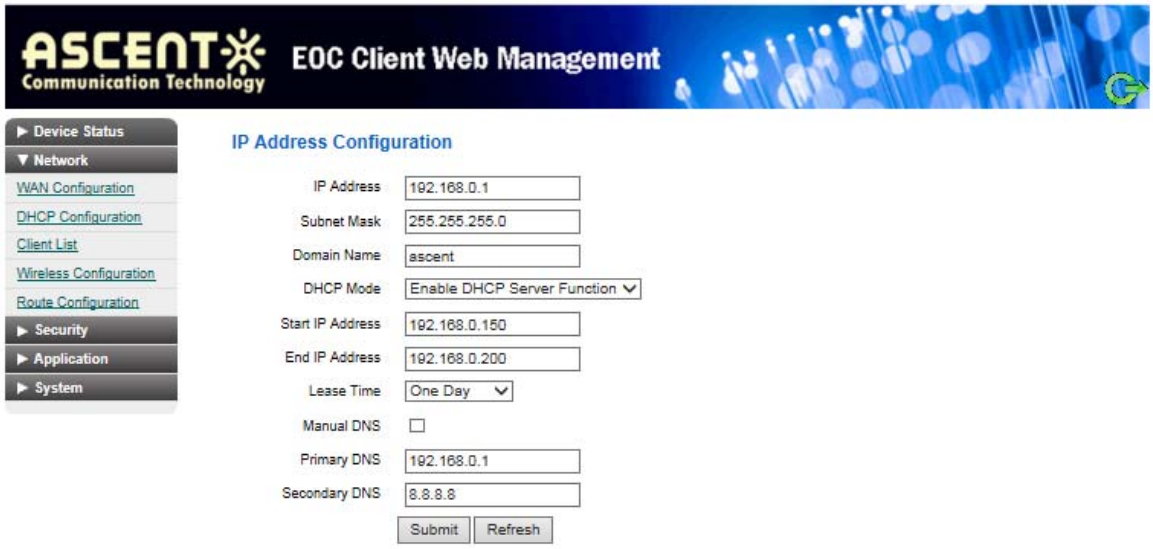


Figure 3.2.2.6: DHCP Configuration

WLAN Basic Configuration: Under this selection, user can configure the wireless LAN function for the EoC Wifi Client.

- SSID: When WIFI WLAN is enabled, user can change the SSID to the name that they prefer.

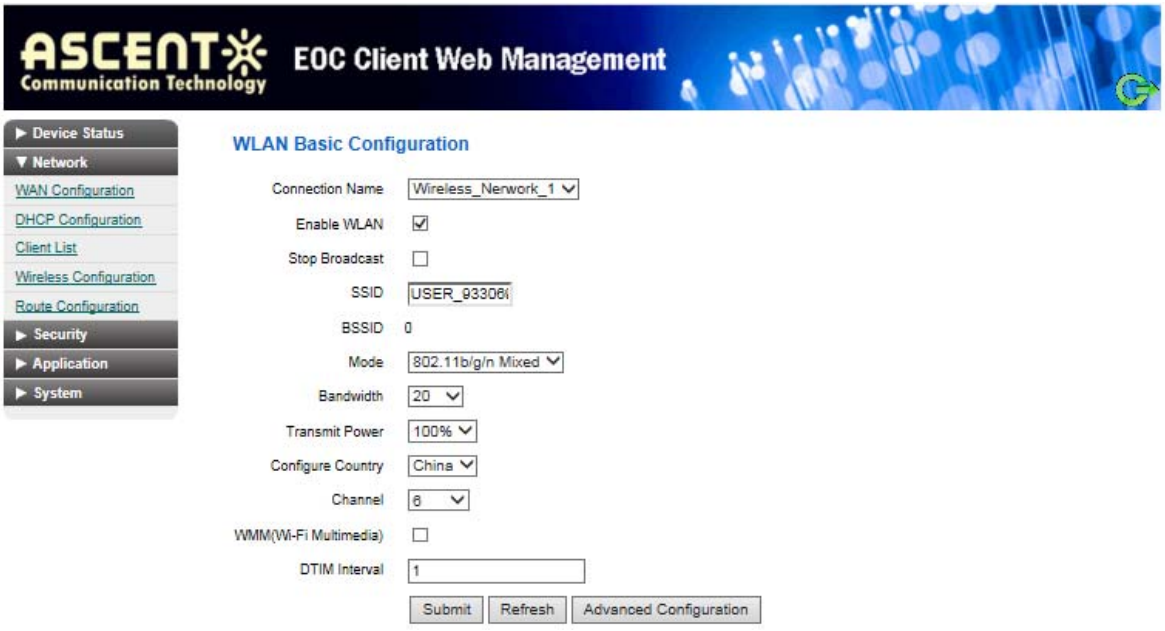


Figure 3.2.2.7: Basic WLAN Configuration

WLAN Security Configuration: Under this selection, user can configure the wireless LAN Security setting for the EoC Wifi Client.

- WPA/WPA2: WPA pre shared key is the one that user need to login to the EoC wifi Client. The password key has a minimum requirement for 8 digits.

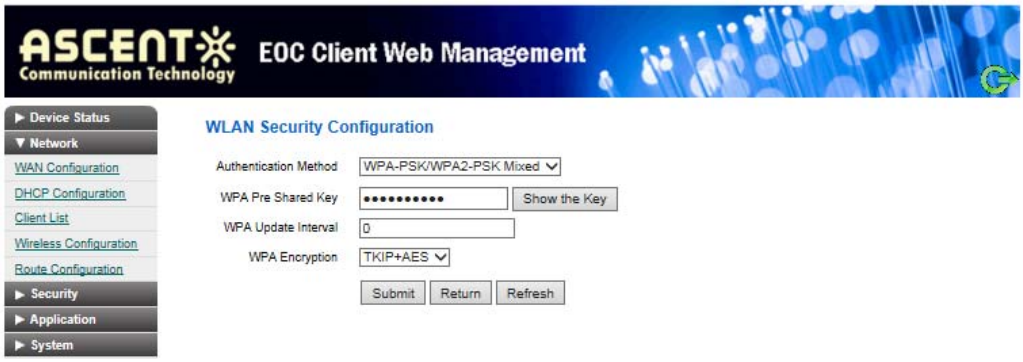


Figure 3.2.2.8: WLAN Security Configuration

Routing Configuration: Under this selection, user can configure the Router setting for the EoC Wifi Client. There are two setting options: Static Route and Dynamic Route.

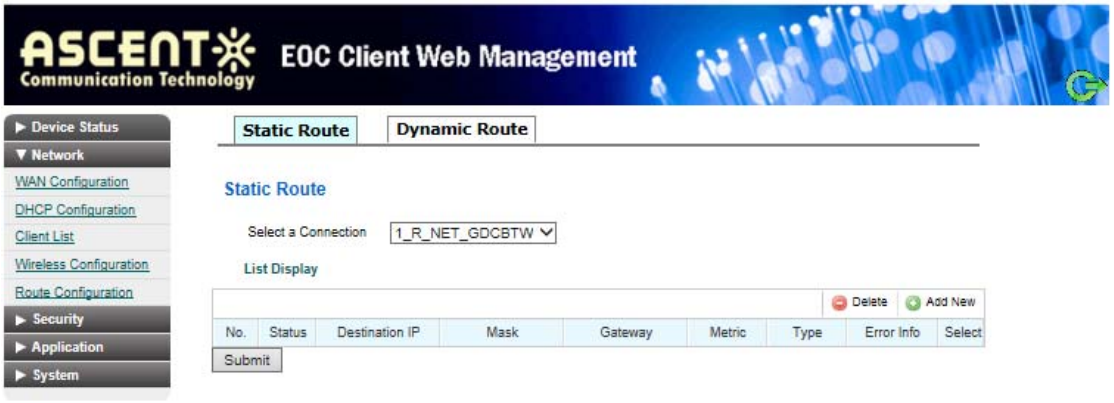


Figure 3.2.2.9: Routing Configuration

3.2.3. Security Setting

This page shows Security setting information for the WIFI EoC Client device. There are three sub pages: URL Filtering, Port Filtering, MAC Filtering.

URL Filtering: User can config the URL filtering rules under this web page. If URL mode is Blacklist, all the URL in the list can not pass, all other URLs can pass. If URL mode is Whitelist, all the URL in the list can pass and all other URLs cannot pass.

Figure 3.2.3.1: URL Filtering Information

Port Filtering: User can config the Port filtering function under this web page. If Port filtering mode is Blacklist, all the IP address and port in the list can not pass, all others can pass. If Port mode is Whitelist, all the IP address and port in the list can pass and all other URLs cannot pass.

Figure 3.2.3.2: Port Filtering Information

MAC Filtering: User can config the MAC filtering function under this web page. If MAC filtering mode is Blacklist, all the MAC in the list can not pass, all other MAC address can pass. If MAC mode is Whitelist, all the MAC in the list can pass and all other MAC address cannot pass.

Caution: If the designated PC in the whitelist is no longer in service, the wifi client will not be accessible. User will need to reset the unit to the factory default.

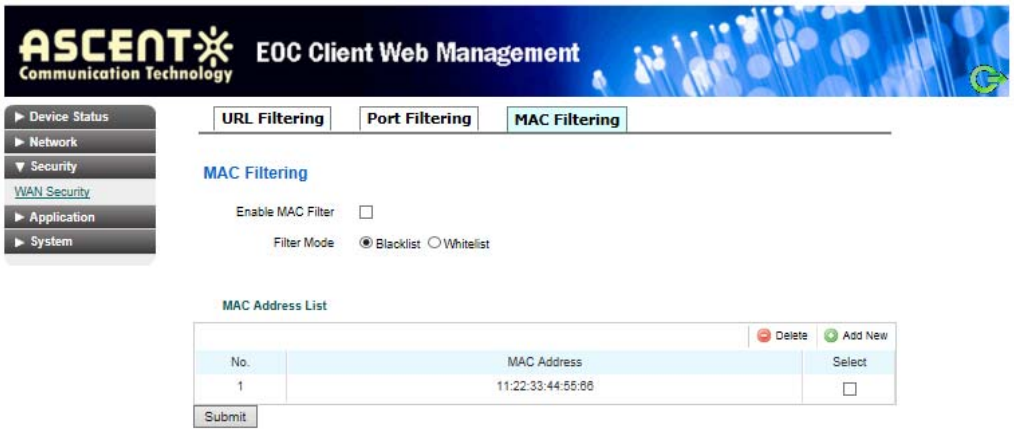


Figure 3.2.3.3: MAC Filtering Information

3.2.4. Application Management

Under “Application Configuration” page, it shows WIFI EoC Client application management function, such as DNS, MAC address clone, NAT etc.

Dynamic DNS Config: User can config the DNS under this web page.

Attribute	Description
DDNS	Enable / Disable DDNS Service
Service Provider	Provider for the DDNS service
DDNS Data	Host Name（PhLinux3.Oray.Net）
	User Name
	Password

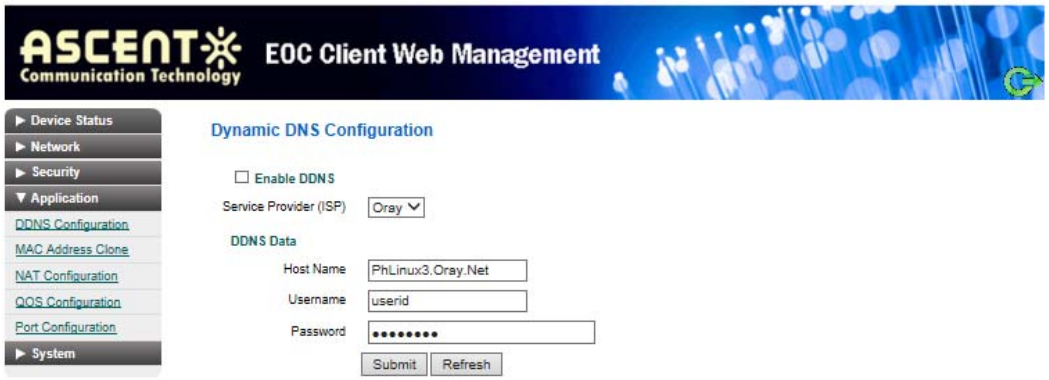


Figure 3.2.4.1: Dynamic DNS configuration

MAC address Clone: User can clone the MAC address under this web page.

Original MAC address is the MAC address that is used by the current WAN port.

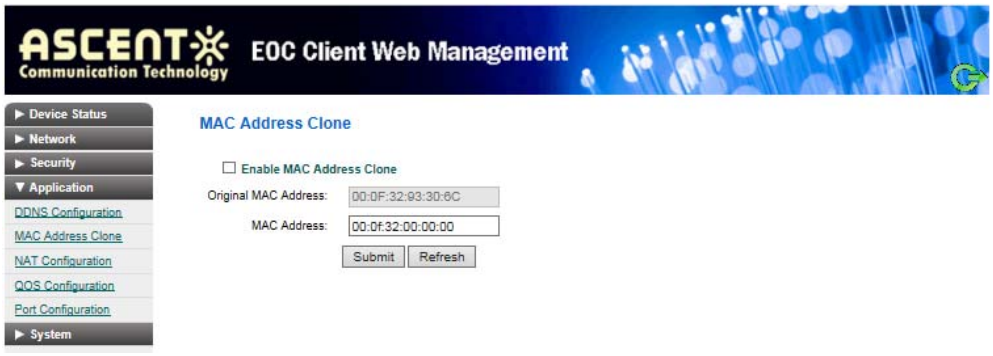


Figure 3.2.4.2: MAC address Clone configuration

NAT DMZ Configuration: User can set the DMZ settings under this web page.

Figure 3.2.4.3: NAT configuration

QoS Configuration: User can setup the QoS under this web page.

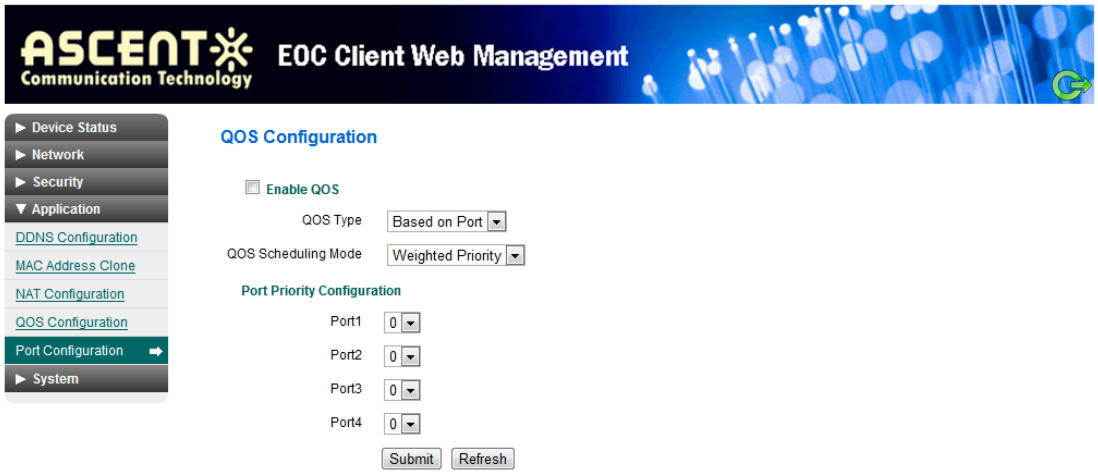


Figure 3.2.4.4: QoS configuration

Port Configuration: User can setup the Speed limit for each port under this web page.

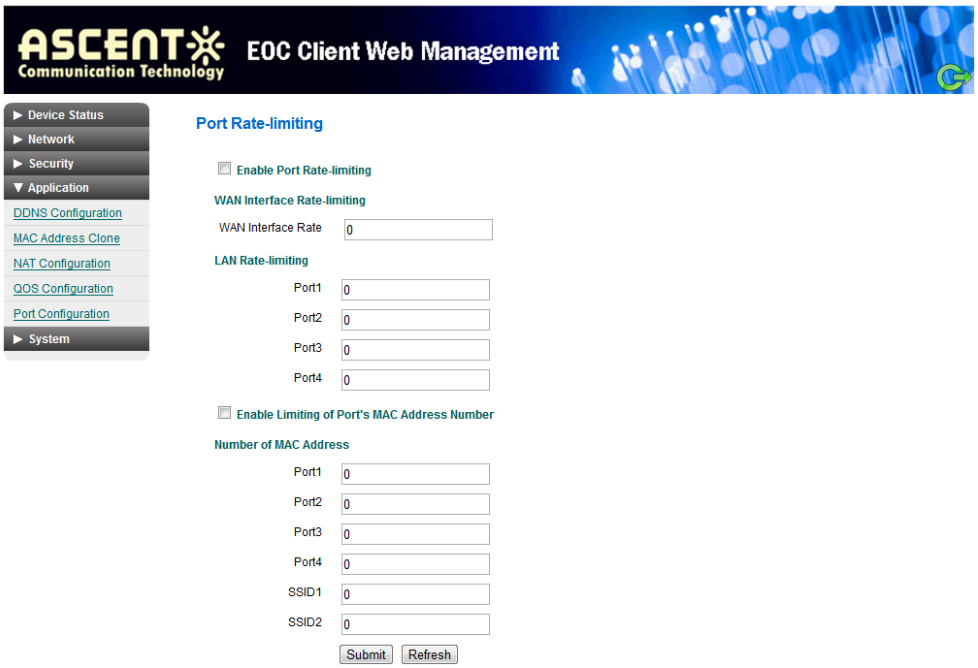


Figure 3.2.4.5: Port configuration

3.2.5. Application Management

Under “Application Configuration” page, user can load factory default settings, setup the system time, user account and log files.

Device Reboot: User can load factory default setting and reboot under this web page.

Caution: All the current settings will be erased after resetting default setting. User will need to backup the configuration in advance.

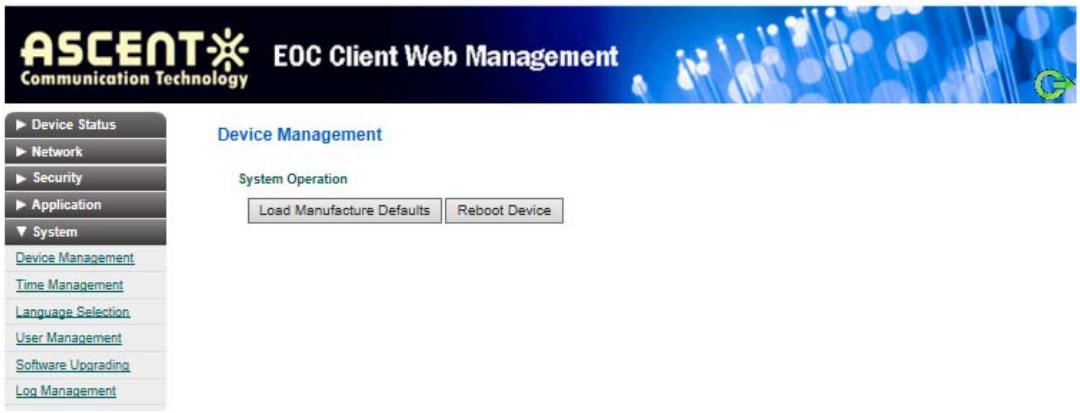


Figure 3.2.5.1: Device Reboot configuration

Time Setting: User can setup system time under this web page.

Figure 3.2.5.2: system time configuration

User Account Configuration: User can manage user account under this web page.

Caution: Admin account can not be edited by the subscriber. This is to setup the user account information.

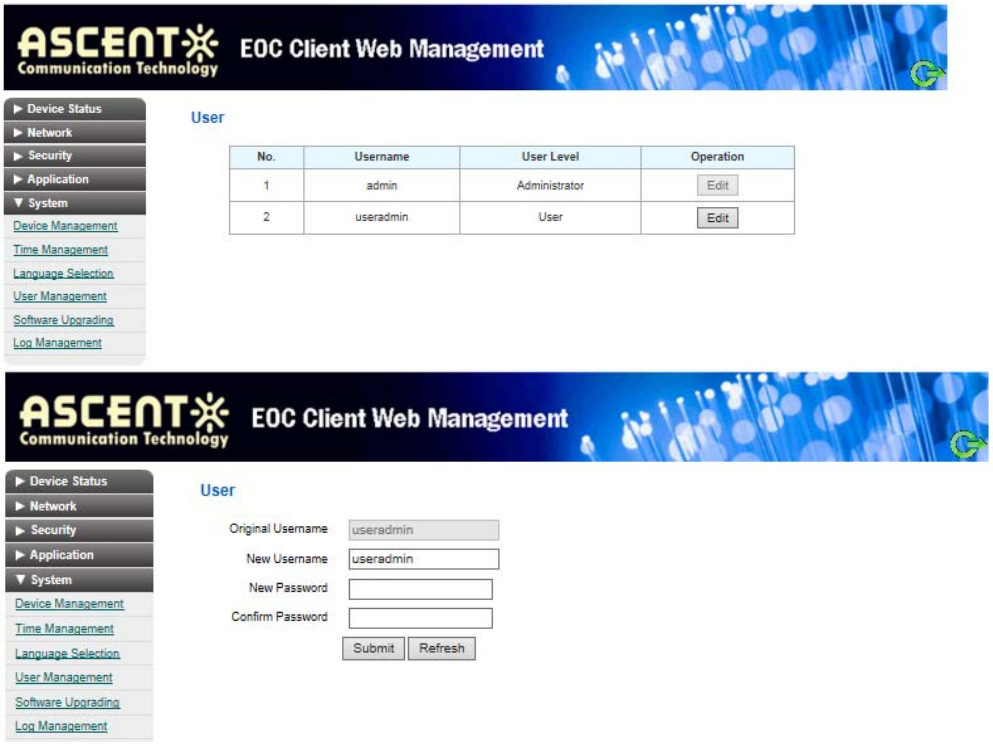


Figure 3.2.5.3: user account configuration

Firmware Upgrade: User can upload the client software under this web page.

Caution: Use only official firmware from Ascent. Make sure the link to the PC is in good connection and the whole process will take 1 or 2 minutes.

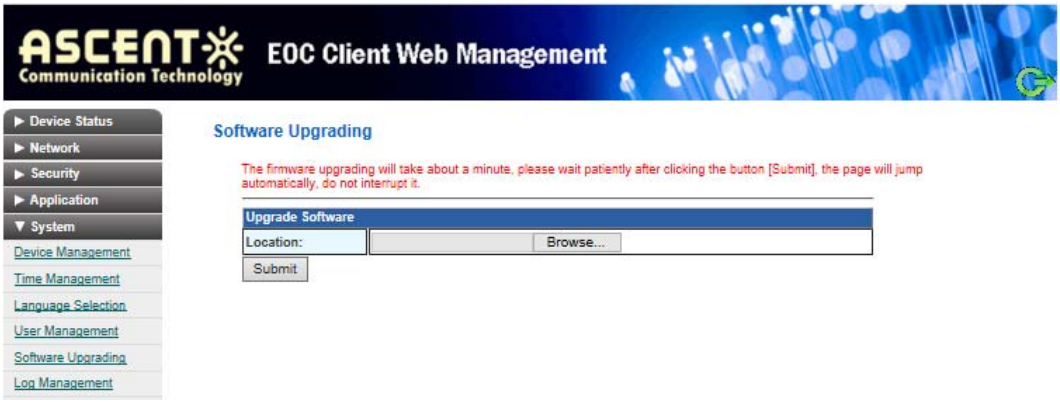


Figure 3.2.5.4: firmware configuration

System Log: User can check the log information under this web page, such as system reboot, upgrade, WAN port modification etc.

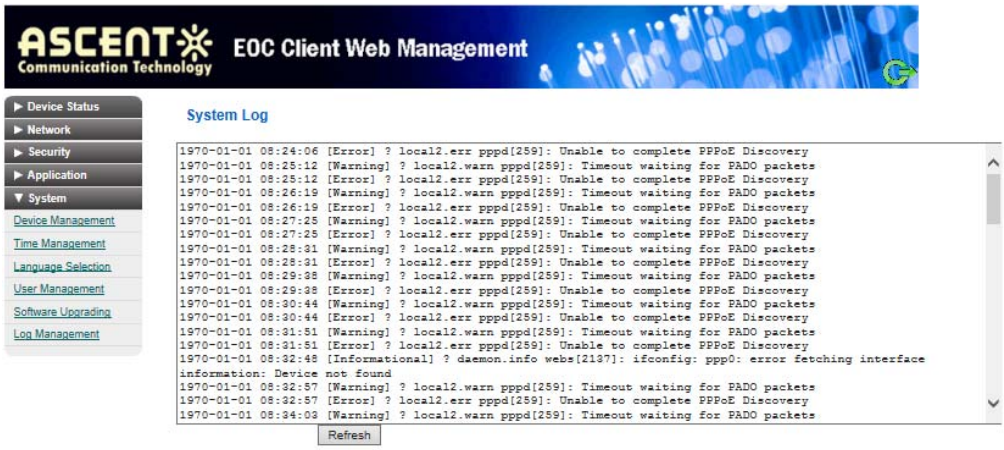


Figure 3.2.5.5: system log information

4. Trouble shooting

NO LED Light

If none of the LED light is on, check the power adapter and power plug to make sure the EoC master or client is properly powered. Check the power on/off button on client is pushed on.

VLAN Setting

If the EoC Client can communicate with EoC Master but not the the uplink WAN network, the problem may reside at the VLAN setting for the Client. Please check the client template VLAN setting. See section 2.2.4

LAB Test Setting

During the initial lab testing, if the same computer is used to setup the EoC Master and then used to test the EoC Client through the Client LAN port, it will take about 10 mins for the EoC Client to sync the MAC address with the EoC master.

Solution: Power cycle the EoC Client can refresh the MAC and expedite the process.

Restore Factory Default Setting

To reset the EoC master or client to factory default setting, press the RESET button for more than 5 seconds. Check EoC Master and Client configuration for default IP address and user login information.

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