

User's Manual



HD Voice Conference IP Phone with PSTN (3-Line)

▶ VIP-8030NT



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As this is a class B device, in a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

Energy Saving Note of the Device

This power required device does not support standby mode operation. For energy saving, please remove the DC-plug or push the hardware Power Switch to OFF position to disconnect the device from the power circuit.

Without removing the DC-plug or switching off the device, the device will still consume power from the power circuit. In view of Saving the Energy and reducing the unnecessary power consumption, it is strongly suggested to switch off or remove the DC-plug from the device if this device is not intended to be active.

WEEE Warning



To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

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Revision

User's Manual of PLANET SIP IP Phone

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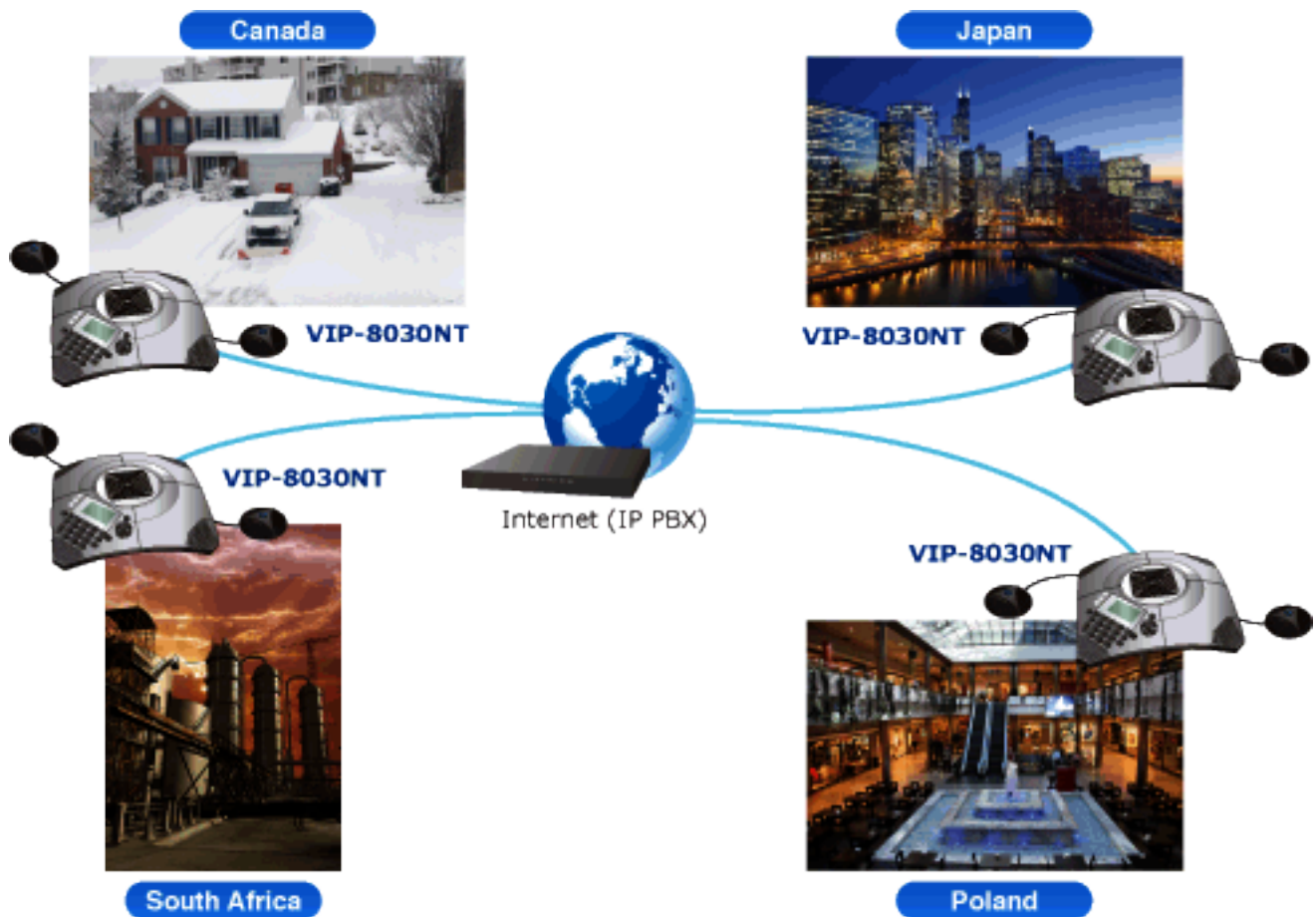
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Chapter 1. Introduction

High-definition Voice Conferencing for Rooms of Any Size

In a world where conference calls with partners, vendors, remote workers and global teams are on the rise, PLANET VIP-8030NT HD voice conference IP phone is perfectly designed for use in middle to large conference rooms. The VIP-8030NT delivers superb voice quality, expansive microphone pickup and advanced audio processing. Its integrated, special microphones ensure that your interlocutors feel as if you are sitting in the neighboring office, not on the other side of the world!



Free Calls to All Over the World

Extended Microphone Makes Communication Clearer

Although there are four microphones built in the VIP-8030NT, the communication between the two speakers could be unclear over a long-distance call. However, with the extended microphone, this problem could be solved. The extended microphone also provides a quick button to isolate speaker's voice, thereby the contents of the speakers will not be exposed to the third party.



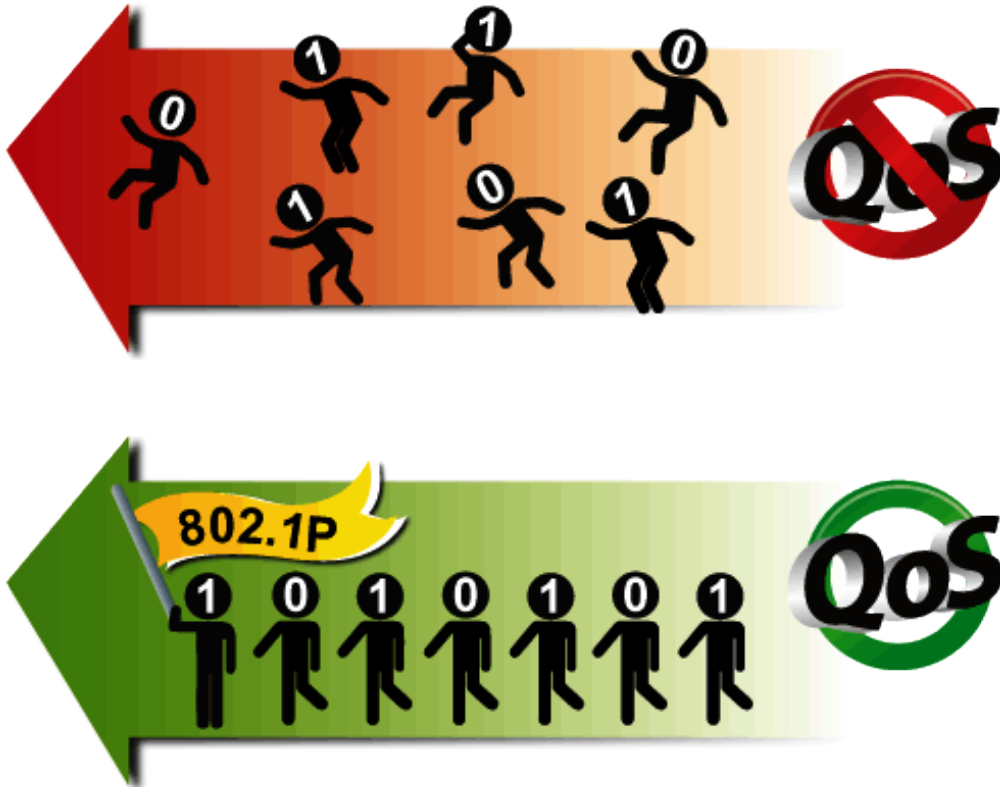
Recorded Conference Contents Saved on SD Card

The VIP-8030NT transmits power and voice over the RJ45 cable and has a special specification that helps to avoid an incorrect cable plug-in. The VIP-8030NT can start a conference with the RJ45 cable, meaning no extra cable is necessary. The contents of the conference can be recorded and saved on the SD card, where the recorded contents can be played.



Secure, High-quality VoIP Communication

The VIP-8030NT can effortlessly deliver secured toll voice quality by voice or SIP QoS (Quality of Service) and 802.1PQ VLAN tagging. Using voice and data VLAN can easily separate the data and voice, thus maintaining the best quality.



1.1 Features

➤ Highlights

- ◆ Supports 3 SIP voice lines
- ◆ Supports HD voice
- ◆ 128 x 64 pixel LCD display with ivory backlight
- ◆ 3-way conferencing
- ◆ Echo cancellation, hi-fi technology of wideband voice communication
- ◆ Connection type for add-on microphones for a larger recording range

➤ Network Protocol

- ◆ SIP V1 (RFC2543), V2 (RFC3261)
- ◆ Voice codec support: G.711, G.726, G.729, iLBC, GSM
- ◆ Supports STUN, outbound proxy
- ◆ Static IP/DHCP for IP configuration
- ◆ 3 DTMF modes: In-band, RFC2833, SIP info
- ◆ HTTP/HTTPS Web server for management

- ◆ NTP for auto time setting

➤ **Telephone Features**

- ◆ Supports 3 SIP accounts
- ◆ Built-in SD card for recording
- ◆ Recording file can be played on the unit
- ◆ Speaker volume with adjustable 14 levels reaches 90db
- ◆ Call Hold, Call Waiting, Call Forward, Hotline
- ◆ Caller ID display, DND, auto-answer
- ◆ Stores 64 groups of incoming calls and outgoing calls
- ◆ FSK/DTMF Caller-ID detection and display
- ◆ Intelligent speech mixer and dynamic noise suppression

1.2 Application

VoIP Conference Call

The VIP-8030NT provides audio conference service to any meeting room and auditorium. Its built-in SD card helps record any important meetings.



IP PBX Mode

The VIP-8030NT features IP PBX mode to deliver voice over a network and interoperates with the normal

Public Switched Telephone Network (PSTN).



1.3 Product Specifications

Model	VIP-8030NT	
Hardware		
Port	LAN	1 x 100BASE-TX RJ-45 for LAN
	PC	1 x 100BASE-TX RJ-45 for PC
	EXT-MIC	2 x RJ9 for microphone
Audio Input	4 x microphone	
Audio Output	1 x full duplex hands-free speakerphone	
LED indicator	4 x power LED 3 x SIP LED	
Software		
Audio Standard	G.711, G.726, G.729, iLBC, GSM	
Network Protocol	SIP 2.0 RFC 3261, TCP/IP, UDP, RTP, HTTP, ARP, ICMP, DNS, DDNS, DHCP(client), NTP, Telnet	
Echo Cancellation	G.168	
Access Mode	Static IP, PPPoE, DHCP	
Phone Features		
Network	DHCP Client on LAN Main DNS and secondary DNS server NTP Client QoS with DiffServ	
Basic Features	3 SIP servers Voice Gain Setting, VAD, CNG Supports jitter buffer Supports SIP domain, SIP authentication (none, basic) DNS name of server, Peer to Peer/IP call DTMF Relay: Supports Inbound, SIP info, RFC2833 Supports STUN Volume adjustment Professional Speaker and HD voice	

SIP Applications	Call Forward Call Transfer (blind/attended/alert) Call Holding Call Waiting Call Paging and Intercom Call Park/Pickup Redial Click to dial
Call Control Features	Do Not Disturb (DND) Auto Answer Caller ID Dial without registration
Advanced Applications	Friendly graphic menu Voice recording during talking, auto answer and local incoming calls, outgoing calls and missing calls. Supports Phonebook 140 records
Management	Web and keypad management Management with different account rights Automatic upgrades/configuration deployment

1.4 Physical Specifications and Packaging

Physical Specifications

➤ **Dimensions**

Dimensions (W x D x H)	305 x 305 x 64 mm
Net Weight	1298g (without package)

BASIC PACKAGING

- Conference IP Phone Unit
- Power Unit
- Quick Installation Guide
- RJ45 Cable x 1
- Power Cord x 1
- RJ11 Cable x 1
- RJ9 Cable x 2
- Extended Microphone x 2
- Desiccant x 3

1.5 Keypad

➤ **Keypad, LED and definitions**



Number	Description
1	LCD (128 x 64 pixel)
2	Microphone x 4
3	Keypad (including SIP key, VoIP key, conference key...)
4	Speaker (volume up to 90db and 14 levels adjustable)
5	LED (Blue indicates dialing; red indicates mute function)

➤ **Interface Description**





SD / SDHC	Record conference call, maximum size 4GB class4.
EXT-MIC2	Connect to the second extended microphone
EXT-MIC1	Connect to the first extended microphone
POWER	Connect to power unit via RJ45 cable; the length is 6.5 meters.
LAN	10/100M -- Connect it to Network
PC	10/100M -- Connect it to PC

Package Information

Dimensions (W x D x H)	425 x 154 x 335 mm
Weight	3.82 kg (gross weight)
Carton Dimensions (W x D x H)	641 x 441 x 360 mm
Carton Weight	15.28kg (gross weight)
Carton Unit	4 pcs.

1.6 Default Setting

Default WAN IP	172.16.0.1
Default Subnet Mask	255.255.0.0
Default Gateway	172.16.0.254
Default PC IP	192.168.0.1
Default Login User Name	admin
Default Login Password	123

Chapter 2. Initial Connection and Login

The package should contain the following items plus VIP-6040PT. If any item is missing or damaged, please contact the seller immediately.

1 x Quick Installation Guide



1x Power Adapter



1x AC Power Cord



1 x RJ-45 cable for power



1 x RJ11 cable for PSTN



2 x RJ9 cable for extended microphone

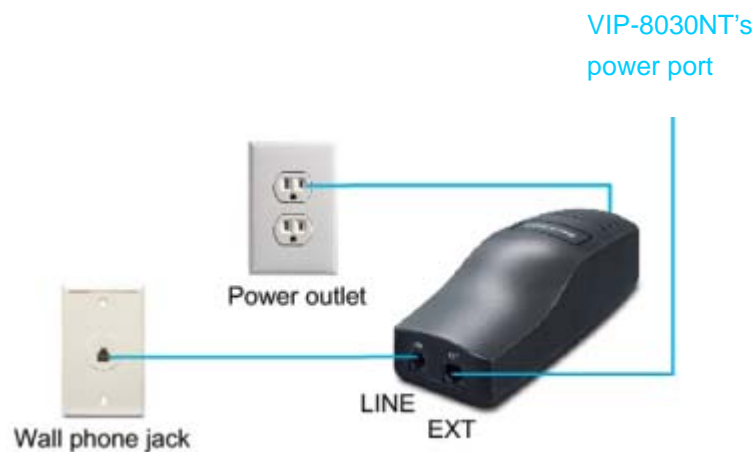


2 x Extended Microphone



Step 1. Connecting power and PSTN line

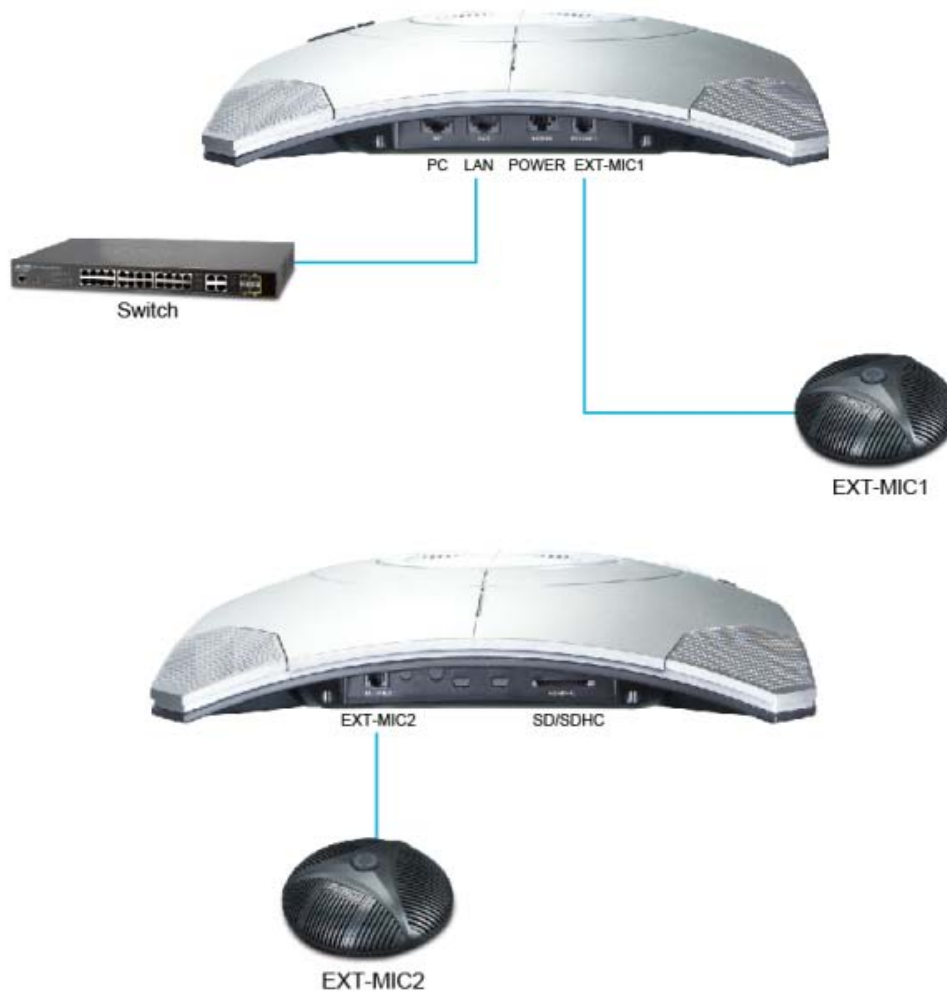
1. Plug power cable into the ext. jack of the power unit and the other end into the power jack of the VIP-8030NT.
2. Plug the RJ11 cable into the line jack on the AC adapter and the other end into a telephone wall jack.
3. Plug the AC power cord into the AC power outlet.



Step 2. Connecting network and extended microphone

1. Plug one end of the RJ45 cable into the switch and the other end into the LAN port of the VIP-8030NT. The default IP is **172.16.0.1**.

2. Plug the extended microphones into the EXT1 and EXT2 jacks of the VIP-8030NT. And place the extension microphones to a proper location for optimal voice communication.



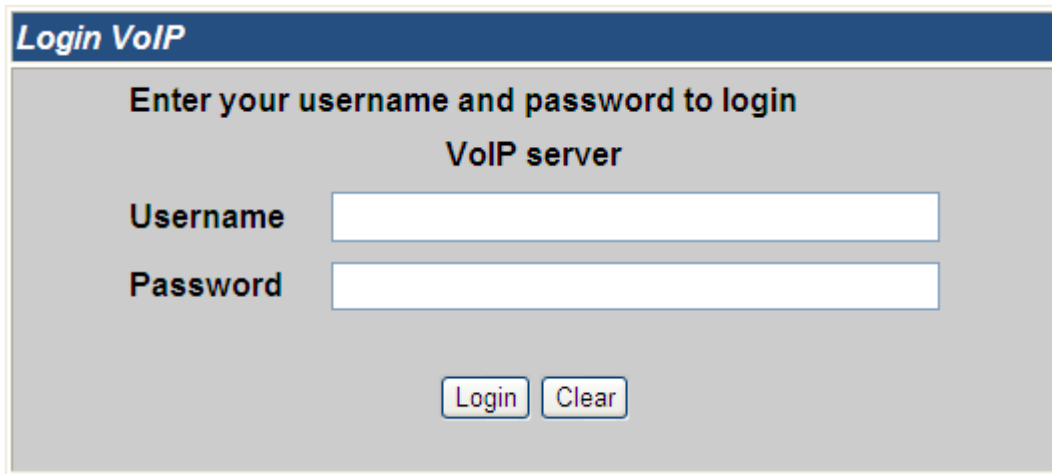
Step 3. Using search utility to find the VIP-8030NT

The VIP-8030NT supports Planet smart discovery utility where it can be used to easily find the IP of the VIP-8030NT. You can download it on Planet website (<http://www.planet.com.tw/en/support/download.php>).

Step 4. Login Prompt

Use Web browser (Internet Explorer 8.0 or above) to connect to **172.16.0.1** (type this address in the address bar of Web browser). When connecting to PC port, you need to key-in **192.168.0.1** in the address bar of Web browser.

Users are prompted to input user name and password: **admin** and **123**



The image shows a web-based login form for a VoIP server. The form has a dark blue header with the text "Login VoIP" in white. Below the header, the text "Enter your username and password to login" is centered, followed by "VoIP server". There are two input fields: "Username" and "Password". Below the input fields are two buttons: "Login" and "Clear".

Chapter 3. Web Configuration

3.1 Instructions of the Web Environment

3.1.1 Pre-settings

3.1.1.1 Network settings

Network Mode: Default NAT Mode

WAN Port: Fixed IP Mode, for example, **172.16.0.1**

LAN Port (PC Port): DHCP Server, IP Address: **192.168.0.1**

3.1.1.2 Web Page

Web Login page, for example, <http://192.168.0.1>

➤ Login Account:

- Administrator's Right: Login Account: admin, Password: 123
- Special Right: Login Account: system, Password: 123
- Normal Right: Login Account: user, Password: 123



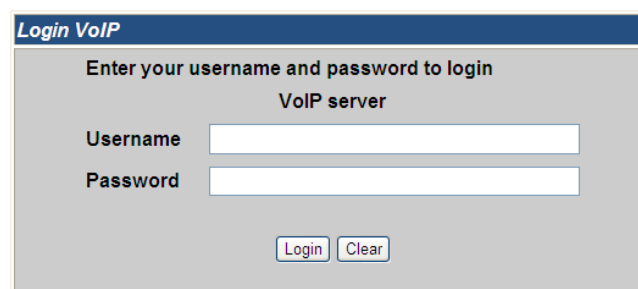
Some setting not allow normal user used, e.g. System->Advanced setting

3.1.2 Login VoIP Web Page

3.1.2.1 Functions

It provides login system management page.

3.1.2.2 Instructions



Username	Input user's name -- can be numerals or letters.
Password	Input password -- can be numerals or letters.
Login [Button]	Login the system
Clear [Button]	Clear all information.

3.1.2.3 Operating Instructions

Step 1: Open IE, input IP address [for example, <http://192.168.0.1>] and then enter.

Step 2: Login [Login VoIP] page, input “admin” for both Username and Password and then press [Login].

Login VoIP

Enter your username and password to login
VoIP server

Username

Password

Step 3: After logging in to the system, the System Information will appear.

PLANET

Networking & Communication

Home

SIP

Network

System

Phone Book

Features

Update

Welcome To Home Page!

System Information

This page illustrate the system related information.

Model Name:	VIP-8030NT
Firmware Version:	Tue Nov 18 11:53:13 2014 (1003116)
Codec Version:	Mon Mar 25 15:19:23 2013 (1303250)

3.2 VoIP Setting

3.2.1 Functions

It provides SIP Setting, Network Setting, System Setting, Phone Book, Features Setting, Update, Save and Reboot.

3.2.2 Instructions

PLANET

Networking & Communication

Home

SIP

Network

System

Phone Book

Features

Update

Welcome To Home Page!

System Information

This page illustrate the system related information.

Model Name:	VIP-8030NT
Firmware Version:	Tue Nov 18 11:53:13 2014 (1003116)
Codec Version:	Mon Mar 25 15:19:23 2013 (1303250)

System Information

LABEL	DESCRIPTION
SIP	Provides Profile, Port Setting, Codec Setting, Codec ID Setting, DTMF Setting, RPort Setting, Stun Setting and other Settings.
Network	Provides Network Status, WAN Setting, LAN Setting, DDNS Setting, VLAN Setting, DMZ Setting and Virtual Server.
System	Provides Authentication Setting, Auto Config Setting, FXO Port Setting, Mac Clone Setting, Tone Setting, Advanced Setting, Log, Auto Answer Setting and Dial Plan Setting.
Phone Book	Provides Phone Book and Speed Dial (for Phone)
Features	Provides CallFwd Setting, Volume Setting, Rngtone Setting, DND Setting, Flash Timing, CallWaiting Setting, Softkey Setting, Hotline Setting and Alarm Setting.
Update	Provides Firmware, Auto Update and Default Setting
Save	Save the change.
Reboot	Restart the system.

3.2.3 Functions

View Model Name, Firmware Version, Codec Version, etc.

3.2.4 Instructions

System Information

This page illustrate the system related information.

Model Name:	VIP-8030NT
Firmware Version:	Tue Nov 18 11:53:13 2014 (1003116)
Codec Version:	Mon Mar 25 15:19:23 2013 (1303250)

Model Name	Shows the name of the equipment
Firmware Version	Shows the RISC version information, e.g., Tue Nov 18 11:53:13 2014 (1003116).
Codec Version	Show the DSP version information, e.g., Mon Mar 25 15:19:23 2013 (1303250).

3.3 Save Change

3.3.1 Functions

When the web page information is changed, please make sure to save the change by clicking [Submit]. After all the changes are done, the system should be restarted. [Save change]-- [Save Change Setting] -- [Save].

3.3.2 Operating Instructions

Step 1: On the main page, select [Networks→WAN Settings] and enter [WAN Settings] page; after changing the information, press [Submit].

WAN Settings

You could configure the WAN settings in this page.

LAN Mode:	<input type="radio"/> Bridge <input checked="" type="radio"/> NAT
WAN Setting	
IP Type:	<input checked="" type="radio"/> Fixed IP <input type="radio"/> DHCP Client <input type="radio"/> PPPoE
IP:	<input type="text" value="192.168.1.54"/>
Mask:	<input type="text" value="255.255.255.0"/>
Gateway:	<input type="text" value="192.168.1.254"/>
DNS Type:	<input checked="" type="radio"/> Fixed <input type="radio"/> Auto
DNS Server1:	<input type="text" value="168.95.1.1"/>
DNS Server2:	<input type="text" value="8.8.8.8"/>
MAC:	<input type="text" value="00304f58516b"/>
Host Name:	<input type="text"/>

Step 2: After saving the changes, the “dialog box” will be seen.

Note Information

This page inform user important information.

Configure OK.
You have to **save** and **reboot** the VoIP to effect those changes.

Step 3: On the main page, press the save button on the upper right corner to make the change effective.

Save Changes

You have to save changes to effect them.

Save Changes:

Step 4: The [dialog box] page will appear, meaning it has been saved successfully. The system will reboot automatically. Please wait for a second.

Note Information

This page inform user important information.

Configure OK.

System will reboot automaitcally to effect those changes and please wait for a moment while rebooting....

Chapter 4. SIP Setting

It provides Profile, Port Setting, Code Setting, Codec ID Setting, DTMF Setting, RPort Setting, Stun Setting, and other Settings.

4.1 Service Domain

4.1.1 Functions

Service Domain provides 3 entries information and status.

4.1.2 Instructions

Service Domain Settings


You could set information of service domains in this page.

Realm No.: Realm 1 ▼

Realm	
Active:	<input type="radio"/> On <input checked="" type="radio"/> Off
Display Name:	<input style="width: 90%;" type="text"/>
User Name:	<input style="width: 90%;" type="text"/>
Register Name:	<input style="width: 90%;" type="text"/>
Register Password:	<input style="width: 90%;" type="text"/>
Domain Server:	<input style="width: 90%;" type="text"/>
Proxy Server:	<input style="width: 90%;" type="text"/>
Outbound Proxy:	<input style="width: 90%;" type="text"/>
Subscribe for MWI:	<input type="radio"/> On <input checked="" type="radio"/> Off
Status:	Not Registered

Submit
Reset

Realm 1 (Default)	Default: Realm1. Please press "1*" and hang up the phone when transferring to the 1 st registered number.
Active	Default: OFF. When setting to ON, registered account will be active.
Display Name	Can be numerals or characters. Maximum length: 31
User Name	Can be numerals or characters. Maximum length: 31
Register Name	Can be numerals or characters. Maximum length: 31
Register Password	Can be numerals or characters. Maximum length: 31
Domain Server	Input Domain Server information. Can be IP Address or Domain Name. Format: xxx.xxx.xxx.xxx ;Maximum length is 63 bytes. If special Port Address is needed, please add it. For example, voip.planetddns.com

Proxy Server	Input Proxy Server information. Can be IP Address or Domain Name. Format: xxx.xxx.xxx.xxx ;Maximum length is 63 bytes. If special Port Address is needed, please add it. For example, voip.planetddns.com
Outbound Proxy	Input Outbound Proxy information. Can be IP Address or Domain Name. Format: xxx.xxx.xxx.xxx ; Maximum length is 63 bytes. If special Port Address is needed, please add it. For example, voip.planetddns.com
Subscribe to MWI	Subscribe to MWI function  Your Registered SIP Proxy server must support this function.
Status	Not Registered (failed), Registered (Successfully)

4.1.3 Instructions

Example 1: Register SIP Proxy Port number: 5060

Step 1: On the main page, select [SIP→ Profile] and enter [profile] page. After revising the information (e.g., Active: On, Display Name: 800, User Name: 800, Register Name: 800, Register Password: 800800, Domain Server: 210.61.134.91, Proxy Server: 210.61.134.91, Outbound Proxy: 210.61.134.91, Subscribe to MWI: off), click [Submit].

Service Domain Settings

You could set information of service domains in this page.

Realm No.: Realm 1

Realm	
Active:	<input checked="" type="radio"/> On <input type="radio"/> Off
Display Name:	<input type="text" value="800"/>
User Name:	<input type="text" value="800"/>
Register Name:	<input type="text" value="800"/>
Register Password:	<input type="password" value="....."/>
Domain Server:	<input type="text" value="210.61.134.91"/>
Proxy Server:	<input type="text" value="210.61.134.91"/>
Outbound Proxy:	<input type="text" value="210.61.134.91"/>
Subscribe for MWI:	<input type="radio"/> On <input checked="" type="radio"/> Off
Status:	Registered

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective. When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step: 4: If PAGE NOT FOUND appears after re-login, please press [Embedding Home Page](#) to go to the access page.

Note Information

This page inform user important information.

Configure OK.

You have to re-login.

PAGE NOT FOUND

The requested URL was not found on this server.

*VoIP System Embedded WEB Server 1.0, 2005
Web Server for Embedded Applications
[Embedding Home Page](#)*

Example 2: Start Subscribe to MWI

Step 1: On the main page, select [SIP→ Profile], start Subscribe to MWI, (e.g., Subscribe to MWI: on) and then click [Submit].

Service Domain Settings

You could set information of service domains in this page.

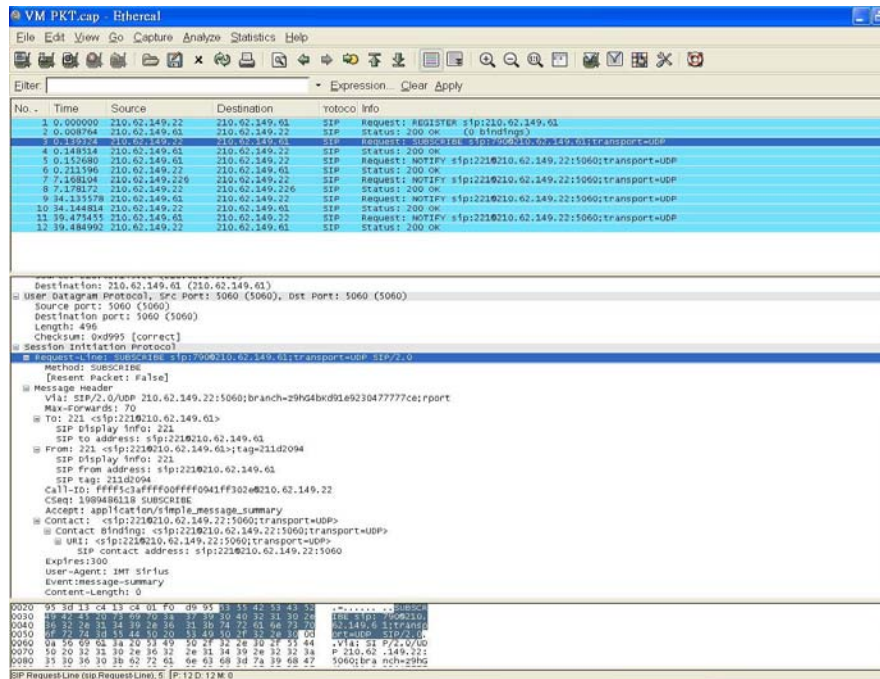
Realm No.: Realm 1 ▾

Realm	
Active:	<input checked="" type="radio"/> On <input type="radio"/> Off
Display Name:	<input type="text" value="800"/>
User Name:	<input type="text" value="800"/>
Register Name:	<input type="text" value="800"/>
Register Password:	<input type="password" value="....."/>
Domain Server:	<input type="text" value="210.61.134.91"/>
Proxy Server:	<input type="text" value="210.61.134.91"/>
Outbound Proxy:	<input type="text" value="210.61.134.91"/>
Subscribe for MWI:	<input checked="" type="radio"/> On <input type="radio"/> Off
Status:	Registered

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective. When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: After rebooting the system, and when making call to another equipment, please check the [Ethereal] and [Request: Subscribe] information.



1. Ethereal has been renamed to wireshark.
2. Please refer Appendix install wireshark program.
3. Below several samples also use Ethereal explaining.

4.2 Port Setting (SIP and RTP Settings)

4.2.1 Functions

Port Setting provides SIP and RTP port number information.

4.2.2 Instructions

Port Settings

You could set the port number in this page.

SIP Port:	<input type="text" value="5060"/>	(0~65533)	(Set 0 for auto, range as bellow)
RTP Port:	<input type="text" value="20000"/>	(0~65533)	(Set 0 for auto, range as bellow)
SIP Port Range:	<input type="text" value="10000"/>	~	<input type="text" value="10999"/> (1024~40000)
RTP Port Range:	<input type="text" value="20000"/>	~	<input type="text" value="21999"/> (1024~40000)

SIP Port	Default: 5060; display the SIP number information. Only numerals are accepted. Data range: (10~65533). Maximum length: 5 bytes.
RTP Port	Default: 60000; display the RTP number information. Only numerals are accepted. Data range: (10~65533). Maximum length: 5 bytes.
SIP Port Range	Default: 10000~10999; provides the range of SIP Port (1024~40000).
RTP Port Range	Default: 20000~21999; provides the range of RTP Port (1024~40000).
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

4.2.3 Operating Instructions

Step 1: On the main page, select [SIP→ Port] and enter [Port] page. After revising the information (e.g., SIP Port: 5060, RTP Port: 6000), click [Submit].

Port Settings

You could set the port number in this page.

SIP Port:	<input type="text" value="5060"/>	(0~65533)	(Set 0 for auto, range as bellow)
RTP Port:	<input type="text" value="20000"/>	(0~65533)	(Set 0 for auto, range as bellow)
SIP Port Range:	<input type="text" value="10000"/>	~	<input type="text" value="10999"/> (1024~40000)
RTP Port Range:	<input type="text" value="20000"/>	~	<input type="text" value="21999"/> (1024~40000)

Step 2: On the main page, press the “save” button on the upper right corner to make the change effective. When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

4.3 Codec Setting

4.3.1 Functions

Code Setting provides Codec priority, RTP Packet Length and Voice VAD function.



iLBC and G.723 cannot exist at the same time.

4.3.2 Instructions

Codec Settings

You could set the codec settings in this page.

Codec Priority	
Codec Priority 1:	G.711 a-law ▼
Codec Priority 2:	G.711 u-law ▼
Codec Priority 3:	G.729 ▼
Codec Priority 4:	iLBC ▼
Codec Priority 5:	Not Used ▼
Codec Priority 6:	Not Used ▼
Codec Priority 7:	Not Used ▼
Codec Priority 8:	Not Used ▼
Codec Priority 9:	Not Used ▼

RTP Packet Length	
G.711 & G.729:	40 ms ▼
iLBC:	30 ms ▼

Voice VAD	
Voice VAD:	<input type="radio"/> On <input checked="" type="radio"/> Off

Codec Priority	Set the Codec Priority.
Codec Priority 1	Default: G.711 u-law; Codec Priority 1. Not used, G.711u-law, G.711a-law, G.723, G.279, G.726–16, G.726–24, G.726–32, G.726–40, GSM mode.
Codec Priority 2	Default: G.711a-law; Codec Priority 2
Codec Priority 3	Default: G.729; Codec Priority 3
Codec Priority 4	Default: iLBC; Codec Priority 4
Codec Priority 5	Default: Not Used; Codec Priority 5

Codec Priority 6	Default: Not Used; Codec Priority 6
Codec Priority 7	Default: Not Used; Codec Priority 7
Codec Priority 8	Default: Not Used; Codec Priority 8
Codec Priority 9	Default: Not Used; Codec Priority 9.
RTP Packet Length	Provides RTP Packet Length information.
G.711 & G.729	Default: 20 ms; G.711 & G.729 Packet length. Provides 10ms, 20ms, 30ms, 40ms,50ms, 60ms, 70ms, 80ms, 90ms mode.
iLBC	Default: 30 ms; G.723 Packet Length. Provides 30ms, 60ms, 90ms mode.
Voice VAD	Default: OFF. When setting to ON, Voice Active Detection (VAD) will be active; provides ON and OFF mode.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

4.3.3 Operating Instructions

Step 1: On the main page, select [SIP → Codec] and enter [Codec] page. After revising the information (e.g., Codec Priority 1: G.729, Priority 2: G.711a-law, Priority 3: G.711ulaw, Priority 4: iLBC, Priority 5: G.726-16, Priority 6: G.726-24, Priority 7: G.726 32, Priority 8: G.726 40, Priority 9: GSM, G.711 and G.279: 60ms, iLBC: 30ms, Voice VAD: on), click [Submit].

Codec Settings

You could set the codec settings in this page.

Codec Priority

Codec Priority 1:	<input type="text" value="G.711 a-law"/>
Codec Priority 2:	<input type="text" value="G.711 u-law"/>
Codec Priority 3:	<input type="text" value="G.729"/>
Codec Priority 4:	<input type="text" value="iLBC"/>
Codec Priority 5:	<input type="text" value="Not Used"/>
Codec Priority 6:	<input type="text" value="Not Used"/>
Codec Priority 7:	<input type="text" value="Not Used"/>
Codec Priority 8:	<input type="text" value="Not Used"/>
Codec Priority 9:	<input type="text" value="Not Used"/>

RTP Packet Length

G.711 & G.729:	<input type="text" value="40 ms"/>
iLBC:	<input type="text" value="30 ms"/>

Voice VAD

Voice VAD: On Off

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective. When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: After rebooting and making call to equipment, the new Codec mode will be adopted.

4.4 Codec ID Settings

4.4.1 Functions

Codec ID Setting provides G726, RFC2833 and iLBC etc. Type ID information.

4.4.2 Instructions

Codec ID Setting

You could set the value of Codec ID in this page.

Codec Type	ID	Default Value
G726-16 ID:	<input type="text" value="23"/> (95~255)	<input checked="" type="checkbox"/> 23
G726-24 ID:	<input type="text" value="22"/> (95~255)	<input checked="" type="checkbox"/> 22
G726-32 ID:	<input type="text" value="2"/> (95~255)	<input checked="" type="checkbox"/> 2
G726-40 ID:	<input type="text" value="21"/> (95~255)	<input checked="" type="checkbox"/> 21
RFC 2833 ID:	<input type="text" value="101"/> (95~255)	<input checked="" type="checkbox"/> 101
iLBC ID:	<input type="text" value="97"/> (95~255)	<input checked="" type="checkbox"/> 97

Codec Type	Display the value of Codec ID information. Provides G726-16, G726-24, G726-32, G726-40, RFC2833 and iLBC information.
G726-16 ID	Display G726-16 ID information.
ID	Display the current ID: 23. When changing the ID, please close (Default Value) column. Only numerals are accepted. Data range (95~255). Maximum length: 3 bytes.
Default Value	23.
G726-24 ID	Display G726-24 information.
ID	Default: 22. Only numerals are accepted. Data range (95~255). Maximum length: 3 bytes.
Default Value	97.
G726-32 ID	Display G726-32 information.
ID	Default: 2. Only numerals are accepted. Data range (95~255). Maximum length: 3 bytes.

Default Value	23.
G726-40 ID	Display G726-40 information.
ID	Default: 21. Only numerals are accepted. Data range (95~255). Maximum length: 3 bytes.
Default Value	21.
RFC 2833 ID	Display RFC 2833 information.
ID	Default: 101. Only numerals are accepted. Data range (95~255). Maximum length: 3 bytes.
Default Value	101.
iLBC ID	Display iLBC information.
ID	Default: 97. Only numerals are accepted. Data range (95~255). Maximum length: 3 bytes.
Default Value	97.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

4.4.3 Operating Instructions

Step 1: On the main page, select [SIP →Codec ID] and enter [Codec ID] page. After revising the information (e.g., RFC 2833 ID Default Value: Disable, ID: 96), click [Submit].

Codec ID Setting

You could set the value of Codec ID in this page.

Codec Type	ID	Default Value
G726-16 ID:	<input type="text" value="23"/> (95~255)	<input checked="" type="checkbox"/> 23
G726-24 ID:	<input type="text" value="22"/> (95~255)	<input checked="" type="checkbox"/> 22
G726-32 ID:	<input type="text" value="2"/> (95~255)	<input checked="" type="checkbox"/> 2
G726-40 ID:	<input type="text" value="21"/> (95~255)	<input checked="" type="checkbox"/> 21
RFC 2833 ID:	<input type="text" value="101"/> (95~255)	<input checked="" type="checkbox"/> 101
iLBC ID:	<input type="text" value="97"/> (95~255)	<input checked="" type="checkbox"/> 97

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective. When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

4.5 DTMF Settings

4.5.1 Functions

DTMF Setting provides three kinds of DTMF modes: RFC2833, In Band DTFM and Send DTMF SIP Info.

4.5.2 Instructions

DTMF Setting

You could set the DTMF setting in this page.

RFC 2833

Inband DTMF

Send DTMF SIP Info

RFC2833	Default: RFC 2833 ; Transfer DTMF mode information. Provides RFC2833.
In band DTMF	Transfer DTMF mode information. Provides In Band.
Send DTMF SIP Info	Transfer DTMF mode information. Provides SIP Info.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

4.5.3 Operating Instructions

Example 1: RFC2833

Step 1: On the main page, select [SIP→DTMF] and enter [DTMF] page. After revising the information (e.g., RFC2833), click [Submit].

DTMF Setting

You could set the DTMF setting in this page.

RFC 2833

Inband DTMF

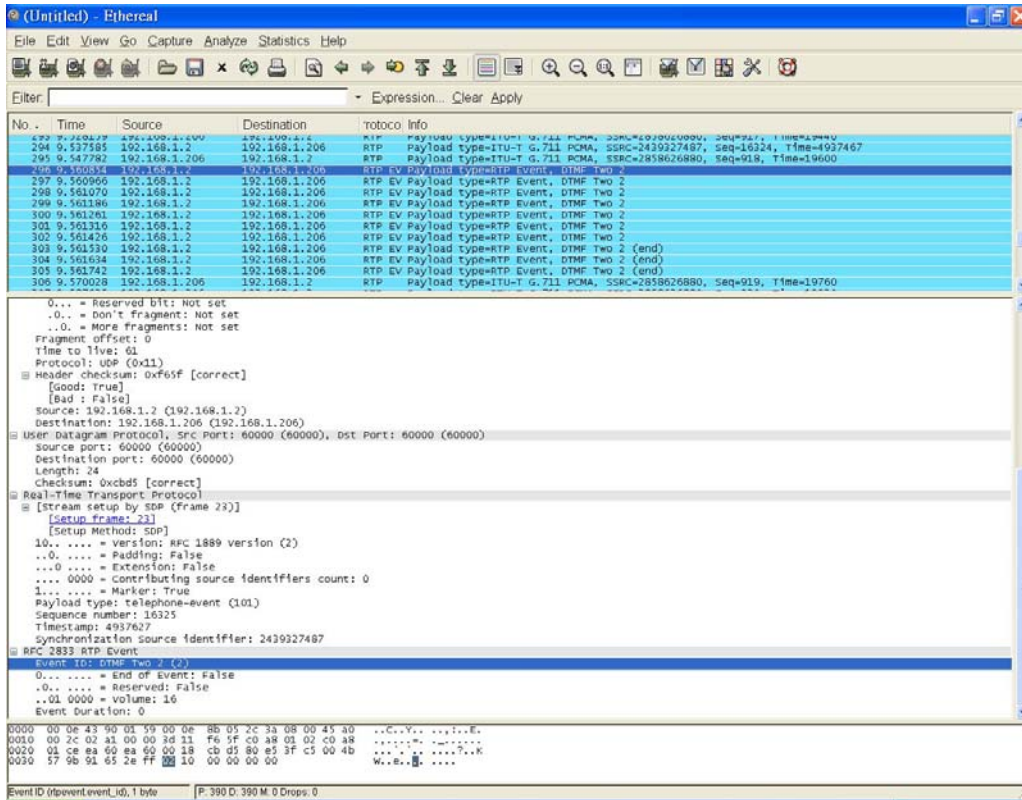
Send DTMF SIP Info

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective. When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: After rebooting and making call to another equipment, press DTMF (e.g.:222); please check [Ethereal]

Packet and [RTP EV, Payload Type=RTP Event, DTMF xx] column.



1. Ethereal has been renamed to wireshark.
2. Please refer Appendix install wireshark program.
3. Below several samples also use Ethereal explaining.

Example 2: InBand DTMF

Step 1: On the main page, select [SIP→DTMF] and enter [DTMF] page. After revising the information (e.g., InBand DTMF), click [Submit].

DTMF Setting

You could set the DTMF setting in this page.

RFC 2833
 Inband DTMF
 Send DTMF SIP Info

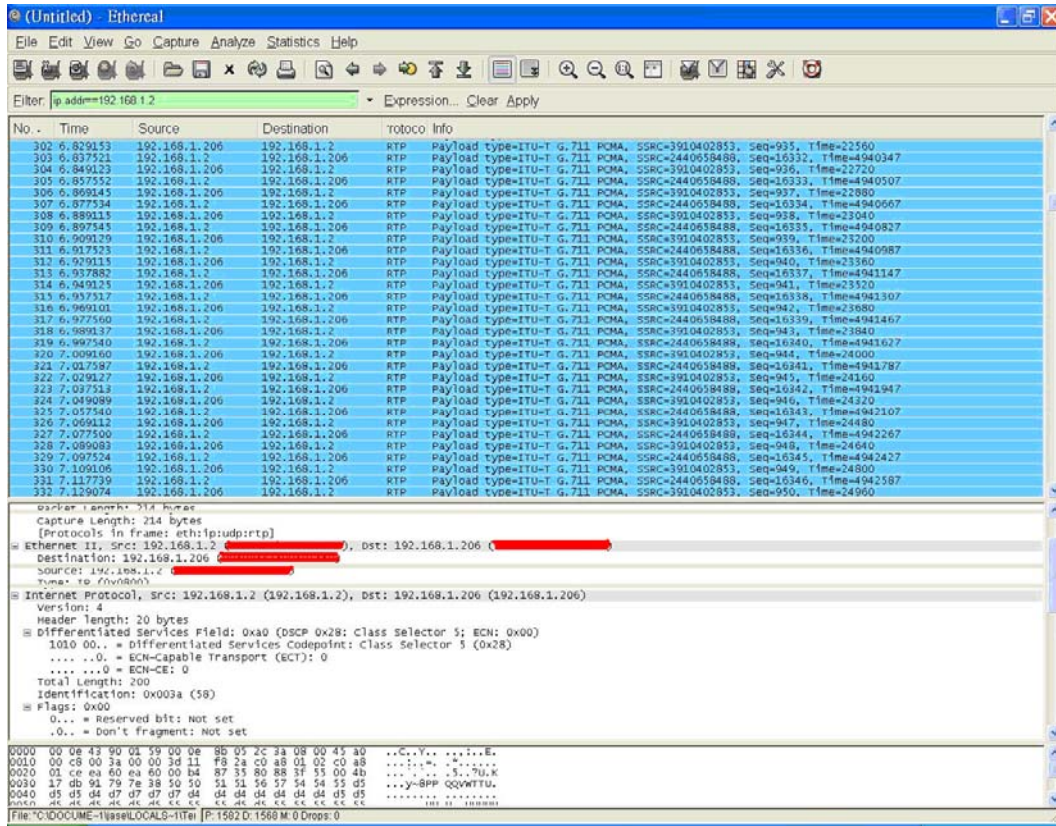
Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective.

When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: After rebooting and making call to another equipment, press DTMF (e.g.: 222); please check [Ethereal]

Packet. Because of [In-Band] mode, nothing will be found in the Packet.



Example 3: Send DTMF SIP Info

Step 1: On the main page, select [SIP→DTMF] and enter [DTMF] page. After revising the information (e.g., Send DTMF SIP info), click [Submit].

DTMF Setting

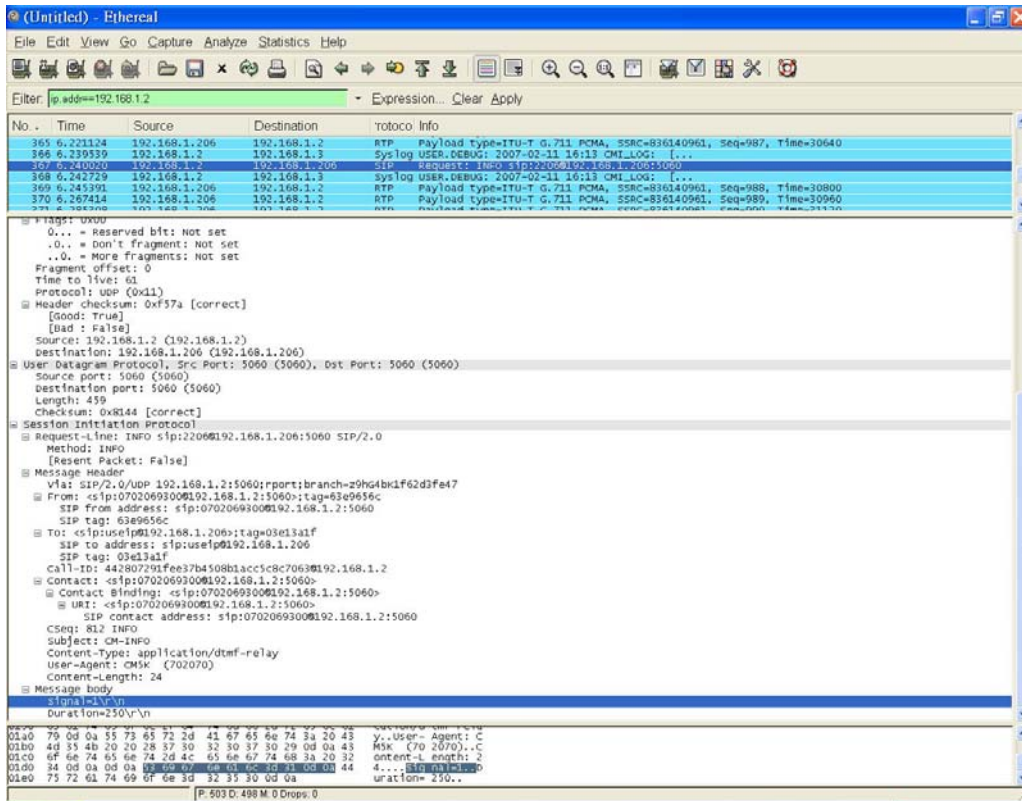
You could set the DTMF setting in this page.

RFC 2833
 Inband DTMF
 Send DTMF SIP Info

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective. When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: After rebooting and making call to another equipment, press DTMF (e.g.:111); please check [Ethereal] Packet and [SIP, Request: INFO SIP: xxxx] column.



4.6 RPort Setting

4.6.1 Function

RPort Setting provides RPort Setting.

4.6.2 Instructions

RPort Setting

You could enable/disable the RPort setting in this page.

RPort: On Off

RPort	Default: O. When setting to ON, RPort setting will be active. It provides ON and OFF modes.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

4.6.3 Operating Instructions

Step 1: On the main page, select [SIP→RPort] and enter [Rport] page. After revising the information (e.g.: RPort: on), click [Submit].

RPort Setting

You could enable/disable the RPort setting in this page.

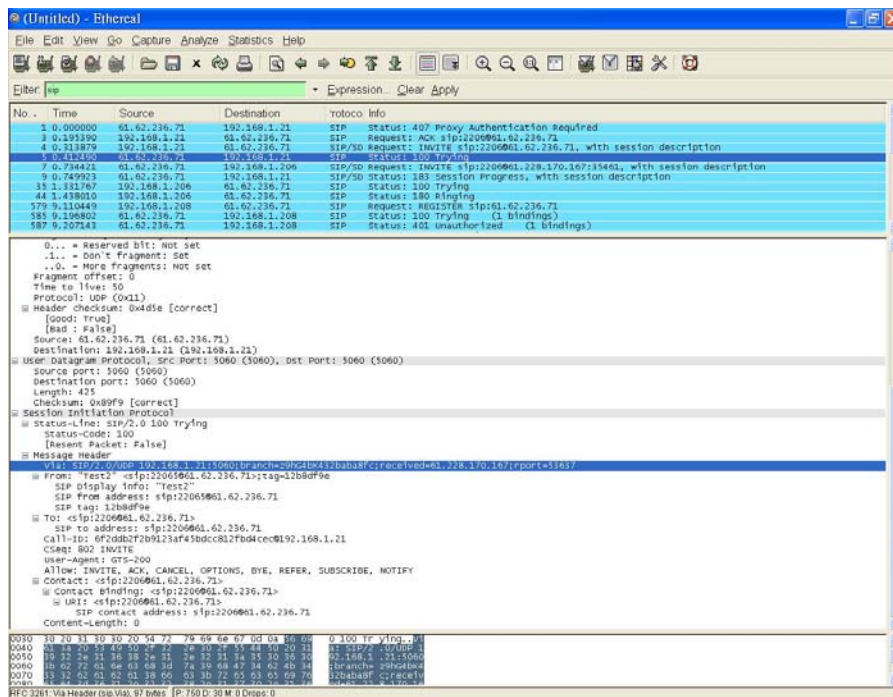
RPort: On Off

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective.

When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: After rebooting and making call to another equipment, please check [Ethereal] Packet and [Message Hearer] with the tag “received” and “rport” in “Via” column. That is used for recording IP Address and Port Number.



The screenshot shows the Wireshark interface with a packet capture of a SIP INVITE. The packet list pane shows:

No.	Time	Source	Destination	Protocol	Info
1	0.000000	61.62.236.71	192.168.1.21	SIP	Status: 407 Proxy Authentication Required
2	0.003950	192.168.1.21	61.62.236.71	SIP	Request: ACK sip:2206961.62.236.71
4	0.313879	192.168.1.21	61.62.236.71	SIP/SD	Request: INVITE sip:2206961.62.236.71, with session description
7	0.734421	61.62.236.71	192.168.1.208	SIP/SD	Request: INVITE sip:2206961.228.170.167:35461, with session description
9	0.749923	61.62.236.71	192.168.1.21	SIP/SD	Status: 183 Session Progress, with session description
33	1.331767	192.168.1.208	61.62.236.71	SIP	Status: 100 Trying
44	1.438010	192.168.1.208	61.62.236.71	SIP	Status: 180 Ringing
379	9.210440	192.168.1.208	61.62.236.71	SIP	Request: MESSAGE sip:61.62.236.71
383	9.108802	61.62.236.71	192.168.1.208	SIP	Status: 100 Trying (1 bindings)
387	9.207441	61.62.236.71	192.168.1.208	SIP	Status: 401 Unauthorized (1 bindings)

The packet details pane for the selected packet (No. 4) shows:

- IP: 61.62.236.71 (61.62.236.71)
- Destination: 192.168.1.21 (192.168.1.21)
- User Datagram Protocol, Src Port: 5060 (5060), Dst Port: 5060 (5060)
- Session Initiation Protocol
 - status-line: sip/2.0/100 trying
 - status-code: 100
 - Reason-Phrase: [false]
 - Message Header
 - From: <test@61.62.236.71>[sip:2206961.62.236.71];tag=11888;received=192.168.1.208
 - SIP Display Info: "Test"
 - SIP From address: sip:2206961.62.236.71
 - SIP tag: 11888;received=192.168.1.208
 - To: <test@61.62.236.71>
 - SIP to address: sip:2206961.62.236.71
 - call-id: 6fcd5b2f2b91234f5bdcc812fbd4cc@192.168.1.21
 - CSeq: 802 INVITE
 - User-Agent: GTP-300
 - Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, REFER, SUBSCRIBE, NOTIFY
 - Contact: <test@61.62.236.71>
 - Contact binding: <test@61.62.236.71>
 - URI: <test@61.62.236.71>
 - SIP contact address: sip:2206961.62.236.71
 - Content-length: 0

4.7 STUN Setting

4.7.1 Functions

STUN Setting could set the IP of STUN Server information.

4.7.2 Instructions

STUN Setting

You could set the IP of STUN server in this page.

STUN: On Off

STUN Server:

STUN Port: (80~65535)

Force Public IP: On Off

Public IP address:

Port: (80~65535)

STUN	Default: Off. When setting to ON, STUN will be active.
STUN Server	Default: stun.xten.com; Can be IP Address or Domain Name. Format: xxx.xxx.xxx.xxx ; Maximum length: 63 bytes.
STUN Port	Default: 3478; Data range: (1024~65535); Maximum length: 5 bytes.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

4.7.3 Operating Instructions

Step 1: On the main page, select [SIP→STUN] and enter [STUN] page. After revising the information (e.g., STUN: On, STUN Server: stun.xten.com, SUTN Port: 3478), click [Submit].

STUN Setting

You could set the IP of STUN server in this page.

STUN: On Off

STUN Server:

STUN Port: (80~65535)

Force Public IP: On Off

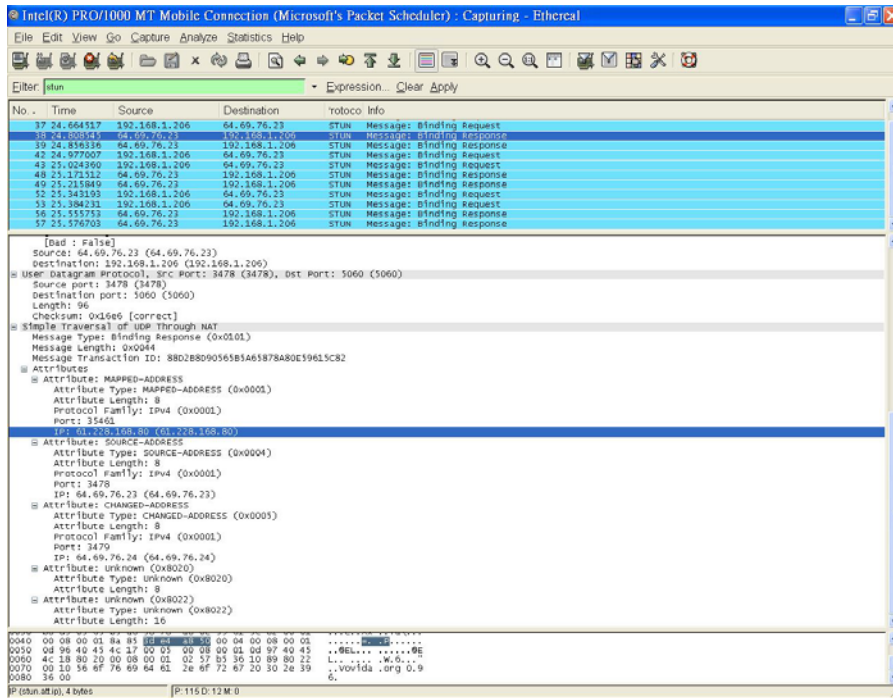
Public IP address:

Port: (80~65535)

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective. When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: Please check [Ethereal] Packet. The information that is sent to STUN Server will be seen.



4.8 Other Settings

4.8.1 Functions

Other Settings provide the application that is related to SIP, including Hold by RFC, QoS, SIP Expire Time, Use DNS SRV, etc.

4.8.2 Instructions

Other Settings

You could set other settings in this page.

Hold by RFC:	<input type="radio"/> On <input checked="" type="radio"/> Off
Voice QoS (Diff-Serv):	<input type="text" value="40"/> (0~63)
SIP QoS (Diff-Serv):	<input type="text" value="40"/> (0~63)
SIP Expire Time:	<input type="text" value="60"/> (15~86400 sec, 0=define by Server)
Use DNS SRV:	<input type="radio"/> On <input checked="" type="radio"/> Off
Send Keep Alives Packet:	<input type="radio"/> On <input checked="" type="radio"/> Off
Keep Alives Period:	<input type="text" value="60"/> (15~250 sec)
Jitter Buffer:	<input type="text" value="1"/> (0~32 packets)
SIP Server type:	General <input type="button" value="v"/>
SIP VID (VLAN):	<input type="text" value="0"/> (2~4094, 0:disabled)
RTP VID (VLAN):	<input type="text" value="0"/> (2~4094, 0:disabled)

Hold by RFC	Default: Off. When setting to ON, Hold by RFC function will be active. Provides ON and OFF modes.
Voice QoS (Diff-Serv)	Default: 40; Only numerals are accepted. Data range: (0~63). Maximum length is 2 bytes.
SIP QoS (Diff-Serv)	Default: 40; Only numerals are accepted. Data range: (0~63). Maximum length is 2 bytes.
SIP Expire Time	Default: 60; Only numerals are accepted. Data range: (30~86400 sec). Maximum length is 5 bytes.
Use DNS SRV	When setting to ON, DNS SRV will be used to search host information. Provides ON and OFF modes.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

4.8.3 Operating Instructions

Example 1: Start Hold by RFC

Step 1: On the main page, select [SIP→Other] and enter [Other] page. After revising the information (e.g., Hold by RFC: on), click [Submit].

Other Settings

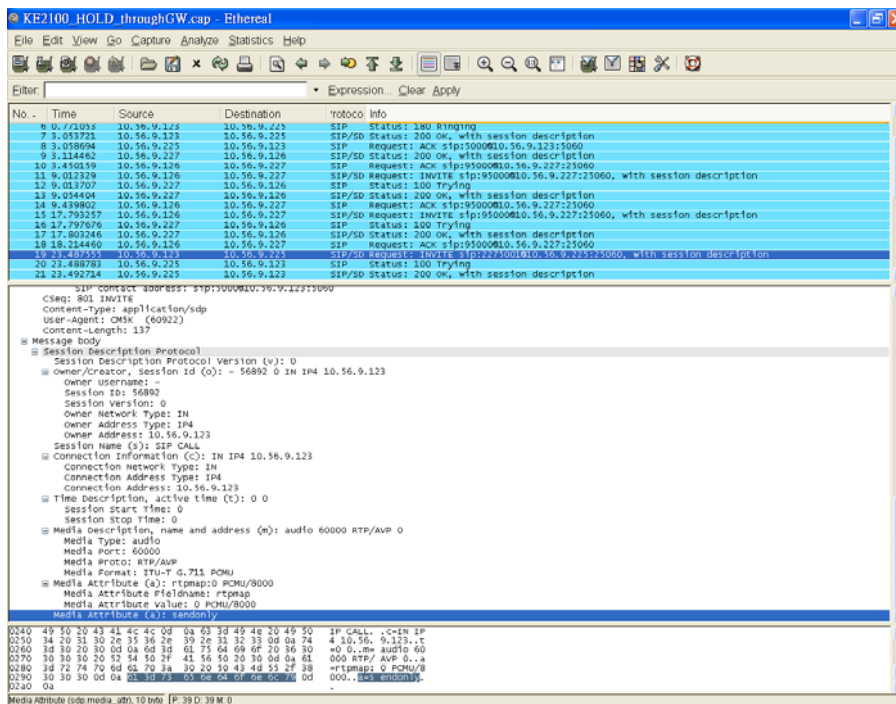
You could set other settings in this page.

Hold by RFC:	<input checked="" type="radio"/> On <input type="radio"/> Off
Voice QoS (Diff-Serv):	<input type="text" value="40"/> (0~63)
SIP QoS (Diff-Serv):	<input type="text" value="40"/> (0~63)
SIP Expire Time:	<input type="text" value="60"/> (15~86400 sec, 0=define by Server)
Use DNS SRV:	<input type="radio"/> On <input checked="" type="radio"/> Off
Send Keep Alives Packet:	<input type="radio"/> On <input checked="" type="radio"/> Off
Keep Alives Period:	<input type="text" value="60"/> (15~250 sec)
Jitter Buffer:	<input type="text" value="1"/> (0~32 packets)
SIP Server type:	General <input type="button" value="v"/>
SIP VID (VLAN):	<input type="text" value="0"/> (2~4094, 0:disabled)
RTP VID (VLAN):	<input type="text" value="0"/> (2~4094, 0:disabled)

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

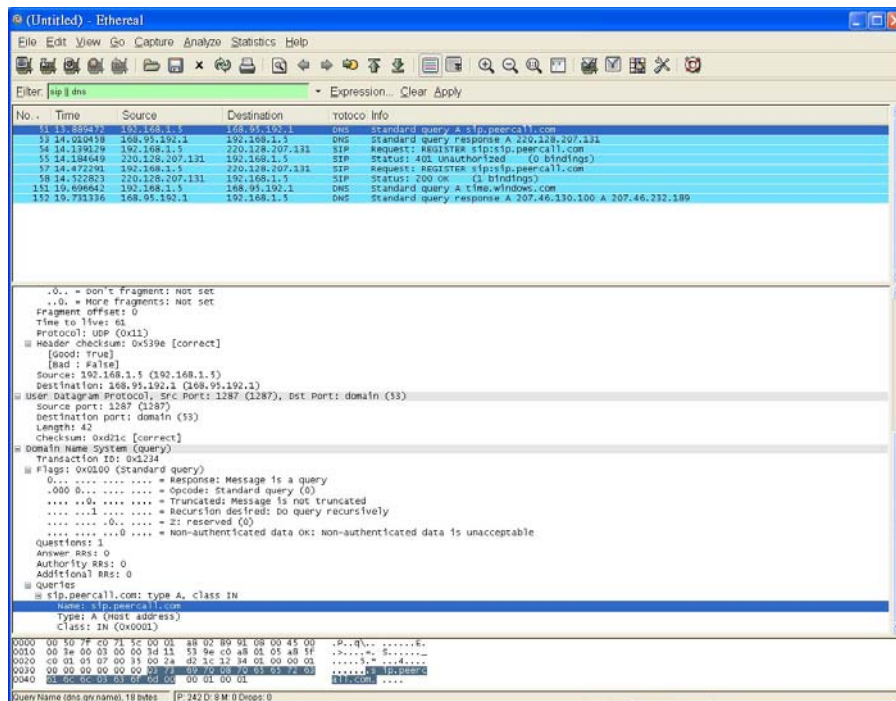
Step 3: On the main page, press the “save” button on the upper right corner to make the change effective. When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: After rebooting and making call to equipment, press [Flash] and hold this call. Hold function change to “sendonly” even. Please refer to the following picture, column [[Media Attribute (a): sendonly].



Example 2: Without Using DNS SRV

Step 1: Please check [Ethereal] Packet and [Standard query response A 220.128.207.131] Packet information.



Example 3: Using User DNS SRV

Step 1: On the main page, select [SIP→Other] and enter [Other] page. After revising the information (e.g., Used DNS SRV: on), click [Submit].

Other Settings

You could set other settings in this page.

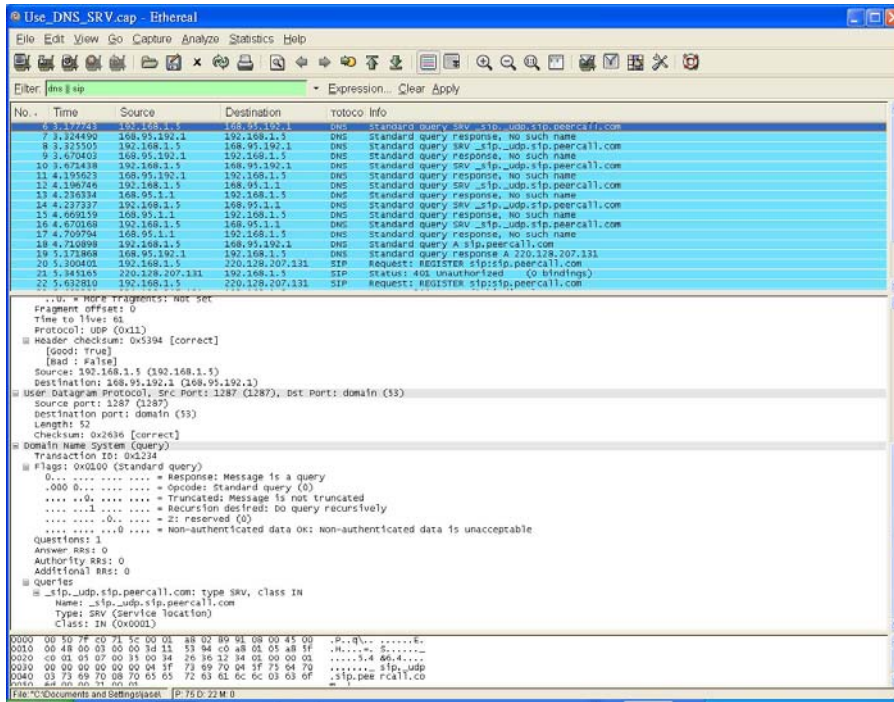
Hold by RFC:	<input type="radio"/> On <input checked="" type="radio"/> Off
Voice QoS (Diff-Serv):	<input style="width: 40px;" type="text" value="40"/> (0~63)
SIP QoS (Diff-Serv):	<input style="width: 40px;" type="text" value="40"/> (0~63)
SIP Expire Time:	<input style="width: 40px;" type="text" value="60"/> (15~86400 sec, 0=define by Server)
Use DNS SRV:	<input checked="" type="radio"/> On <input type="radio"/> Off
Send Keep Alives Packet:	<input type="radio"/> On <input checked="" type="radio"/> Off
Keep Alives Period:	<input style="width: 40px;" type="text" value="60"/> (15~250 sec)
Jitter Buffer:	<input style="width: 40px;" type="text" value="1"/> (0~32 packets)
SIP Server type:	General <input style="float: right;" type="button" value="v"/>
SIP VID (VLAN):	<input style="width: 40px;" type="text" value="0"/> (2~4094, 0:disabled)
RTP VID (VLAN):	<input style="width: 40px;" type="text" value="0"/> (2~4094, 0:disabled)

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective.

When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: Please check [Ethereal] and [Standard query] column, [Standard query SRV_sip_upd.sip.peercall.com] information will be found.



The screenshot shows the Wireshark interface with a packet capture of a DNS SRV query. The packet list pane shows a standard query for SRV_sip_upd.sip.peercall.com. The packet details pane shows the query structure with flags and a question section.

No.	Time	Source	Destination	Protocol	Info
7	3.324490	168.95.192.1	192.168.1.3	DNS	Standard query SRV_sip_upd.sip.peercall.com
8	3.325105	192.168.1.3	168.95.192.1	DNS	Standard query response, no such name
9	3.675403	168.95.192.1	192.168.1.3	DNS	Standard query response, no such name
10	3.675438	192.168.1.3	168.95.192.1	DNS	Standard query response, no such name
11	4.195623	168.95.192.1	192.168.1.3	DNS	Standard query response, no such name
12	4.196746	192.168.1.3	168.95.1.1	DNS	Standard query SRV_sip_upd.sip.peercall.com
13	4.236334	168.95.1.1	192.168.1.3	DNS	Standard query response, no such name
14	4.237337	192.168.1.3	168.95.1.1	DNS	Standard query SRV_sip_upd.sip.peercall.com
15	4.659159	168.95.1.1	192.168.1.3	DNS	Standard query response, no such name
16	4.670168	192.168.1.3	168.95.1.1	DNS	Standard query SRV_sip_upd.sip.peercall.com
17	4.709794	168.95.1.1	192.168.1.3	DNS	Standard query response, no such name
18	4.710898	192.168.1.3	168.95.192.1	DNS	Standard query A sip.peercall.com
19	5.171868	168.95.192.1	192.168.1.3	DNS	Standard query response A 220.128.207.131
20	5.300401	192.168.1.3	220.128.207.131	SIP	Request: REGISTER sip:sip.peercall.com
21	5.345165	220.128.207.131	192.168.1.3	SIP	Status: 401 Unauthorized (0 binding)
22	5.622810	192.168.1.3	220.128.207.131	SIP	Request: REGISTER sip:sip.peercall.com

... * More fragments: not set
Fragment offset: 0
Time to live: 64
Protocol: UDP (0x11)
Header checksum: 0x5394 [correct]
[Good: True]
[Bad: False]
Source: 192.168.1.3 (192.168.1.3)
Destination: 168.95.192.1 (168.95.192.1)
User Datagram Protocol, Src Port: 1287 (1287), Dst Port: domain (53)
Source port: 1287 (1287)
Destination port: domain (53)
Length: 52
Checksum: 0x2636 [correct]
Domain Name System (Query)
Transaction ID: 0x1234
Flags: 0x0000 (Standard query)
0. = Response: Message is a query
.000 0. = Opcode: Standard query (0)
.... 0. = Truncated: Message is not truncated
.... 1. = Recursion desired: Do query recursively
.... 0. = Z: reserved (0)
.... 0. = Non-authenticated data ok: non-authenticated data is unacceptable
Questions: 1
Answer RRs: 0
Authority RRs: 0
Additional RRs: 0
Queries
Name: _sip_upd.sip.peercall.com: type SRV, class IN
Name: _sip_upd.sip.peercall.com
Type: SRV (Service location)
Class: IN (0x0001)

Chapter 5. Network Setting

It provides Network Status, WAN Setting, LAN Setting, DDNS Setting, VLAN Setting, DMZ Setting, Virtual Server and SNTP Setting.

5.1 Status

5.1.1 Functions

Network Status shows the current network status.

5.1.2 Instructions

Network Status (Bridge Mode)

Network Status

This page shows current status of network interfaces of the system.

System Up Time:	0 dia(s) 0 hora(s) 3 minuto(s)
Network Link Up Time:	0 dia(s) 0 hora(s) 3 minuto(s)

Interface 0	
Type:	Fixed IP Client
IP:	192.168.1.45
Mask:	255.255.255.0
Gateway:	192.168.1.254
DNS Server 1:	202.96.128.166
DNS Server 2:	202.96.134.133

Interface 0	Shows the current status of Interface 0(WAN Port)
Type	Shows the current type.
IP	Shows the current IP address.
Mask	Shows the current subnet mask IP address.
Gateway	Shows the current default gateway IP address.
DNS Server 1	Shows the current DNS server 1 IP address.
DNS Server 2	Shows the current DNS server 2 IP address.

Network Status (NAT Mode)

Network Status

This page shows current status of network interfaces of the system.

System Up Time:	0 dia(s) 0 hora(s) 2 minuto(s)
Network Link Up Time:	0 dia(s) 0 hora(s) 2 minuto(s)

Interface 0	
Type:	Fixed IP Client
IP:	192.168.1.45
Mask:	255.255.255.0
Gateway:	192.168.1.254
DNS Server 1:	202.96.128.166
DNS Server 2:	202.96.134.133

Interface 1	
Type:	Fixed IP Client
IP:	192.168.0.1
Mask:	255.255.255.0
Gateway:	192.168.0.1
DNS Server 1:	202.96.128.166
DNS Server 2:	202.96.134.133

Interface 0	Shows the current status of Interface 0(WAN Port)
Type	Shows the current type.
IP	Shows the current IP address.
Mask	Shows the current subnet mask IP address.
Gateway	Shows the current default gateway IP address.
DNS Server 1	Shows the current DNS Server 1 IP address.
DNS Server 2	Shows the current DNS Server 2 IP address.
Interface 1	Shows the current status of Interface 1(LAN Port)
Type	Shows the current type.
IP	Shows the current IP address.
Mask	Shows the current subnet mask IP address.
Gateway	Shows the current default gateway IP address.
DNS Server 1	Shows the current DNS server 1 IP address.
DNS Server 2	Shows the current DNS server 2 IP address.

5.1.3 Operating Instructions

Step 1: On the main page, select [Network→Status] and Network Status will be seen.

Network Status

This page shows current status of network interfaces of the system.

System Up Time:	0 dia(s) 11 hora(s) 16 minuto(s)
Network Link Up Time:	0 dia(s) 1 hora(s) 16 minuto(s)

Interface 0	
Type:	Fixed IP Client
IP:	192.168.1.54
Mask:	255.255.255.0
Gateway:	192.168.1.254
DNS Server 1:	168.95.1.1
DNS Server 2:	8.8.8.8

Interface 1	
Type:	Fixed IP Client
IP:	192.168.0.1
Mask:	255.255.255.0
Gateway:	192.168.0.1
DNS Server 1:	168.95.1.1
DNS Server 2:	8.8.8.8

5.2 WAN Setting

5.2.1 Function

WAN Setting provides WAN Setting.

5.2.2 Instructions

WAN Settings

You could configure the WAN settings in this page.

LAN Mode: Bridge NAT

WAN Setting

IP Type: Fixed IP DHCP Client PPPoE

IP:

Mask:

Gateway:

DNS Type: Fixed Auto

DNS Server1:

DNS Server2:

MAC:

Host Name:

PPPoE Setting

User Name:

Password:

Password:

Service Name:

AC Name:

LAN Mode	Default: NAT. NAT is different from WAN; LAN will dispatch IP to DHCP Server automatically. When Bridge is on, WAN and LAN can be at the same subnet.
WAN Setting	Provides the WAN setting
IP Type	Default: DHCP Client, provides Fixed IP, obtains IP Address automatically. PPPoE: ADSL Dialing number.
IP	Default: current IP Address; or any IP Address that is xxx.xxx.xxx.xxx. If would like to change IP Address, please set IP Type as "Fixed IP". Maximum length is 15 bytes.
Mask	Default: current Subnet Mask IP Address. Format: xxx.xxx.xxx.xxx. Or change Subnet Mask IP. Maximum length is 15 bytes.
Gateway	Default: current gateway IP address; or change Gateway IP. Maximum length is 15 bytes.
DNS Server 1	Default: 168.95.192.1. Can input IP or Domain Name, format: xxx.xxx.xxx.xxx. If you would like to gain DHCP or PPPoE Server automatically, please fill in this blank as "0.0.0.0". Maximum length is 15 bytes.
DNS Server 2	Default: 168.95.1.1. Can input IP or Domain Name, format: xxx.xxx.xxx.xxx. If you would like to gain DHCP or PPPoE Server automatically, please fill in this blank as "0.0.0.0". Maximum length is 15 bytes.
MAC	Show MAC ID Address. Maximum length is 12 bytes.
Host Name	Default: product name. Numerals or characters are both acceptable. Length: 15 bytes.
PPPoE Setting	Provides PPPoE Setting.
User Name	Provides user's name of PPPoE Server; can be numerals or characters. Length: 63 bytes.
Password	Provides password of PPPoE Server; can be numerals or characters. Length:

	63 bytes.
Service Name	Provides service's name of PPPoE server; can be numerals or characters. Maximum length is 63 bytes.
AC Name	Provides AC's name of PPPoE server; can be numerals or characters. Maximum length is 63 bytes.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

5.2.3 Operating Instruction

Step 1: On the main page, select [Network→WAN] and enter [WAN] page. After revising information (e.g., IP Type: DHCP client), click [Submit].

WAN Settings

You could configure the WAN settings in this page.

LAN Mode: Bridge NAT

WAN Setting

IP Type: Fixed IP DHCP Client PPPoE

IP:

Mask:

Gateway:

DNS Type: Fixed Auto

DNS Server1:

DNS Server2:

MAC:

Host Name:

PPPoE Setting

User Name:

Password:

Password:

Service Name:

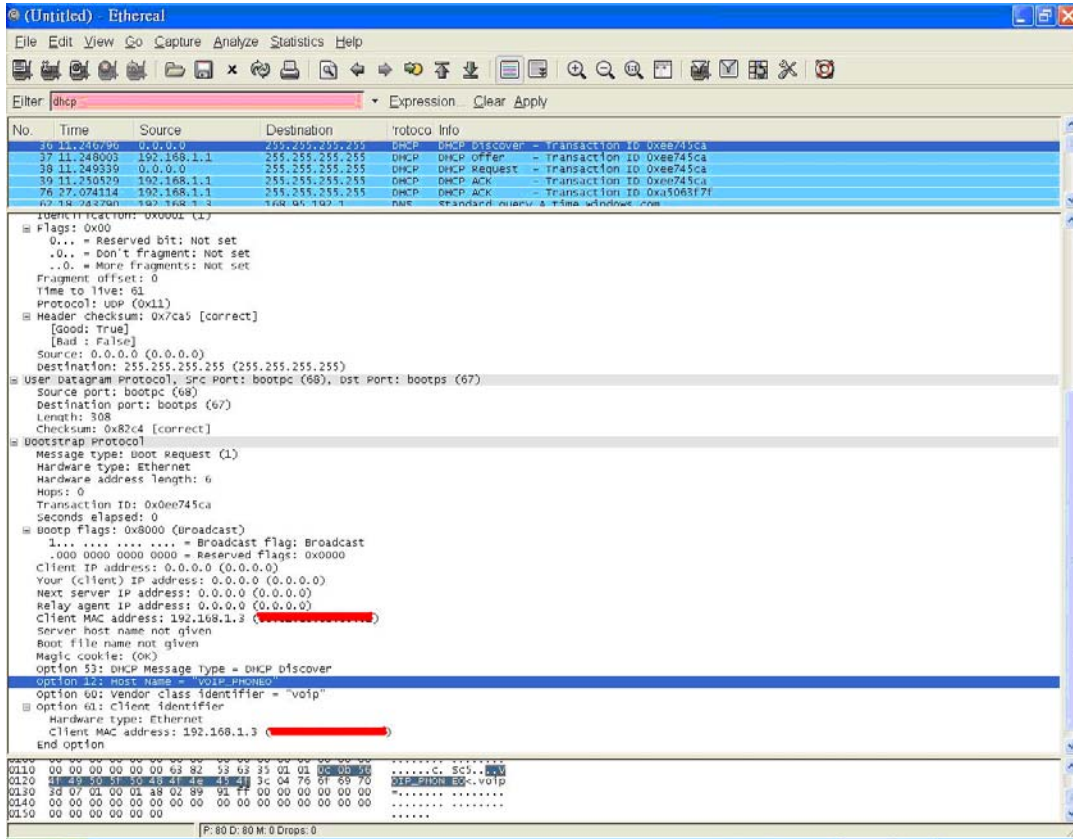
AC Name:

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective.

When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: To view [Host Name] by Ethereal, please refer to [Option 12Host Name= "VOIP Phone"] as follows.



5.3 LAN Setting

5.3.1 Function

LAN Setting provides LAN setting, including DHCP Server function.

5.3.2 Instructions

LAN Settings

You could configure the LAN settings in this page.

LAN Setting	
IP:	<input type="text" value="192.168.0.1"/>
Mask:	<input type="text" value="255.255.255.0"/>
MAC:	<input type="text" value="00304f334455"/>
DHCP Server	
DHCP Server:	<input type="radio"/> On <input checked="" type="radio"/> Off
Start IP:	<input type="text" value="150"/>
End IP:	<input type="text" value="200"/>
Lease Time:	<input type="text" value="1"/> : <input type="text" value="0"/> (dd:hh)

LAN Setting	Provides LAN Setting.
IP	Default: 192.168.0.1 Format: xxx.xxx.xxx.xxx. Maximum length is 15 bytes.
Mask	Default: 255.255.255.0 provides Subnet Mask IP Address. Format: xxx.xxx.xxx.xxx. Maximum length is 15 bytes.
MAC	Shows MAD ID information. Maximum length is 12 bytes.
DHCP Server	Provides DHCP Server information.
DHCP Server	Default: OFF. When setting to ON, DHCP Server will run automatically.
Start IP	Default: 150, to set Start IP information. From (1~254). Maximum length is 3 bytes.
End IP	Default: 200, to set End IP information. From (1~254). Maximum length is 3 bytes.
Lease Time	Default: 1:0 (dd: hh), to set lease time for dispatching IP information. From (00:00~99:23). Maximum length is 2 bytes.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

5.3.3 Operating Instructions

Step 1: On the main page, select [Network→ LAN] and enter [LAN] page. After revising information (e.g., IP: 192.168.200.1, Start IP: 50, End IP: 100, Lease Time: 00:05), click [Submit].

LAN Settings

You could configure the LAN settings in this page.

LAN Setting	
IP:	<input type="text" value="192.168.200.1"/>
Mask:	<input type="text" value="255.255.255.0"/>
MAC:	<input type="text" value="00304f334455"/>

DHCP Server	
DHCP Server:	<input checked="" type="radio"/> On <input type="radio"/> Off
Start IP:	<input type="text" value="50"/>
End IP:	<input type="text" value="100"/>
Lease Time:	<input type="text" value="0"/> : <input type="text" value="05"/> (dd:hh)

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective. When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

5.4 DDNS Setting

5.4.1 Functions

DDNS Setting provides the floating IP information. There are four DDNS Servers.


5.4.2 Instructions

DDNS Settings

You could set the configuration of DDNS in this page.

DDNS: On Off

Host Name:	<input type="text" value="8030nt.planetddns.com"/>
User Name:	<input type="text" value="test08"/>
Password:	<input type="password" value="•••••"/>
E-mail Address:	<input type="text"/>
DDNS Server:	<input type="text"/>
DDNS Server List:	<input type="text" value="planetddns.com"/>
Type:	<input type="text" value="customer"/>
Wild Card:	<input type="text" value="on"/>
BACKMX:	<input type="radio"/> On <input checked="" type="radio"/> Off
Off Line:	<input type="radio"/> On <input checked="" type="radio"/> Off

DDNS	Default: OFF. When setting to ON, DDNS will come into run. Maximum length is 63 bytes.
Host Name	Maximum length is 63 bytes. Input Host name; can be IP Address or Domain Name. Format: xxx.xxx.xxx.xxx. Length: 63 bytes
User Name	Input user's name for registering DDNS Server.
Password	Input the password. Maximum length is 63 bytes.
E-mail Address	Input e-mail address. Maximum length is 63 bytes.
DDNS Server	Maximum length is 60 bytes. Input DDNS Server; can be IP Address or Domain Name. Format: xxx.xxx.xxx.xxx. Maximum length is 63 bytes.
DDNS Server List	Default: OFF. Display DDNS server's name list information. Provides user input, members.dyndns.rog, www.dtdns.com , ddns.com.cn and planetddns.com.
Type	Default: planetddns. Provides dyndns, statdns, customer, 3 items. If you choose customer, you can change the type information.
Wild Card	Default: ON. Provides On, Off, Nochg 3 items. Not all DNS providers can provide Wild Card. So if there is an issue about this, please contact your provider.
BACKMX	Default: OFF. When setting to ON, BACKMAX will come into run. Not all DNS providers can provide this service, so of there is an issue about this, please contact your provider.
	 MX records serve a specific purpose: They let you specify the host (server) to which mail for a specific domain should be sent.
OFF Line	Default: OFF. When setting to ON, OFF Line will come into run.

	<p>Redirection of HTTP requests to hosts which are marked offline is available to users who have purchased some type of upgrade credit only. As a credited user, you will see an “Offline URL” range and a “Set Offline” checkbox. Simply enter the URL you wish to redirect to in the text range (or leave it blank to get a generic page), and check the “Set Offline” box. Users accessing http://yourhost.dyndns.org/ will be redirected to this page until you update normally, or manually uncheck the box in the web form.</p>
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

5.4.3 Operating Instructions

Example 1: Using WWW.DYNDNS.COM

Step 1: On the main page, select [Network→DDNS] and enter [DDNS] page. After revising information (e.g., DDNS: On, Host Name: 8030nt.planetddns.com, User Name: test08, Password: xxxxxx, E-mail Address: support.planet.com.tw, DNS Server: www.planetdns.com, DDNS Server List: User Input, Type: customer, Wild Card: on, BACKMX: off, Off Line: off), click [Submit].

DDNS Settings

You could set the configuration of DDNS in this page.

DDNS: On Off

Host Name:	<input type="text" value="8030nt.planetddns.com"/>
User Name:	<input type="text" value="test08"/>
Password:	<input type="password" value="•••••"/>
E-mail Address:	<input type="text"/>
DDNS Server:	<input type="text" value="w.planetddns.com"/>
DDNS Server List:	<input type="text" value="planetddns.com"/>
Type:	<input type="text" value="customer"/>
Wild Card:	<input type="text" value="on"/>
BACKMX:	<input type="radio"/> On <input checked="" type="radio"/> Off
Off Line:	<input type="radio"/> On <input checked="" type="radio"/> Off

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective. When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

5.5 VLAN Setting

5.5.1 Functions

VLAN Setting provides Client information of WAN and VLAN information of LAN.



Need to work with switch decode VLAN.

5.5.2 Instructions

VLAN Settings

You could set the VLAN settings in this page.

VLAN Packets:	<input type="radio"/> On <input checked="" type="radio"/> Off
VID (802.1Q/TAG):	<input type="text" value="136"/> (2 ~ 4094)
User Priority (802.1P):	<input type="text" value="0"/> (0 ~ 7)
CFI:	<input type="text" value="0"/> (0 ~ 1)

VLAN Packets	Default: OFF. When setting to ON, receiving VALN Packets function will be started.
VID	Default: 136. Provides Virtual LAN ID (VLAN or VID) for VLAN Server. Data range: 2~4094. Maximum length is 4 bytes.
User Priority	Default: 0. Set the user's priority. Data range: (0~7). Maximum length is 1 bytes.
CFI	Default: 0. To set Canonical Format Indicator (CFI) for one byte. Data Range (0~1) The CFI bit is used to indicate that all MAC addresses present in the MAC data field are in canonical format. This field is interpreted differently depending on whether it is an Ethernet-encoded tag header or a SNAP-encoded tag header. In SNAP-encoded TPID, the field indicates the presence or absence of the canonical format of addresses. In Ethernet-encoded TPID, it indicates the presence of the Source-Routing Information (RIF) field after the length field. The RIF field indicates routing on Ethernet frames.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

5.5.3 Operating Instructions

Step 1: On the main page, select [Network→VLAN] and enter [VLAN] page. After revising information (e.g. VLAN Packets: on, VID (802.1Q/TAG): 100, User Priority (802.1P):0, CFGI: 0), click [Submit].

VLAN Settings

You could set the VLAN settings in this page.

VLAN Packets:	<input checked="" type="radio"/> On <input type="radio"/> Off
VID (802.1Q/TAG):	<input type="text" value="100"/> (2 ~ 4094)
User Priority (802.1P):	<input type="text" value="0"/> (0 ~ 7)
CFI:	<input type="text" value="0"/> (0 ~ 1)

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective.

When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

5.6 DMZ Setting

5.6.1 Function

DMZ Setting provides DMZ data.

5.6.2 Instructions

DMZ Setting

You could configure your demilitarized zone setting in this page.

DMZ:	<input type="radio"/> On <input checked="" type="radio"/> Off
DMZ Host IP:	<input type="text" value="0.0.0.0"/>

DMZ	Default: OFF. When setting to ON, all ethereal logs will be sent to the IP. (Except SIP related logs.)
DMZ Host IP	Input IP Address information; can be IP or Domain Name. Format: xxx.xxx.xxx.xxx. Length: 15 bytes.
Submit [Button]	Submit the change.

5.6.3 Instruction

Step 1: On the main page, select [Network→DMZ] and enter [DMZ] page. After revising tone information, click [Submit].

DMZ Setting

You could configure your demilitarized zone setting in this page.

DMZ: On Off

DMZ Host IP:

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective.

When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

5.7 Virtual Server

5.7.1 Function

Virtual Server Setting provides 24 sets of Virtual Server information.

5.7.2 Instructions

Virtual Server Settings

You could set your virtual servers in this page. The usual port numbers are WEB [TCP 80], FTP(Control) [TCP 21], FTP(Data) [TCP 20], E-mail(POP3) [TCP 110], E-mail(SMTP) [TCP 25], DNS [UDP 53] and Telnet [TCP 23].

Virtual Server Page:

Num	Enable	Protocol	In Port	Ex Port	Server IP	Select
0	<input type="checkbox"/>					<input type="checkbox"/>
1	<input type="checkbox"/>					<input type="checkbox"/>
2	<input type="checkbox"/>					<input type="checkbox"/>
3	<input type="checkbox"/>					<input type="checkbox"/>
4	<input type="checkbox"/>					<input type="checkbox"/>
5	<input type="checkbox"/>					<input type="checkbox"/>
6	<input type="checkbox"/>					<input type="checkbox"/>
7	<input type="checkbox"/>					<input type="checkbox"/>

Add Virtual Server

Server IP:
 Protocol:
 Internal Port Start: Internal Port End:
 External Port Start: External Port End:

Virtual Server Page	Default: Page 1. Page 1~Page 3 are available.
Num	Shows the Number Setting Range: (0-23).24 entries in total.
Enable	Shows the status. Default: Disable. When setting to Enable, this function will be started.
Protocol	Protocol: use TCP or UDP
Internal Port Start	Shows the start address of Internal Port.
Internal Port End	Shows the end address of Internal Port.
External Port Start	Shows the start address of External Port.
External Port End	Shows the end address of External Port.
Server IP	Shows the Server IP Address.
Select	Default: Disable.
Enable Selected [Button]	Start Enable Selected information.
Delete Selected [Button]	Execute delete selected information.
Delete All [Button]	Delete all information.
Reset [Button]	Clear selected information.
Add Virtual Server	Add new Virtual Server Information.
Server IP	Input IP information; can be IP Address or Domain Name. Format: xxx.xxx.xxx.xxx. Maximum length is 15 bytes.
Protocol	Default: TCP, use tcp or udp
Internal Port	Display internal port address. Data range: (1~65533). Maximum length is 5 bytes.

External Port	Display internal port address. Data range: (1~65533). Maximum length is 5 bytes.
Add Server [Button]	Add new Add Server information.
Reset [Button]	Clear selected information.

5.7.3 Operating Instructions

Step 1: On the main page, select [Network→Virtual Server] and enter [Virtual Server] page. After revising information (Server IP: 192.168.0.123, Protocol: TCP, Internal Port: 8080, External Port: 8080), click [Submit].

Virtual Server Settings

You could set your virtual servers in this page. The usual port numbers are WEB [TCP 80], FTP(Control) [TCP 21], FTP(Data) [TCP 20], E-mail(POP3) [TCP 110], E-mail(SMTP) [TCP 25], DNS [UDP 53] and Telnet [TCP 23].

Virtual Server Page: page 1

Num	Enable	Protocol	In Port	Ex Port	Server IP	Select
0	<input type="checkbox"/>					<input type="checkbox"/>
1	<input type="checkbox"/>					<input type="checkbox"/>
2	<input type="checkbox"/>					<input type="checkbox"/>
3	<input type="checkbox"/>					<input type="checkbox"/>
4	<input type="checkbox"/>					<input type="checkbox"/>
5	<input type="checkbox"/>					<input type="checkbox"/>
6	<input type="checkbox"/>					<input type="checkbox"/>
7	<input type="checkbox"/>					<input type="checkbox"/>

Enable Selected
Delete Selected
Delete All
Reset

Add Virtual Server

Server IP: 192.168.0.123
 Protocol: TCP ▼
 Internal Port Start: 8080 Internal Port End: 8080
 External Port Start: 8080 External Port End: 8080

Add Server
Reset

Step 2: You have to save and reboot the system or affect the virtual server.

Step 3: After adding all information, please save change.

Virtual Server Settings

You could set your virtual servers in this page. The usual port numbers are WEB [TCP 80], FTP(Control) [TCP 21], FTP(Data) [TCP 20], E-mail(POP3) [TCP 110], E-mail(SMTP) [TCP 25], DNS [UDP 53] and Telnet [TCP 23].

Virtual Server Page: page 1 ▼

Num	Enable	Protocol	In Port	Ex Port	Server IP	Select
0	<input checked="" type="checkbox"/>	TCP	8080	8080	192.168.0.123	<input type="checkbox"/>
1	<input type="checkbox"/>					<input type="checkbox"/>
2	<input type="checkbox"/>					<input type="checkbox"/>
3	<input type="checkbox"/>					<input type="checkbox"/>
4	<input type="checkbox"/>					<input type="checkbox"/>
5	<input type="checkbox"/>					<input type="checkbox"/>
6	<input type="checkbox"/>					<input type="checkbox"/>
7	<input type="checkbox"/>					<input type="checkbox"/>

Enable Selected
Delete Selected
Delete All
Reset

Step 4: On the main page, press the save button on upper right corner to make the change effective. The [Note Information] page will be seen, meaning it has been saved successfully. And the system will reboot. Please wait for a while.

5.8 SNTP Setting

5.8.1 Function

SNTP Setting provides the website of time setting for the server.

5.8.2 Instructions

SNTP Settings

You could set the SNTP servers and Daylight Saving Time (DST) in this page.

SNTP: On Off

Primary Server:

Secondary Server:

Time Zone: GMT (hh:mm)

Sync. Time: (dd:hh:mm)

Auto Reboot: On Off

Auto Reboot Time: (hh:mm)

Daylight Saving: On Off

DST Offset:

DST Start Date:

Day of Month

Week of Month

Day of Month

Week of Month

Start Time:

DST End Date:

Day of Month

Week of Month

End Time:

SNTP	When setting to ON, the SNTP is on; when setting to OFF, the SNTP is off.
Primary Server	Default: north-america.pool.ntp.org; can input IP or Domain Name, format is xxx.xxx.xxx.xxx; and the maximum length is 63 digits.
Secondary Server	Default: asia.pool.ntp.org; can input IP or Domain Name, format is xxx.xxx.xxx.xxx; and the maximum length is 63 digits.
Time Zone	Default: GMT + 8:00 (hh:mm), and the format is (+/-, hh:mm). Maximum length is 2 bytes.
Sync. Time	Default: 00:06:00 (dd:hh:mm), it will check the time with the Server every other day, format: (dd:hh:mm). Maximum length is 2 bytes.
Auto Reboot	Default: ON, 02:00 (hh:mm). VIP-8030NT will automatic restart every day at 2:00, user can turn off this function if not in use.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

5.8.3 Operating Instructions

Step 1: On the main page, select [Network→SNTP] and enter [SNTP] page. After revising all information (e.g., SNTP: on, Primary Server: 208.184.49.9, Secondary Server: time.stdtime.gov.tw, Time Zone: GMT+08:00, Sync. Time: 00:12:00), click [Submit].

SNTP Settings

You could set the SNTP servers and Daylight Saving Time (DST) in this page.

SNTP:	<input checked="" type="radio"/> On <input type="radio"/> Off
Primary Server:	<input type="text" value="208.184.49.9"/>
Secondary Server:	<input type="text" value="time.stdtime.gov.tw"/>
Time Zone:	GMT <input type="button" value="+"/> <input type="button" value="08"/> <input type="button" value="00"/> (hh:mm)
Sync. Time:	<input type="text" value="0"/> : <input type="text" value="12"/> : <input type="text" value="0"/> (dd:hh:mm)
Auto Reboot:	<input type="radio"/> On <input checked="" type="radio"/> Off
Auto Reboot Time:	<input type="text" value="02"/> : <input type="text" value="00"/> (hh:mm)
Daylight Saving:	<input type="radio"/> On <input checked="" type="radio"/> Off
DST Offset:	<input type="text" value="-"/> : <input type="text" value="2"/>
DST Offset:	<input type="text" value="-"/> : <input type="text" value="2"/>
DST Start Date:	<input type="text" value="Jan"/> <input checked="" type="radio"/> Day of Month <input type="text" value="01"/> <input type="radio"/> Week of Month <input type="text" value="Week 1"/> <input type="text" value="Sun"/> Start Time: <input type="text" value="00"/>
DST End Date:	<input type="text" value="Jan"/> <input checked="" type="radio"/> Day of Month <input type="text" value="01"/> <input type="radio"/> Week of Month <input type="text" value="Week 1"/> <input type="text" value="Sun"/> End Time: <input type="text" value="00"/>
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective. When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Chapter 6. System

It provides Authentication, Auto Config, FXO Port, MAC Clone, Tone, Advanced, Log, Auto Answer and Dial Plan.

6.1 System Auth.

6.1.1 Function

System Authority provides 3 entries login username/ password information.

6.1.2 Instructions

System Authority

You could change the login username/password in this page.

New username:	<input style="width: 60%;" type="text"/>
New password:	<input style="width: 60%;" type="password"/>
Confirmed password:	<input style="width: 60%;" type="password"/>
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

New username	Input new username. Can be numerals or characters; maximum length is 63 bytes.
New password	Input new password. Can be numerals or characters; maximum length is 63 bytes.
Confirmed password	Input confirmed password. Can be numerals or characters; maximum length is 63 bytes.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

- ◆ **Special user: User cannot login to the system with another login account. Special user account cannot be changed.**
- ◆ **Default Account: Default Password: 123 for special user**



- ◆ **Administrator: Can set only one account information.**
- ◆ **Default Account: Default Password: 123 for administrator**
- ◆ **Normal User: There are 5 accounts available. When using this account, the following page cannot be open: [SIP Settings: including Service Domain, Port, Code, Codec ID, DTMF, RPort and other], Auto Configuration, Tone, Auto Update, Default Setting, etc.**
- ◆ **Default Account: Default Password: 123 for normal user.**

6.1.3 Operating Instructions

Step 1: On the main page, select [System] and enter [Authentication] page. After revising the information (e.g., New User Name: planet, New Password: 123456, Confirmed Password: 123456), click [Submit]

System Authority

You could change the login username/password in this page.

New username:	<input type="text" value="planet"/>
New password:	<input type="password" value="•••••"/>
Confirmed password:	<input type="password" value="•••••"/>
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective.

When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: Please restart IE, and input new User Name and Password.

6.2 Auto Config

6.2.1 Function

Auto Configuration Setting allows connecting with the host computer and downloading related information and renewing the information in TFTP, FTP or HTTP modes.

6.2.2 Instructions

Auto Configuration Setting

You could enable/disable the auto configuration setting in this page.

Auto configuration: Off TFTP FTP HTTP

2 Steps configuration:

Server auto discover:

TFTP Server:

TFTP File Path: Exp. download

HTTP Server: Exp. 60.35.187.30

HTTP File Path: Exp. download

FTP Server: Exp. 60.35.17.1

FTP Username:

FTP Password:

FTP File Path: Exp. file/load

Scheduling:

Next config time:

Auto Configuration	Default: Off; When TFTP is set to ON, the version will be renewed automatically by using TFTP, FTP pr HTTP modes.
TFTP Server	Input TFTP Address. Can be IP Address or Domain Name. Format: xxx.xxx.xxx.xxx; Maximum length: 63 bytes.
HTTP Server	Input HTTP Address. Can be IP Address or Domain Name. Format: xxx.xxx.xxx.xxx; Maximum length: 63 bytes.
HTTP File Path	Input HTTP Path e.g., 123/; can be numerals or characters. Maximum length: 63 bytes.
FTP Server	Input FTP Address. Can be IP Address or Domain Name. Format: xxx.xxx.xxx.xxx; Maximum length: 63 bytes.
FTP Username	Input FTP Username. Can be numerals or characters. Maximum length: 63 bytes.
FTP Password	Input FTP Password. Can be numerals or characters. Maximum length: 63 bytes.
FTP File Path	Input File Path. e.g., 123/; can be numerals or characters. Maximum length: 63 bytes.

Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

6.2.3 Operating Instructions

Example 1: Adopt HTTP to renew. (Please build Auto Configuration file first.)

Step 1: On the main page, select [System→Auto Config] and enter [Auto Configuration] page. After revising the information (e.g., Auto Configuration: HTTP, HTTP Server: 192.168.1.47, HTTP Path: /file/), click [Submit] and save change.

Auto Configuration Setting

You could enable/disable the auto configuration setting in this page.

Auto configuration:	<input type="radio"/> Off <input type="radio"/> TFTP <input type="radio"/> FTP <input checked="" type="radio"/> HTTP	
2 Steps configuration:	No ▾	
Server auto discover:	Disabled ▾	
TFTP Server:	<input type="text"/>	
TFTP File Path:	<input type="text"/>	Exp. download
HTTP Server:	<input type="text" value="192.168.1.47"/>	Exp. 60.35.187.30
HTTP File Path:	<input type="text" value="/file/"/>	Exp. download
FTP Server:	<input type="text"/>	Exp. 60.35.17.1
FTP Username:	<input type="text"/>	
FTP Password:	<input type="text"/>	
FTP File Path:	<input type="text"/>	Exp. file/load
Scheduling:	No ▾	
Next config time:	<input type="text"/>	

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective. When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: After rebooting, it will connect to the file in HTTP Server, and start searching the fit information. After renewing all information, the system will rebooting. Then please login and check it.

Example 2: Using FTP to renew. (Please build Auto Configuration file.)

Step 1: On the main page, select [Others→Auto Config] and enter [Auto Configuration Setting] page. After revising the information (e.g., Auto Configuration: FTP, FTP Server 192.168.1.47, FTP username and password are test / 123456, File Path: /file/), click [Submit] and save change.

Auto Configuration Setting

You could enable/disable the auto configuration setting in this page.

Auto configuration:	<input type="radio"/> Off <input type="radio"/> TFTP <input checked="" type="radio"/> FTP <input type="radio"/> HTTP	
2 Steps configuration:	No ▾	
Server auto discover:	Disabled ▾	
TFTP Server:	<input type="text"/>	
TFTP File Path:	<input type="text"/>	Exp. download
HTTP Server:	<input type="text"/>	Exp. 60.35.187.30
HTTP File Path:	<input type="text"/>	Exp. download
FTP Server:	<input type="text" value="192.168.1.47"/>	Exp. 60.35.17.1
FTP Username:	<input type="text" value="test"/>	
FTP Password:	<input type="password" value="*****"/>	
FTP File Path:	<input type="text" value="/file/"/>	Exp. file/load
Scheduling:	No ▾	
Next config time:	<input type="text"/>	
<input type="button" value="Submit"/> <input type="button" value="Reset"/>		

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective. When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: After rebooting, it will connect to the file in FTP Server, and start searching the fit information. After renewing all information, the system will reboot. Then please login and check it.

6.3 FXO Port Setting

6.3.1 Function

FXO Impedance Setting displays the FXO Impedance of the analog telephone in different countries.

6.3.2 Instructions

FXO Impedance Setting (Phone + FXO only)

FXO Setting

You could select the FXO impedance of the analog telephone by different country in this page.

FXO Port:

FXO Silence Timeout : (1~250 minutes)

FXO CID forward: On Off

FXO Port	Default: China. To select FXO Port impedance of the analog telephone in a different country.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

6.3.3 Operating Instructions

Step 1: On the main page, select [System→FXO Port] and enter [FXO Port] page.
After revising the information (e.g., FXO Port: Thailand), click [Submit].

FXO Setting

You could select the FXO impedance of the analog telephone by different country in this page.

FXO Port:

FXO Silence Timeout : (1~250 minutes)

FXO CID forward: On Off

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective.
When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

6.4 MAC Clone

6.4.1 Function

You could enable / disable the MAC Clone setting.

6.4.2 Instruction

MAC Clone Setting (VoIP Gateway only)

MAC Clone Setting

You could enable/disable the MAC clone setting in this page.

MAC Clone: On Off

MAC Clone	Default: OFF. When setting to ON, Mac Clone function will be active.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

6.4.3 Operating Instructions

Step 1: Please make sure that LAN Mode is NAT Mode, and your PC is connected to LAN Port. Use LAN to enter page: (http://192.168.0.1)

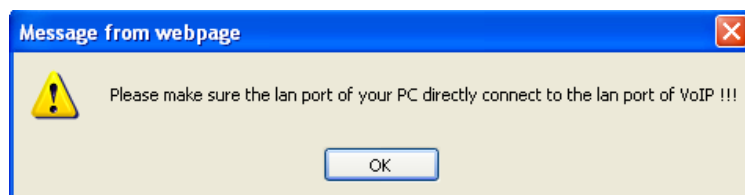
Step 2: On the main page, select [System→MAC Clone] and enter [MAC Clone] page. After revising the information (e.g., MAC Clone: on), click [Submit].

MAC Clone Setting

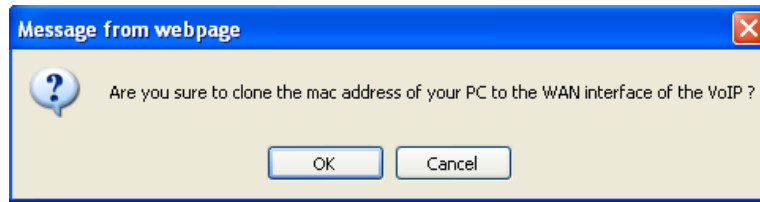
You could enable/disable the MAC clone setting in this page.

MAC Clone: On Off

Step 3: The following information will be found. Please click [OK].



Step 4: The following information will be found. Please click [OK].

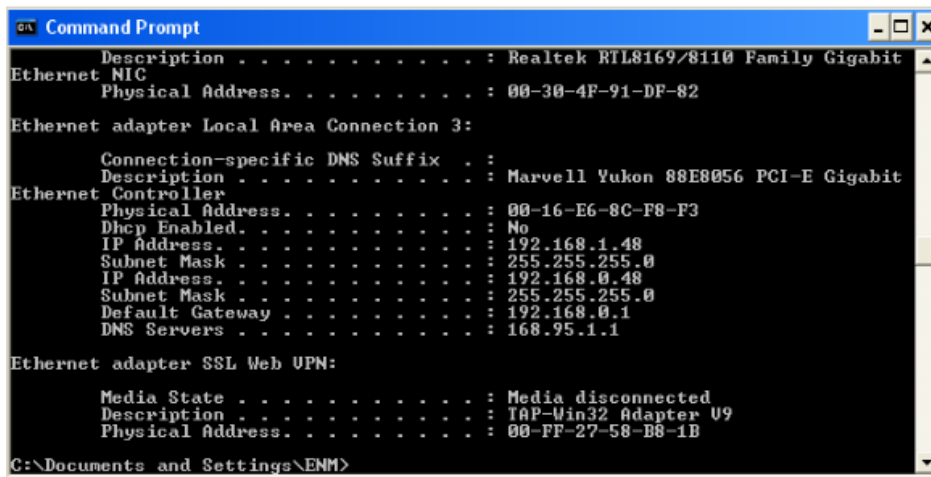


Step 5: After saving the change, "Note Information" will be seen, meaning the change takes effect.

Step 6: On the main page, press the save button on upper right corner to make the change effective. The [Note Information] page will be seen, meaning it has been saved successfully. And the system will reboot. Please wait for a while.

Step 7: Enter the main page and select [Network→WAN]. Please copy your PC's [MAC] Address to WAN Port.


Step 8: Your PC's MAC Address is: Physical Address: 00-16-E6-8C-F8-F3.



Step 9: The WAN MAC of VIP-8030NT will change to the same MAC as with PC's MAC.

LAN Mode: Bridge NAT

WAN Setting	
IP Type:	<input checked="" type="radio"/> Fixed IP <input type="radio"/> DHCP Client <input type="radio"/> PPPoE
IP:	<input type="text" value="192.168.1.48"/>
Mask:	<input type="text" value="255.255.255.0"/>
Gateway:	<input type="text" value="192.168.1.254"/>
DNS Type:	<input checked="" type="radio"/> Fixed <input type="radio"/> Auto
DNS Server1:	<input type="text" value="202.96.128.166"/>
DNS Server2:	<input type="text" value="202.96.134.133"/>
MAC:	<input type="text" value="0016e68cf8f3"/>

 **When setting MAC Clone function, make sure that it is in LAN→NAT mode. If Bridge mode is ON, it cannot work. If you would like to restore, please activate (Restore Default Setting).**

6.5 Tones Setting

6.5.1 Function

Tones Setting provides Dial Tone, Ring Back Tone, Busy Tone, Congestion Tone and Call Waiting Tone.

6.5.2 Instructions

Tones Settings

You could configure your tones settings in this page.

	Dial Tone	Ring Back Tone	Busy Tone	Congestion Tone	Ring Tone	Call Waiting Tone
Cadence On:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hi-Tone Freq.:	<input type="text" value="425"/>	<input type="text" value="425"/>	<input type="text" value="425"/>	<input type="text" value="620"/>	<input type="text" value="425"/>	<input type="text" value="440"/>
Lo-Tone Freq.:	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="480"/>	<input type="text" value="0"/>	<input type="text" value="350"/>
Hi-Tone Gain:	<input type="text" value="4522"/>	<input type="text" value="2261"/>	<input type="text" value="2261"/>	<input type="text" value="2261"/>	<input type="text" value="15360"/>	<input type="text" value="2261"/>
Lo-Tone Gain:	<input type="text" value="2261"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="1130"/>
On Time 1:	<input type="text" value="0"/>	<input type="text" value="100"/>	<input type="text" value="25"/>	<input type="text" value="30"/>	<input type="text" value="100"/>	<input type="text" value="30"/>
Off Time 1:	<input type="text" value="0"/>	<input type="text" value="400"/>	<input type="text" value="25"/>	<input type="text" value="20"/>	<input type="text" value="400"/>	<input type="text" value="20"/>
On Time 2:	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="30"/>
Off Time 2:	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="400"/>
On Time 3:	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Off Time 3:	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>

Dial Tone	Setting the Dial Tone information.
Cadence On	Default: Disable.
Hi-Tone Freq	Default: 425; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Lo-Tone Freq	Default: 0; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Hi-Tone Gain	Default: 4522; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Lo-Tone Gain	Default: 2261; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
On Time 1	Default: 0; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Off Time 1	Default: 0; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
On Time 2	Default: 0; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Off Time 2	Default: 0; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
On Time 3	Default: 0; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.

	length: 5 bytes.
Off Time 3	Default: 0; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Ring Back Tone	Setting the Ring Back Tone information.
Cadence On	Default: Enable.
Hi-Tone Freq	Default: 425; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Lo-Tone Freq	Default: 0; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Hi-Tone Gain	Default: 2261; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Lo-Tone Gain	Default: 0; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
On Time 1	Default: 100 Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Off Time 1	Default: 400; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
On Time 2	Default: 0; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Off Time 2	Default: 0; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
On Time 3	Default: 0; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Off Time 3	Default: 0; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Busy Tone	Setting the Busy Tone information.
Cadence On	Default: Enable.
Hi-Tone Freq	Default: 425; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Lo-Tone Freq	Default: 0; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Hi-Tone Gain	Default: 2261; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Lo-Tone Gain	Default: 0; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
On Time 1	Default: 25; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Off Time 1	Default: 25; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
On Time 2	Default: 0; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Off Time 2	Default: 0; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.

	length: 5 bytes.
On Time 3	Default: 0; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Off Time 3	Default: 0; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Congestion Tone	Setting the Congestion Tone information.
Cadence On	Default: Enable.
Hi-Tone Freq	Default: 620; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Lo-Tone Freq	Default: 480; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Hi-Tone Gain	Default: 2261; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Lo-Tone Gain	Default: 0; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
On Time 1	Default: 30; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Off Time 1	Default: 20; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
On Time 2	Default: 0; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Off Time 2	Default: 0; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
On Time 3	Default: 0; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Off Time 3	Default: 0; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Ring Tone	Setting the Ring Tone information.
Cadence On	Default: Enable.
Hi-Tone Freq	Default: 480; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Lo-Tone Freq	Default: 0; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Hi-Tone Gain	Default: 15360 ; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Lo-Tone Gain	Default: 0; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
On Time 1	Default: 100; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Off Time 1	Default: 400; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
On Time 2	Default: 0; Only numerals are acceptable. Data range: (0~99999). Maximum

	length: 5 bytes.
Off Time 2	Default: 0; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
On Time 3	Default: 0; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Off Time 3	Default: 0; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Call Waiting Tone	Setting the Call Waiting Tone information.
Cadence On	Default: Enable.
Hi-Tone Freq	Default: 440; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Lo-Tone Freq	Default: 350; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Hi-Tone Gain	Default: 2261; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Lo-Tone Gain	Default: 1130; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
On Time 1	Default: 30; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Off Time 1	Default: 20; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
On Time 2	Default: 30; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Off Time 2	Default: 400; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
On Time 3	Default: 0; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Off Time 3	Default: 0; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

6.5.3 Operating Instruction

Step 1: On the main page, select [System→Tone] and enter [Tone] page. After revising the information, click [Submit].

Tones Settings

You could configure your tones settings in this page.

	Dial Tone	Ring Back Tone	Busy Tone	Congestion Tone	Ring Tone	Call Waiting Tone
Cadence On:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hi-Tone Freq.:	<input type="text" value="425"/>	<input type="text" value="425"/>	<input type="text" value="425"/>	<input type="text" value="620"/>	<input type="text" value="425"/>	<input type="text" value="440"/>
Lo-Tone Freq.:	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="480"/>	<input type="text" value="0"/>	<input type="text" value="350"/>
Hi-Tone Gain:	<input type="text" value="4522"/>	<input type="text" value="2261"/>	<input type="text" value="2261"/>	<input type="text" value="2261"/>	<input type="text" value="15360"/>	<input type="text" value="2261"/>
Lo-Tone Gain:	<input type="text" value="2261"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="1130"/>
On Time 1:	<input type="text" value="0"/>	<input type="text" value="100"/>	<input type="text" value="25"/>	<input type="text" value="30"/>	<input type="text" value="100"/>	<input type="text" value="30"/>
Off Time 1:	<input type="text" value="0"/>	<input type="text" value="400"/>	<input type="text" value="25"/>	<input type="text" value="20"/>	<input type="text" value="400"/>	<input type="text" value="20"/>
On Time 2:	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="30"/>
Off Time 2:	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="400"/>
On Time 3:	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Off Time 3:	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective.

When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: Making call to another equipment will change the frequency of Ring Back Tone.

6.6 Advanced Setting

6.6.1 Functions

Advanced Setting provides ICMP not Echo, Send Anonymous CID, Billing Signal CPC Delay, CPC Duration, Send Flash event, and SIP Encrypt PPPoE retry period System Log Server functions.

6.6.2 Instructions

Advanced Setting (VoIP only)

Advanced Setting

You could change advanced setting in this page.

Auto Answer Call:	<input type="radio"/> Yes <input checked="" type="radio"/> No
ICMP Not Echo:	<input type="radio"/> Yes <input checked="" type="radio"/> No
Send Anonymous CID:	Disabled <input type="button" value="v"/>
Management from WAN:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Stop feature tone:	<input type="radio"/> Yes <input checked="" type="radio"/> No (MMI,forward,block....)
IP Dialing format:	Type 1 (xx@x.x.x.x) <input type="button" value="v"/>
Send Flash event:	Disabled <input type="button" value="v"/>
Encryption Type:	Disabled <input type="button" value="v"/>
Encryption Key:	●●●●●●●●●●●●●●●●
PPPoE retry period:	5 Seconds
System Log Server:	172.16.0.100
System Log Type:	All <input type="button" value="v"/>

ICMP Not Echo	Default: No. When setting to YES, ICMP Not Echo function will be active.
Send Anonymous CID	Default: No. When setting to YES, sending out CID cannot be found by another person. Your Registered Proxy server must support this function.
Send Flash event	Default: Disable. Provides Disable, DTMF Event and SIP Info modes.
PPPoE retry period	Default: 5 (Seconds); setting how long it takes for PPPoE retry when PPPoE fails. Only numerals are accepted; data range: (5~255); maximum length: 3 bytes.
System Log Server	Display the system Log Server information and send System Log to the Server. Can be IP Address or Domain Name Address. Format: xxx.xxx.xxx.xxx; maximum length: 63 bytes.
System Log Type	Default: None. Provides None, Call Statistics, General Debug, Call Statistics + General Debug, SIP Debug, Call Statistics + SIP Debug, General Debug + SIP Debug and All modes.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

6.6.3 Operating Instructions

Example 1: Sending Anonymous CID

Step 1: On the main page, select [System→Advanced] and enter [Advanced] page. After starting it, click

[Submit].

Advanced Setting

You could change advanced setting in this page.

Auto Answer Call:	<input type="radio"/> Yes <input checked="" type="radio"/> No
ICMP Not Echo:	<input type="radio"/> Yes <input checked="" type="radio"/> No
Send Anonymous CID:	Disabled <input type="button" value="v"/>
Management from WAN:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Stop feature tone:	<input type="radio"/> Yes <input checked="" type="radio"/> No (MMI,forward,block....)
IP Dialing format:	Type 1 (xx@x.x.x.x) <input type="button" value="v"/>
Send Flash event:	Disabled <input type="button" value="v"/>
Encryption Type:	Disabled <input type="button" value="v"/>
Encryption Key:	●●●●●●●●●●●●●●●●
PPPoE retry period:	5 Seconds
System Log Server:	172.16.0.100
System Log Type:	All <input type="button" value="v"/>

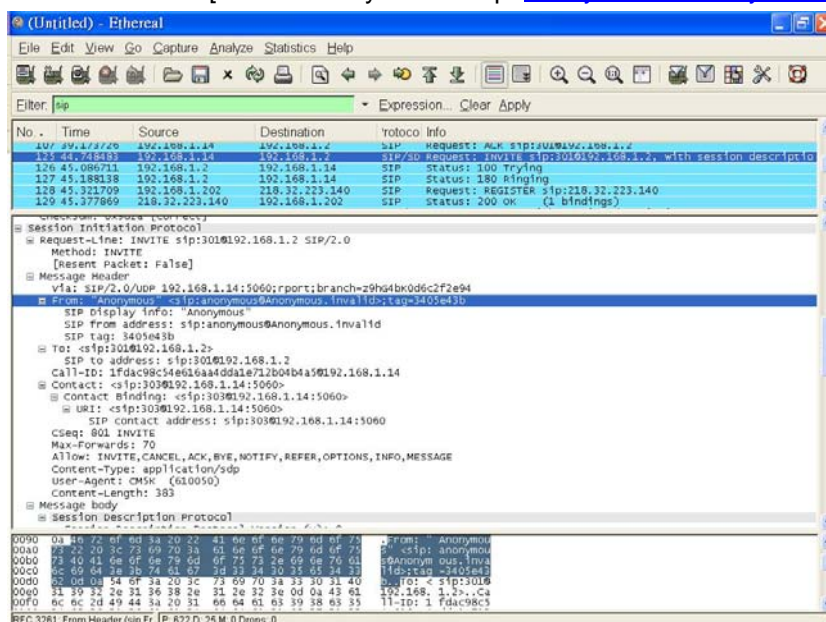
Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective.

When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: After rebooting and making call to another equipment, dialing out CID cannot be found. Please check

[Ethereal] Packet and column [From: “Anonymous” <sip: anonymous@anonymous.invalid>]



The screenshot shows a Wireshark capture of a SIP INVITE packet. The packet list pane shows the following entries:

No.	Time	Source	Destination	Protocol	Info
107	39.477720	192.168.1.14	192.168.1.2	SIP	REQUEST: ACK sip:218.32.223.140
125	45.248493	192.168.1.14	192.168.1.2	SIP	SD Request: INVITE sip:3030192.168.1.2, with session description
126	45.086711	192.168.1.2	192.168.1.14	SIP	Status: 100 Trying
127	45.188138	192.168.1.2	192.168.1.14	SIP	Status: 180 Ringing
128	45.321709	192.168.1.202	218.32.223.140	SIP	Request: REGISTER sip:218.32.223.140
129	45.377669	218.32.223.140	192.168.1.202	SIP	Status: 200 OK (1 bindings)

The packet details pane for the selected SIP INVITE packet (No. 125) shows the following structure:

- Session Initiation Protocol
 - Request-Line: INVITE sip:3030192.168.1.2 SIP/2.0
 - Method: INVITE
 - [Resend Packet: False]
 - Message Header
 - Via: SIP/2.0/UDP 192.168.1.14:5060;rport;branch=29hs4bx0d6c2f2e94
 - From: "Anonymous" <sip:anonymous@anonymous.invalid>;tag=3405e43b
 - SIP Display Info: "Anonymous"
 - SIP From address: sip:anonymous@anonymous.invalid
 - SIP Tag: 3405e43b
 - To: <sip:3030192.168.1.2>
 - SIP To address: sip:3030192.168.1.2
 - Call-ID: fdac98c34e616aa4dda1e712b04b4a50192.168.1.14
 - Contact: <sip:3030192.168.1.14:5060>
 - contact Binding: <sip:3030192.168.1.14:5060>
 - URI: <sip:3030192.168.1.14:5060>
 - SIP contact address: sip:3030192.168.1.14:5060
 - CSeq: 801 INVITE
 - Max-Forwards: 70
 - Allow: INVITE, CANCEL, ACK, BYE, NOTIFY, REFER, OPTIONS, INFO, MESSAGE
 - Content-Type: application/sdp
 - User-Agent: CMSK (640050)
 - Content-Length: 363
 - Message body
 - session description protocol

Example 2: Sending Flash Event

◆ Send Flash Event: DTMF Event

Step 1: On the main page, select [System→Advanced] and enter [Advanced] page. After revising the information, (e.g., Send Flash event: DTMF Event), click [Submit].

Advanced Setting

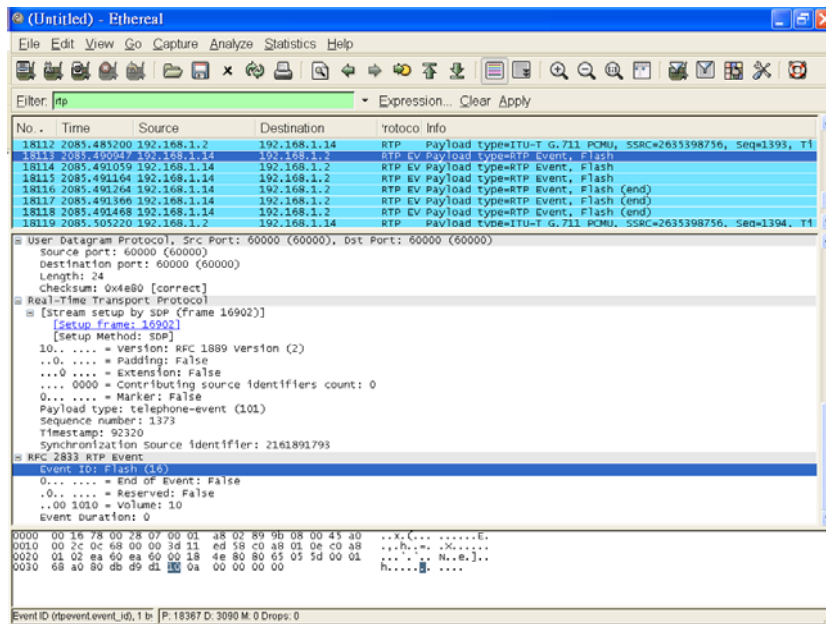
You could change advanced setting in this page.

Auto Answer Call:	<input type="radio"/> Yes <input checked="" type="radio"/> No
ICMP Not Echo:	<input type="radio"/> Yes <input checked="" type="radio"/> No
Send Anonymous CID:	Disabled <input type="button" value="v"/>
Management from WAN:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Stop feature tone:	<input type="radio"/> Yes <input checked="" type="radio"/> No (MMI,forward,block....)
IP Dialing format:	Type 1 (xx@x.x.x.x) <input type="button" value="v"/>
Send Flash event:	DTMF EVENT <input type="button" value="v"/>
Encryption Type:	Disabled <input type="button" value="v"/>
Encryption Key:	●●●●●●●●●●●●●●
PPPoE retry period:	5 Seconds
System Log Server:	172.16.0.100
System Log Type:	All <input type="button" value="v"/>

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective. When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: After rebooting and making call to another equipment, please press [Flash] which will change to SIP Info, and then check [Ethereal] and column [Event ID: Flash].



◆ Sending Flash Event: SIP Info

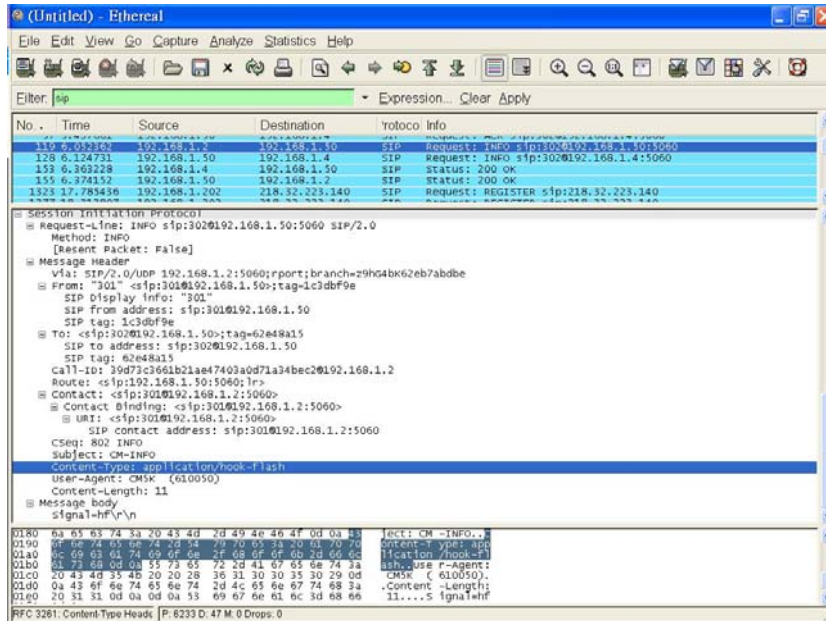
Step 1: On the main page, select [System→Advanced] and enter [Advanced] page. After changing Send Flash event, (e.g., Send Flash event: SIP Info), click [Submit].

Advanced Setting

You could change advanced setting in this page.

Auto Answer Call:	<input type="radio"/> Yes <input checked="" type="radio"/> No
ICMP Not Echo:	<input type="radio"/> Yes <input checked="" type="radio"/> No
Send Anonymous CID:	Disabled
Management from WAN:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Stop feature tone:	<input type="radio"/> Yes <input checked="" type="radio"/> No (MMI,forward,block....)
IP Dialing format:	Type 1 (xx@x.x.x.x)
Send Flash event:	SIP INFO
Encryption Type:	Disabled
Encryption Key:	●●●●●●●●●●●●●●●●
PPPoE retry period:	5 Seconds
System Log Server:	172.16.0.100
System Log Type:	All

- Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.
- Step 3: On the main page, press the “save” button on the upper right corner to make the change effective. When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.
- Step 4: After rebooting and making call to another equipment, please press [Flash], which will change to SIP Info, and then check [Ethereal] and column [Content-Type: application/hool-flash].



Example 4: PPPoE retry period

Step 1: On the main page, select [System→Advanced] and enter [Advanced] page. After revising PPPoE Retry Period, (e.g., PPPoE Retry Period: 20), click [Submit].

Advanced Setting

You could change advanced setting in this page.

Auto Answer Call:	<input type="radio"/> Yes <input checked="" type="radio"/> No
ICMP Not Echo:	<input type="radio"/> Yes <input checked="" type="radio"/> No
Send Anonymous CID:	Disabled <input type="button" value="v"/>
Management from WAN:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Stop feature tone:	<input type="radio"/> Yes <input checked="" type="radio"/> No (MMI,forward,block....)
IP Dialing format:	Type 1 (xx@x.x.x.x) <input type="button" value="v"/>
Send Flash event:	Disabled <input type="button" value="v"/>
Encryption Type:	Disabled <input type="button" value="v"/>
Encryption Key:	●●●●●●●●●●●●●●●●
PPPoE retry period:	20 Seconds
System Log Server:	172.16.0.100
System Log Type:	All <input type="button" value="v"/>

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective.

When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: Every other 20 seconds, the system will retry.

Example 5: System Log (Please start TFTP or System Log Server first)

◆ System Log Type: Call Statistics

Step 1: On the main page, select [System→Advanced] and enter [Advanced] page. After setting System Log, (e.g., System Log Server: 192.168.1.6, System Log Type: Call Statistics), click [Submit].

Advanced Setting

You could change advanced setting in this page.

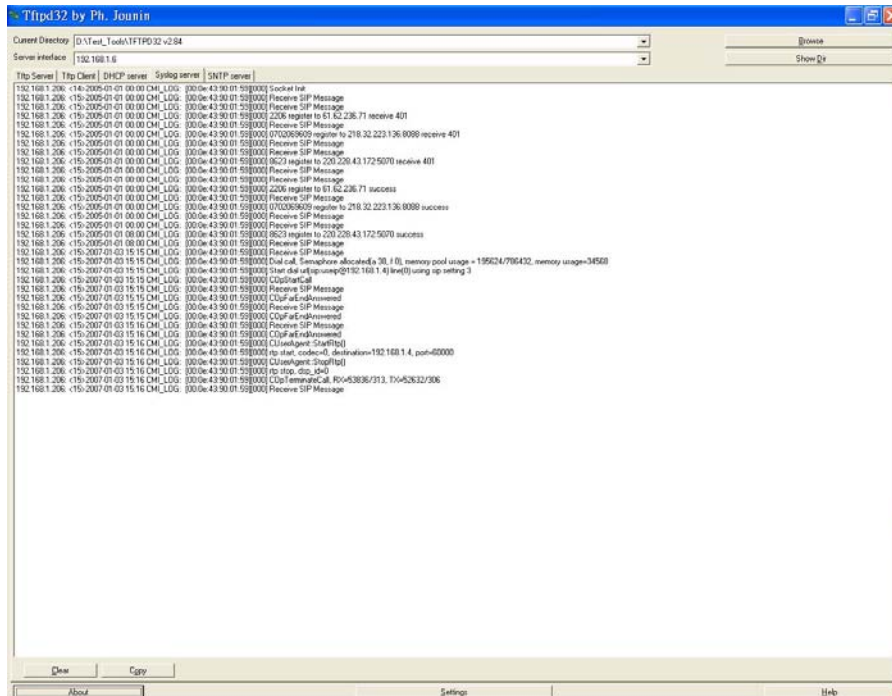
Auto Answer Call:	<input type="radio"/> Yes <input checked="" type="radio"/> No
ICMP Not Echo:	<input type="radio"/> Yes <input checked="" type="radio"/> No
Send Anonymous CID:	Disabled ▼
Management from WAN:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Stop feature tone:	<input type="radio"/> Yes <input checked="" type="radio"/> No (MMI,forward,block....)
IP Dialing format:	Type 1 (xx@x.x.x.x) ▼
Send Flash event:	Disabled ▼
Encryption Type:	Disabled ▼
Encryption Key:	●●●●●●●●●●
PPPoE retry period:	20 Seconds
System Log Server:	192.168.1.6
System Log Type:	Call Statistics ▼

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective.

When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: On [TFTP Server] -- [Syslog server] page, new messages are received.



◆ System Log Type: General Debug

Step 1: On the main page, select [System→Advanced] and enter [Advanced] page.

After setting System Log, (e.g., System Log Server: 192.168.1.6, System Log Type: General Debug), click [Submit].

Advanced Setting

You could change advanced setting in this page.

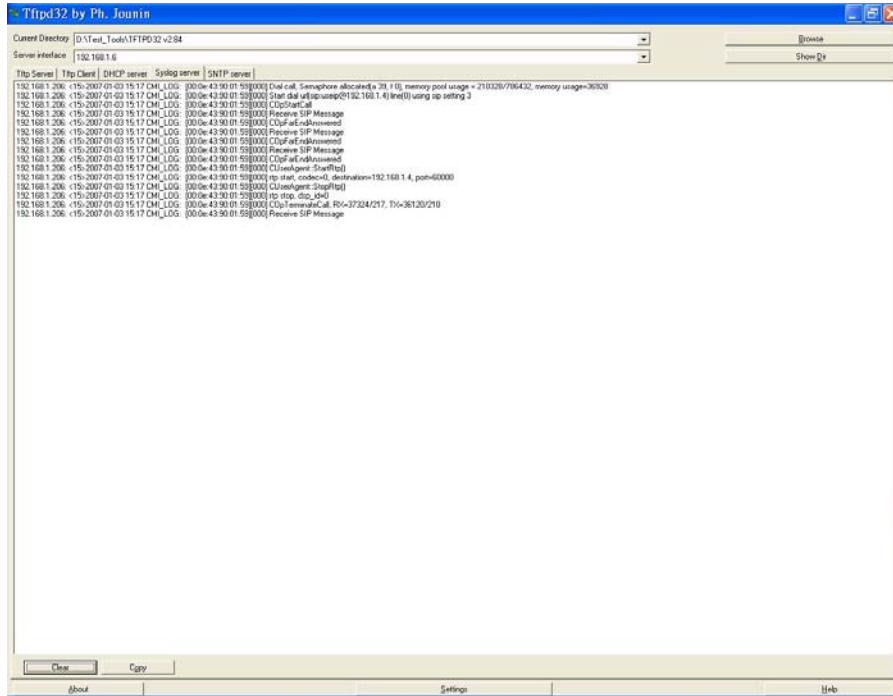
Auto Answer Call:	<input type="radio"/> Yes <input checked="" type="radio"/> No
ICMP Not Echo:	<input type="radio"/> Yes <input checked="" type="radio"/> No
Send Anonymous CID:	Disabled
Management from WAN:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Stop feature tone:	<input type="radio"/> Yes <input checked="" type="radio"/> No (MMI,forward,block....)
IP Dialing format:	Type 1 (xx@x.x.x.x)
Send Flash event:	Disabled
Encryption Type:	Disabled
Encryption Key:	●●●●●●●●●●●●●●●●
PPPoE retry period:	20 Seconds
System Log Server:	192.168.1.6
System Log Type:	General Debug

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective.

When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: On [TFTP Server] -- [Syslog server] page, new messages are received.



◆ **System Log Type: Call Statistics + General Debug**

Step 1: On the main page, select [System→Advanced] and enter [Advanced] page. After setting System Log, (e.g.: System Log Server: 192.168.1.6, System Log Type: Call Statistics + General Debug), click [Submit].

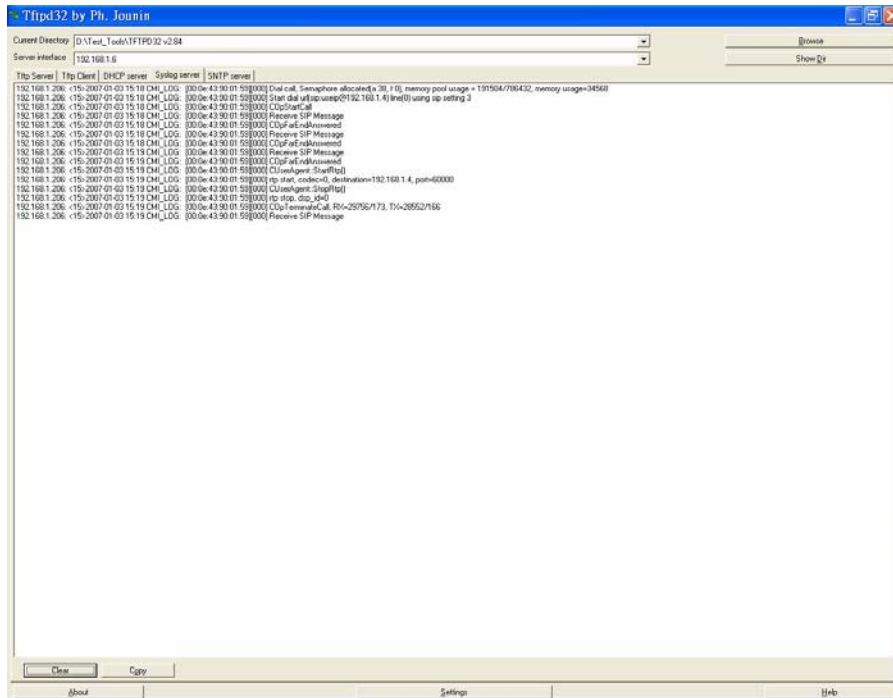
Advanced Setting

You could change advanced setting in this page.

Auto Answer Call:	<input type="radio"/> Yes <input checked="" type="radio"/> No
ICMP Not Echo:	<input type="radio"/> Yes <input checked="" type="radio"/> No
Send Anonymous CID:	Disabled ▼
Management from WAN:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Stop feature tone:	<input type="radio"/> Yes <input checked="" type="radio"/> No (MMI,forward,block....)
IP Dialing format:	Type 1 (xx@x.x.x.x) ▼
Send Flash event:	Disabled ▼
Encryption Type:	Disabled ▼
Encryption Key:	●●●●●●●●●●●●●●●●
PPPoE retry period:	20 <input type="text"/> Seconds
System Log Server:	192.168.1.6 <input type="text"/>
System Log Type:	Call Statistics+General Debug ▼

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.
 Step 3: On the main page, press the “save” button on the upper right corner to make the change effective.
 When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: On [TFTP Server] -- [Syslog server] page, new messages are received.



◆ System Log Type: SIP Debug

Step 1: On the main page, select [System→Advanced] and enter [Advanced] page. After setting System Log, (e.g.: System Log Server: 192.168.1.6, System Log Type: SIP Debug), click [Submit].

Advanced Setting

You could change advanced setting in this page.

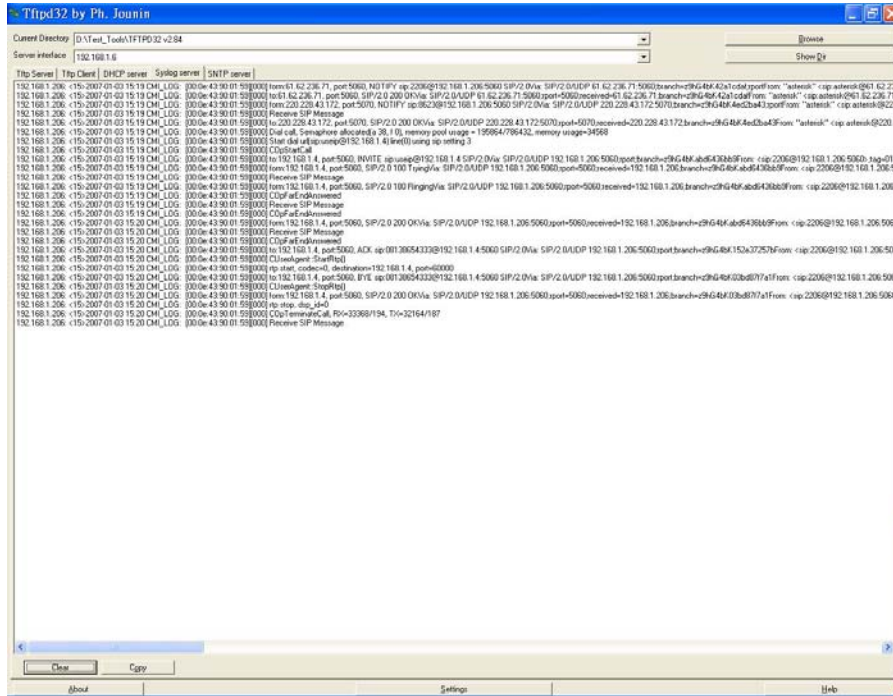
Auto Answer Call:	<input type="radio"/> Yes <input checked="" type="radio"/> No
ICMP Not Echo:	<input type="radio"/> Yes <input checked="" type="radio"/> No
Send Anonymous CID:	Disabled
Management from WAN:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Stop feature tone:	<input type="radio"/> Yes <input checked="" type="radio"/> No (MMI,forward,block....)
IP Dialing format:	Type 1 (xx@x.x.x.x)
Send Flash event:	Disabled
Encryption Type:	Disabled
Encryption Key:	●●●●●●●●●●●●●●●●
PPPoE retry period:	20 Seconds
System Log Server:	192.168.1.6
System Log Type:	SIP Debug

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective.

When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: On [TFTP Server] -- [Syslog server] page, new messages are received.



◆ **System Log Type: Call Statistics + SIP Debug**

Step 1: On the main page, select [System→Advanced] and enter [Advanced] page. After setting System Log, (e.g.: System Log Server: 192.168.1.6, System Log Type: Call Statistics + SIP Debug), click [Submit].

Advanced Setting

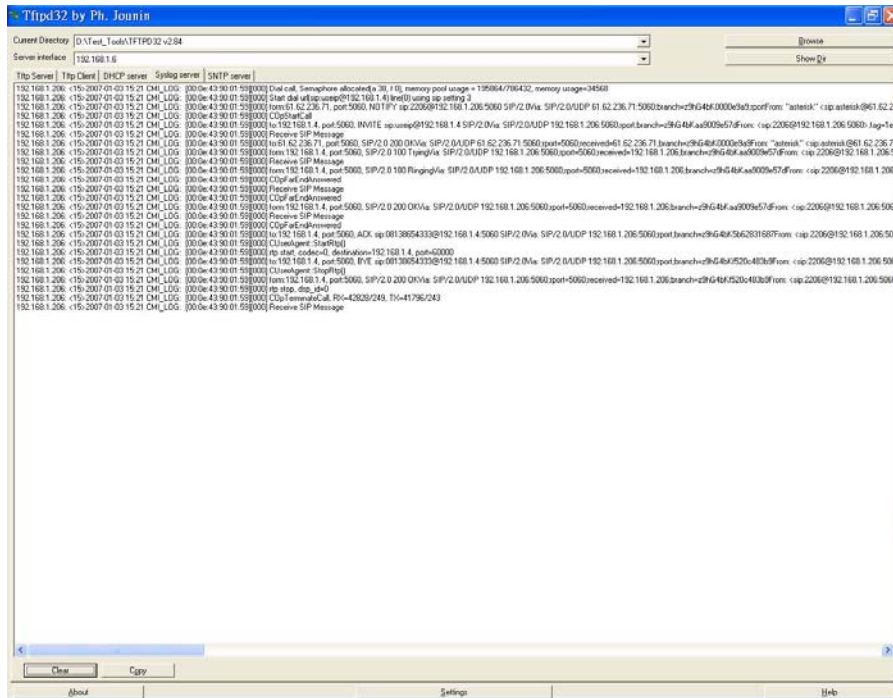
You could change advanced setting in this page.

Auto Answer Call:	<input type="radio"/> Yes <input checked="" type="radio"/> No
ICMP Not Echo:	<input type="radio"/> Yes <input checked="" type="radio"/> No
Send Anonymous CID:	Disabled ▼
Management from WAN:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Stop feature tone:	<input type="radio"/> Yes <input checked="" type="radio"/> No (MMI,forward,block....)
IP Dialing format:	Type 1 (xx@x.x.x.x) ▼
Send Flash event:	Disabled ▼
Encryption Type:	Disabled ▼
Encryption Key:	●●●●●●●●●●●●●●●●
PPPoE retry period:	20 Seconds
System Log Server:	192.168.1.6
System Log Type:	Call Statistics+SIP Debug ▼

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective. When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step4: On [TFTP Server] -- [Syslog server] page, new messages are received.



◆ System Log Type: General Debug + SIP Debug

Step 1: On the main page, select [System→Advanced] and enter [Advanced] page. After setting System Log, (e.g.: System Log Server: 192.168.1.6, System Log Type: General Debug + SIP Debug), click [Submit].

Advanced Setting

You could change advanced setting in this page.

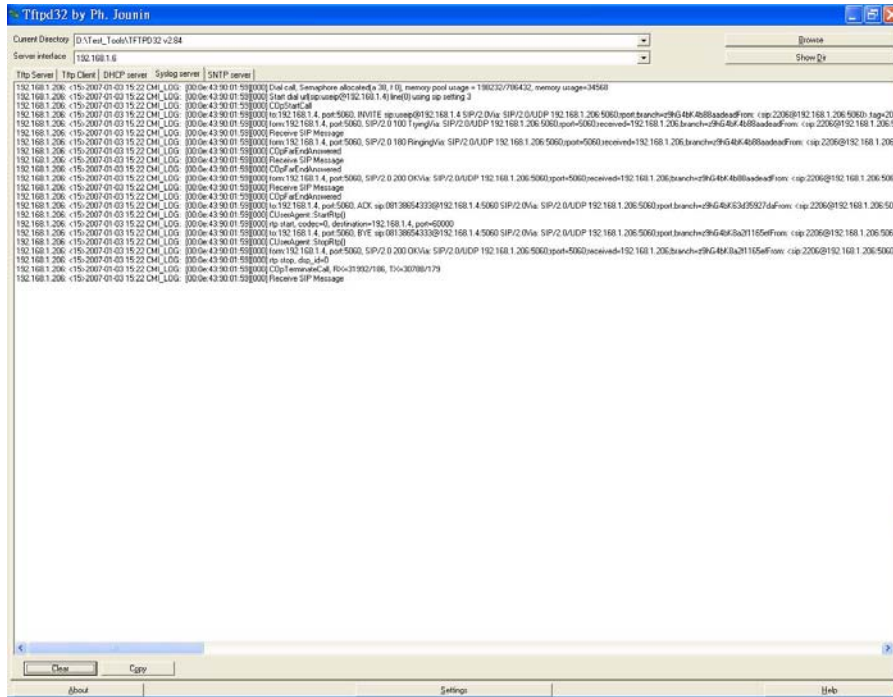
Auto Answer Call:	<input type="radio"/> Yes <input checked="" type="radio"/> No
ICMP Not Echo:	<input type="radio"/> Yes <input checked="" type="radio"/> No
Send Anonymous CID:	Disabled
Management from WAN:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Stop feature tone:	<input type="radio"/> Yes <input checked="" type="radio"/> No (MMI,forward,block....)
IP Dialing format:	Type 1 (xx@x.x.x.x)
Send Flash event:	Disabled
Encryption Type:	Disabled
Encryption Key:	●●●●●●●●●●
PPPoE retry period:	20 Seconds
System Log Server:	192.168.1.6
System Log Type:	General Debug+SIP Debug

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective.

When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: On [TFTP Server] -- [Syslog server] page, new messages are received.



◆ **System Log Type: All**

Step 1: On the main page, select [System→Advanced] and enter [Advanced] page. After setting System Log, (e.g.: System Log Server: 192.168.1.6, System Log Type: All), click [Submit].

Advanced Setting

You could change advanced setting in this page.

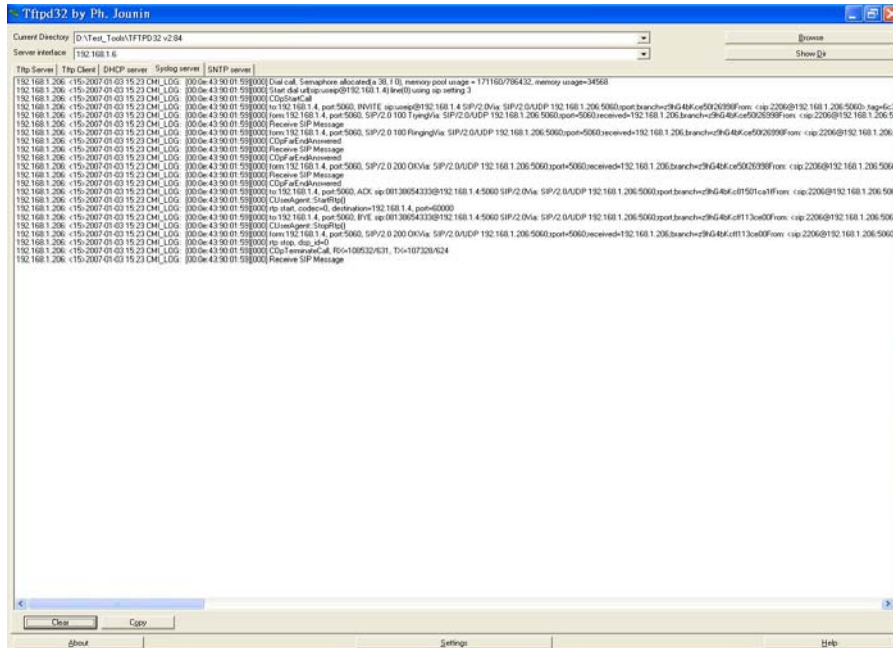
Auto Answer Call:	<input type="radio"/> Yes <input checked="" type="radio"/> No
ICMP Not Echo:	<input type="radio"/> Yes <input checked="" type="radio"/> No
Send Anonymous CID:	Disabled ▼
Management from WAN:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Stop feature tone:	<input type="radio"/> Yes <input checked="" type="radio"/> No (MMI,forward,block....)
IP Dialing format:	Type 1 (xx@x.x.x.x) ▼
Send Flash event:	Disabled ▼
Encryption Type:	Disabled ▼
Encryption Key:	●●●●●●●●●●
PPPoE retry period:	20 Seconds
System Log Server:	192.168.1.6
System Log Type:	All ▼

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective.

When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: On [TFTP Server] -- [Syslog server] page, new messages are received.



6.7 Log

6.7.1 Function

Show log in this web.

Status Log

```
<2005-01-01 00:00>Application starting ...
<2005-01-01 00:00>Init Wan Interface!
<2005-01-01 00:00>Iface type : FIXED_IP
<2005-01-01 00:00>Init Lan Interface!
<2005-01-01 00:00>Iface type : FIXED_IP
```

6.8 Auto Answer (for FXO)

6.8.1 Function

Auto Answer provides auto answer and switches to FXO.

6.8.2 Instructions

Auto Answer

You could enable/disable the auto answer in this page.

Auto Answer:	<input checked="" type="radio"/> Off <input type="radio"/> IP IN <input type="radio"/> FXO IN <input type="radio"/> Both <input type="radio"/> Trunk Gateway
Auto Answer Counter:	<input style="width: 40px;" type="text" value="3"/> (0~8)
PIN Code Enabled:	<input checked="" type="radio"/> Off <input type="radio"/> On
PIN Code:	<input style="width: 150px;" type="text"/>

Auto Answer	Default OFF. When setting to IP IN, the IP IN's auto answer will come into run.
Auto Answer Counter	Default 3 rd Ring; when ringing after 3 times, auto answer will run. Counter zone (0~8). Maximum length is 2 bytes.
Pin Code Enabled	Default OFF. When setting to ON, the right password is needed, and please press "#" after the password.
Pin Code	The password. Maximum length is 31 bytes.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

6.8.3 Operate Instruction

Example 1: Start the Auto Answer Function

Step 1: On the main page, select [System→Auto Answer] and enter [Auto Answer] page. After revising information (e.g., Auto Answer: IP IN, Auto Answer Counter: 1), click [Submit].

Auto Answer

You could enable/disable the auto answer in this page.

Auto Answer:	<input type="radio"/> Off <input checked="" type="radio"/> IP IN <input type="radio"/> FXO IN <input type="radio"/> Both <input type="radio"/> Trunk Gateway
Auto Answer Counter:	<input style="width: 40px;" type="text" value="1"/> (0~8)
PIN Code Enabled:	<input checked="" type="radio"/> Off <input type="radio"/> On
PIN Code:	<input style="width: 150px;" type="text"/>

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective.

When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: When an incoming call comes through FXO or FXO port, please wait for a while till the 2nd Dial Tone is heard, then please dial FXO port phone number.

Example 2: Start Auto Answer+ PIN Code Function

Step 1: On the main page, select [System→Auto Answer] and enter [Auto Answer] page. After revising information (e.g., Auto Answer: IP IN, Auto Answer Counter: 1, Pin Code Enabled: on, Pin Code: 123456), press [Submit].

Auto Answer

You could enable/disable the auto answer in this page.

Auto Answer:	<input type="radio"/> Off <input checked="" type="radio"/> IP IN <input type="radio"/> FXO IN <input type="radio"/> Both <input type="radio"/> Trunk Gateway
Auto Answer Counter:	<input type="text" value="1"/> (0~8)
PIN Code Enabled:	<input type="radio"/> Off <input checked="" type="radio"/> On
PIN Code:	<input type="text" value="*****"/>
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective.

When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: When dialing in through FXO or FXO port, please wait for a while till the dialing tone is heard, then input the Pin Code (e.g., 123456) ending with “#” and wait till the 2nd dialing tone is heard. Then input FXO port phone number.

6.9 Dial Plan Settings

6.9.1 Function

Dial Plan provides Dial Now, Auto Dial Time, Use # as send Key, and Use * for IP dialing function.

6.9.2 Instructions

Dial Plan

You could the set the dial plan in this page.

Routing to :	<input type="radio"/> IP <input type="radio"/> FXO <input checked="" type="radio"/> Disable
Routing rule :	<input type="text"/>
Drop prefix :	<input type="radio"/> Yes <input checked="" type="radio"/> No
Replace rule 1:	<input type="text"/> + <input type="text"/>
Drop prefix :	<input type="radio"/> Yes <input checked="" type="radio"/> No
Replace rule 2:	<input type="text"/> + <input type="text"/>
Drop prefix :	<input type="radio"/> Yes <input checked="" type="radio"/> No
Replace rule 3:	<input type="text"/> + <input type="text"/>
Drop prefix :	<input type="radio"/> Yes <input checked="" type="radio"/> No
Replace rule 4:	<input type="text"/> + <input type="text"/>
Dial now:	<input type="text"/>
	<input type="text"/>
	<input type="text"/>
	Exp: 1[137]XX+345XX+45XX67
Realm 1 prefix:	<input type="text" value="1*"/>
Realm 2 prefix:	<input type="text" value="2*"/>
Realm 3 prefix:	<input type="text" value="3*"/>
PSTN feature code:	<input type="text" value="0*"/>
Auto Dial Time:	<input type="text" value="5"/> (3~9 sec)
Use # as send key:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Auto PSTN backup:	<input type="radio"/> Yes <input checked="" type="radio"/> No
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

Drop Prefix	Default: No (Encode). When encountering the accordant rule, a new number will be added in front of the dialing number. When setting to YES, and encountering the accordant rule, a new number will replace the dialing number.
Replace rule 1	Providing the setting number information. 7-digit number is preferred, from (0~9999999) Can be numerals or characters. Maximum length is 8 bytes.
+	Provides the rules for encode and decode. Maximum length is 31 digit number; can be numerals or signs (+, x). (+) means "Or"; (x) means any numbers that is from 0~9, e.g., 123+456+334+5xx, means 123 or 456 or 334 or 5xx (any number that begins with 5)
Drop Prefix	Default: No (Encode). When encountering the accordant rule, a new number

	will be added in front of the dialing number. When setting to YES, and encountering the accordant rule, a new number will replace the dialing number.
+	Provides the rules for encode and decode. Maximum length is 31-digit number; can be numerals or signs (+, x). (+) means "Or"; (x) means any number that is from 0~9. Maximum length is 40 bytes.
Replace rule 2	Providing the setting number information. 7-digit number is preferred, from (0~9999999). Maximum length is 8 bytes.
+	Provides the rules for encode and decode. Maximum length is 31-digit number; can be numerals or signs (+, x). (+) means "Or"; (x) means any number that is from 0~9.
Drop Prefix	Default: No (Encode). When encountering the accordant rule, a new number will be added in front of the dialing number. When setting to YES, and encountering the accordant rule, a new number will replace the dialing number.
Replace rule 3	Providing the setting number information. 7-digit number is preferred, from (0~9999999). Maximum length is 8 bytes.
+	Provides the rules for encode and decode. Maximum length is 31-digit number; can be numerals or signs (+, x). (+) means "Or"; (x) means any number that is from 0~9. Maximum length is 40 bytes.
Drop Prefix	Default: No (Encode). When encountering the accordant rule, a new number will be added in front of the dialing number. When setting to YES, and encountering the accordant rule, a new number will replace the dialing number.
Replace rule 4	Providing the setting number information. 7-digit number is preferred, from (0~9999999). Maximum length is 8 bytes.
+	Provides the rules for encode and decode. Maximum length is 31-digit number; can be numerals or signs (+, x). (+) means "Or"; (x) means any number that is from 0~9. Maximum length is 40 bytes.
Dial Now	<p>Provides the rules for encode and decode. Maximum length is 31 digits number;</p> <div style="border: 1px solid black; padding: 5px;">  <p>But the first digit cannot be "0". Because 0 cannot judge the rule. So if Dial Now begins with "0", the system cannot work. Maximum length is 124 bytes.</p> </div> <p>can be numerals or signs (+, x). (+) means "Or"; (x) means any number that is from 0~9.</p>
Auto Dial Time	Default: 5 seconds. After waiting for a while, but didn't input any number, Auto Dial will run automatically. Time zone: (3~9 sec). Maximum length is 3 bytes.
Use # for send key	Default: YES. It ends with # when executing this action. When setting to NO, it didn't end with # when executing this action, but according to Auto Dial Time, after waiting for a while, and didn't input any information, then execute this action.
Use * for IP dialing	Default: YES. When inputting "*", it will be used as ".". For example, when inputting 192*168*1*100#, it will execute"192.168.1.100#". When setting to NO, while dialing, inputting (*) doesn't mean (.).
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

6.9.3 Operating Instructions

Example 1: Dial Plan Function

Step 1: On the main page, select [System→Dial Plan] and enter [Dial Plan] page. After revising information (e.g., Drop prefixNo, Replace rule1 002, 8613+8662; Drop prefixYes, Replace rule2 006, 002+003+004+005+007+009; Drop prefixNo, Replace rule3 009, 12; Drop prefixNo, Replace rule4 007, 5xxx+35xx+21xx; Dial Now*xx+#xx+11x +xxxxxxx), press [Submit].

Dial Plan

You could the set the dial plan in this page.

Routing to :	<input type="radio"/> IP <input type="radio"/> FXO <input checked="" type="radio"/> Disable
Routing rule :	<input type="text"/>
Drop prefix :	<input type="radio"/> Yes <input checked="" type="radio"/> No
Replace rule 1:	<input type="text" value="002"/> + <input type="text" value="8613+8662"/>
Drop prefix :	<input checked="" type="radio"/> Yes <input type="radio"/> No
Replace rule 2:	<input type="text" value="006"/> + <input type="text" value="002+003+004+005+007+009"/>
Drop prefix :	<input type="radio"/> Yes <input checked="" type="radio"/> No
Replace rule 3:	<input type="text" value="009"/> + <input type="text" value="12"/>
Drop prefix :	<input type="radio"/> Yes <input checked="" type="radio"/> No
Replace rule 4:	<input type="text" value="007"/> + <input type="text" value="5xxx+35xx+21xx"/>
	<input type="text"/>
	<input type="text"/>
	<input type="text"/>
	Exp: 1[137]XX+345XX+45XX67
Realm 1 prefix:	<input type="text" value="1*"/>
Realm 2 prefix:	<input type="text" value="2*"/>
Realm 3 prefix:	<input type="text" value="3*"/>
PSTN feature code:	<input type="text" value="0*"/>
Auto Dial Time:	<input type="text" value="5"/> (3~9 sec)
Use # as send key:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Auto PSTN backup:	<input type="radio"/> Yes <input checked="" type="radio"/> No
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective. When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Instruction 1: Drop prefixNo, Replace rule 1 002, 8613+8662.

Application 1: When dialing 8613, all numbers that begin with 8613 will be added with 002, so actually the dialing number is [002+8613+xxx].

Application 2: When dialing 8662, all numbers that begin with 8662 will be added with 002, so actually the dialing number is [002+8662+xxx].

Instruction 2: Drop prefixYes, Replace rule 2 006, 002+003+004+005+007+009.

Application 1: When inputting 002, all numbers that begin with 002 will be replaced by 006; so actually the dialing number is [006+xxx]

Application 2: When inputting 003, all numbers that begin with 003 will be replaced by 006; so actually the dialing number is [006+xxx].

Instruction 3: Drop prefixNo, Replace rule 3 009, 12.

Application 1: When inputting 12, all numbers that begin with 12 will be added with 009; so actually the dialing number is [009+12+xxx].

Instruction 4: Drop prefixNo, Replace rule 4 007, 5xxx+35xx+21xx.

Application 1: When inputting 5xxx, all 4-digit numbers that begin with 5 will be added with 007; so actually the dialing number is [007+5xxx].

Application 2: When inputting 534, all 3-digit numbers that begin with 5 doesn't match the encode rule; so actually the dial out number is [534]

Application 3: When inputting 35xxx, all 5-digit numbers that begin with 35 will be added with 007; so actually the dialing number is [007+5xxx].

Application 4: When dialing 358822, it begins with 35, but there are 4 digits after 35, so it doesn't match the encode rule, so actually the dial out number is [358822]

Instruction 5: Dial Now*xx+#xx+11x+xxxxxxx.

Application 1: Any information that meets the condition"*xx" will be sent out immediately, like *00, *01, *02... *99. If inputting "*0#", send out number is"*0#"

Application 2: Any information that meets the condition" #xx" will be sent out immediately, like #00, #01, #02...#99.

Application 3: Any information that meets the condition"11x" will be sent out immediately, like 110, 111, 112 ... 119. If dial number is"118", the send out number is 118.

Application 4: If inputting 8-digit number, the system will send out the number immediately. For example, 12345678.

Chapter 7. Phone Book

It provides Phone Book and Speed Dial function.

7.1 Phone Book

7.1.1 Functions

Phone Book can provide 140 entries. Let's say, Party A calls Party B. If Party B's name is in the phone book, then Party B's name will be shown on the phone. If not, party B's phone number will be seen.

7.1.2 Instructions

Phone Book

You could add/delete items in current phone book.

Phone Book Page:

Phone	Name	Number or URL	Select
0	1	23	<input type="checkbox"/>
1	2	14	<input type="checkbox"/>
2	3	58	<input type="checkbox"/>
3	4	63	<input type="checkbox"/>
4	5	89	<input type="checkbox"/>
5	123	123	<input type="checkbox"/>
6			<input type="checkbox"/>
7			<input type="checkbox"/>
8			<input type="checkbox"/>
9			<input type="checkbox"/>


Add New Phone

Position: (0~139)

Name:

Number or URL:

Phone Book Page	Default: Page 1. Select the page, from Page1~Page14.
Phone	Shows the serial number. 140 entries in total, from Phone 0~139
Name	Shows the User's name.
Number or URL	Shows the URL information.
Select	Select this entry.


Delete [Button]	Selected	Delete selected information.
Delete All [Button]		Delete all information.
Reset [Button]		Reset selected information.
Add New Phone		Add new phone book information.
Position		Input serial number, from (0~139). Maximum length is 3 bytes.
Name		Input serial number; can be digits or names. Maximum length is 31 bytes.
		 Suggest you pick digits, which can be used as speed dialing numbers.
Number or URL		Input Line Number or IP information. Maximum length is 63 bytes.
Add Phone [Button]		Add this new entry.
Reset [Button]		Delete selected information.

7.1.3 Operating Instructions

Step 1: On the main page, select [Phone Book→Phone Book] and enter [Phone Book] page. Revise the information (Phone: 0, Name: 301, Number or URL: [301@192.168.1.2](#)) and then press the key [Add Phone].

Phone Book

You could add/delete items in current phone book.

Phone Book Page: 

Phone	Name	Number or URL	Select
0			<input type="checkbox"/>
1			<input type="checkbox"/>
2			<input type="checkbox"/>
3			<input type="checkbox"/>
4			<input type="checkbox"/>
5			<input type="checkbox"/>
6			<input type="checkbox"/>
8			<input type="checkbox"/>
9			<input type="checkbox"/>

Add New Phone

Position: (0~139)
 Name:
 Number or URL:

Step 2: After adding the new information (see the table shown below), if no information is added, please

save change.

Phone Book

You could add/delete items in current phone book.

Phone Book Page: page 1

Phone	Name	Number or URL	Select
0	301	192.168.1.2	<input type="checkbox"/>
1			<input type="checkbox"/>
2			<input type="checkbox"/>
3			<input type="checkbox"/>
4			<input type="checkbox"/>
5			<input type="checkbox"/>
6			<input type="checkbox"/>
8			<input type="checkbox"/>
9			<input type="checkbox"/>

Add New Phone

Position: (0~139)
Name:
Number or URL:

Step 3: On the main page, press the save button on upper right corner to make the change effective. The [Note Information] page will be seen, meaning it has been saved successfully. And the system will reboot. Please wait for a while.

Phone Book

You could add/delete items in current phone book.

Phone Book Page: page 1 ▼

Phone	Name	Number or URL	Select
0	301	192.168.1.2	<input type="checkbox"/>
1	206	17476433364	<input type="checkbox"/>
2	202	192.168.1.202:5062	<input type="checkbox"/>
3			<input type="checkbox"/>
4			<input type="checkbox"/>
5			<input type="checkbox"/>
6			<input type="checkbox"/>
7			<input type="checkbox"/>
8			<input type="checkbox"/>
9			<input type="checkbox"/>

Delete Selected
Delete All
Reset

Instruction 1: Name: 301, Number or URL: 301@192.168.1.2.

Application 1: The user picks up the phone, inputs [301], which, in [Name] column is [192.168.1.2] that rings

Instruction 2: Name: 206, Number or URL: 17476433364.

Application 1: The user picks up the phone, inputs [206], which, in [Name] column is [17476433364] that rings.

Instruction 3: Name: 202, Number or URL: 192.168.1.202:5062.

Application 1: The user picks up the phone, inputs [202], which, in [Name] column is [192.168.1.2:5062] that IP: 192.168.1.2 and port 5062 ring.

Application 2: The user picks up the phone, inputs [0227458080], but no information is found in [Name] column, so the requirement will be sent directly.

7.1.4 Speed Dial (for Phone)

7.1.4.1 Function

Speed Dial Phone List can provide 10 entries in total and must be used with Function Key.

7.1.4.2 Instruction

Speed Dial Setting (VoIP Phone Only)

Speed Dial Phone List

You could set the speed dial phones in this page.

Phone	Name	Number or URL	Select
0			<input type="checkbox"/>
1			<input type="checkbox"/>
2			<input type="checkbox"/>
3			<input type="checkbox"/>
4			<input type="checkbox"/>
5			<input type="checkbox"/>
6			<input type="checkbox"/>
7			<input type="checkbox"/>
8			<input type="checkbox"/>
9			<input type="checkbox"/>

Add New Phone

Position: (0~9)
 Name:
 Number or URL:

Phone	Show the serial number. 10 entries in total.
Name	Show the user's name.
Number or URL	Show the URL information.
Select	Select the information.
Delete Selected [Button]	Delete all selected information.
Delete All [Button]	Delete all information.
Reset [Button]	Reset selected information.
Add New Phone	Add new speed dial phone book information.
Position	Input serial number, from (0~9). Maximum length is 1 bytes.
Name	Input the code, numbers or names; maximum length is 31 bytes.
Number or URL	Input Line Number or IP information; maximum length is 63 bytes.
Add Phone [Button]	Add this new entry.
Reset [Button]	Reset selected information.

7.1.4.3 Operating Instructions

Step 1: On the main page, select [Phone Book→Speed Dial] and enter [Speed Dial Phone List] page. After revising the information (Phone: 0, Name: test, Number or URL: 22068), press [Add Phone].

Speed Dial Phone List

You could set the speed dial phones in this page.

Phone	Name	Number or URL	Select
0			<input type="checkbox"/>
1			<input type="checkbox"/>
2			<input type="checkbox"/>
3			<input type="checkbox"/>
4			<input type="checkbox"/>
5			<input type="checkbox"/>
6			<input type="checkbox"/>
7			<input type="checkbox"/>
8			<input type="checkbox"/>
9			<input type="checkbox"/>

Add New Phone

Position: (0~9)
Name:
Number or URL:

Step 2: After adding all the new information, please save change.

Speed Dial Phone List

You could set the speed dial phones in this page.

Phone	Name	Number or URL	Select
0	test	22068	<input type="checkbox"/>
1			<input type="checkbox"/>
2			<input type="checkbox"/>
3			<input type="checkbox"/>
4			<input type="checkbox"/>
5			<input type="checkbox"/>
6			<input type="checkbox"/>
7			<input type="checkbox"/>
8			<input type="checkbox"/>
9			<input type="checkbox"/>

Add New Phone

Position: (0-9)
Name:
Number or URL:

Step 3: On the main page, press the save button on upper right corner to make the change effective. The [Note Information] page will be seen, meaning it has been saved successfully. And the system will reboot. Please wait for a while.

Speed Dial Phone List

You could set the speed dial phones in this page.

Phone	Name	Number or URL	Select
0	test	22068	<input type="checkbox"/>
1	080	23456	<input type="checkbox"/>
2	Fax	098395	<input type="checkbox"/>
3			<input type="checkbox"/>
4			<input type="checkbox"/>
5			<input type="checkbox"/>
6			<input type="checkbox"/>
7			<input type="checkbox"/>
8			<input type="checkbox"/>
9			<input type="checkbox"/>

Add New Phone

Position: (0~9)
Name:
Number or URL:

Chapter 8. Features Setting

It provides CallFwd, Volume, Rngtone, DND, Flash Time, CallWaiting, SoftKey, Hotline and Alarm.

8.1 Forward Setting

8.1.1 Function

Provides forward function.

8.1.2 Instruction

Forward Setting (VoIP Gateway/Phone Only)

Forward Setting

You could set the forward number of your phone in this page.

All Forward:	<input checked="" type="radio"/> Off	<input type="radio"/> IP	<input type="radio"/> PSTN
Busy Forward:	<input checked="" type="radio"/> Off	<input type="radio"/> IP	
No Answer Forward:	<input checked="" type="radio"/> Off	<input type="radio"/> IP	<input type="radio"/> PSTN

	Name	Number or URL
All Fwd No.:	<input type="text"/>	<input type="text"/>
Busy Fwd No.:	<input type="text"/>	<input type="text"/>
No Answer Fwd No.:	<input type="text"/>	<input type="text"/>

No Answer Fwd Time Out: (2~8 Ring)

All Forward	Default: Off. When setting to On, all incoming calls will be forwarded, in support of IP mode.
Busy Forward	Default: Off. When setting to On, and the line is busy, it will run to support IP mode.
No Answer Forward	Default: Off. When setting to On and there is nobody answering the phone, it will run to support IP mode.
All Fwd No.	All incoming calls will be forwarded.
Name	Show or Input the name.
Number or URL	Show or input the dialing information which can be Login Account, IP Address or PSTN Numbers; maximum length is 63 bytes.
Busy Fwd No.	Forward the call when line is busy.
Name	Show or set the name.
Number or URL	Show or input the dialing information which can be Login Account, IP Address or PSTN Numbers; maximum length is 63 bytes.
No Answer Fwd No.	Forward the call when nobody answers the phone.
Name	Show or set the name.
Number or URL	Show or input the dialing information which can be Login Account, IP Address or PSTN Numbers; maximum length is 63 bytes.

No Answer Fwd Time Out	Default: 5(Ring); when ringing 5 times but no one answers, it is regarded as no one answering the call. Data Range: (2~8 Ring). Maximum length is 2 bytes.
Submit [Button]	Save change.
Reset [Button]	Delete selected information.

8.1.3 Instructions

Forward Setting (VoIP Gateway/Phone + FXO Only)



Forward Setting

You could set the forward number of your phone in this page.

All Forward:	<input checked="" type="radio"/> Off <input type="radio"/> IP <input type="radio"/> PSTN
Busy Forward:	<input checked="" type="radio"/> Off <input type="radio"/> IP
No Answer Forward:	<input checked="" type="radio"/> Off <input type="radio"/> IP <input type="radio"/> PSTN

	Name	Number or URL
All Fwd No.:	<input type="text"/>	<input type="text"/>
Busy Fwd No.:	<input type="text"/>	<input type="text"/>
No Answer Fwd No.:	<input type="text"/>	<input type="text"/>

No Answer Fwd Time Out: (2~8 Ring)

All Forward	Default: Off. When setting to ON, all the incoming calls will be forwarded in IP mode or PSTN mode.  If the incoming call goes through FXO, the call could only be forwarded to IP mode.
Busy Forward	Default: Off. When setting to On, and the line is busy, the call will be forwarded only in IP mode.
No Answer Forward	Default: Off. When setting to On, and nobody answers the phone, it will run in IP mode or PSTN mode.  If the incoming call goes through FXO, the call could only be forwarded to IP mode.
All Fwd No.	All incoming calls will be forwarded.
Name	Show or input the name.
Number or URL	Show or input the dialing information which can be Login Account, IP Address or PSTN Numbers; maximum length is 63 bytes.
Busy Fwd No.	Forward the call when line is busy.
Name	Show or set the name.
Number or URL	Show or input the dialing information which can be Login Account, IP Address or PSTN Numbers; maximum length is 63 bytes.
No Answer Fwd No.	Forward the call when nobody answers the phone.
Name	Show or set the name.
Number or URL	Show or input the dialing information which can be Login Account, IP Address

	or PSTN Numbers; maximum length is 63 bytes.
No Answer Fwd Time Out	Default: 5(Ring), when ringing 5 times but no one answers, it is regarded as no one answering the call. Data Range: (2~8 Ring). Maximum length is 2 bytes.
Submit [Button]	Save change.
Reset [Button]	Delete selected information.

8.1.4 Operating Instructions

Example 1: Forwarded under any condition

Step 1: On the main page, select [Features→CallFwd] and enter [CallFwd] page. After revising all the information (All Forward: pstn, All fwd No Name: angel, Number or URL: 22067), press [Submit].

Forward Setting

You could set the forward number of your phone in this page.

All Forward:	<input type="radio"/> Off	<input type="radio"/> IP	<input checked="" type="radio"/> PSTN
Busy Forward:	<input checked="" type="radio"/> Off	<input type="radio"/> IP	
No Answer Forward:	<input checked="" type="radio"/> Off	<input type="radio"/> IP	<input type="radio"/> PSTN

	Name	Number or URL
All Fwd No.:	<input type="text" value="angel"/>	<input type="text" value="22067"/>
Busy Fwd No.:	<input type="text"/>	<input type="text"/>
No Answer Fwd No.:	<input type="text"/>	<input type="text"/>

No Answer Fwd Time Out: (2~8 Ring)

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective. When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: When receiving a new incoming call, it will be forwarded to code [Register Number: 22067] automatically.

Example 2: Busy Forward or No Answer Forward

Step 1: On the main page, select [Features→CallFwd], enter [CallFwd] page. After revising all the information (Busy Forward: IP, No Answer Forward: IP, Busy fwd No Name: Mobil, Number or URL: 0912345678, No Answer Fwd No Name: ext, Number or URL, click [Submit].

Forward Setting

You could set the forward number of your phone in this page.

All Forward:	<input checked="" type="radio"/> Off	<input type="radio"/> IP	<input type="radio"/> PSTN
Busy Forward:	<input type="radio"/> Off	<input checked="" type="radio"/> IP	
No Answer Forward:	<input type="radio"/> Off	<input checked="" type="radio"/> IP	<input type="radio"/> PSTN

	Name	Number or URL
All Fwd No.:	<input type="text"/>	<input type="text"/>
Busy Fwd No.:	<input type="text" value="Mobil"/>	<input type="text" value="0912345678"/>
No Answer Fwd No.:	<input type="text" value="ext"/>	<input type="text" value="22068"/>

No Answer Fwd Time Out:	<input type="text" value="5"/> (2~8 Ring)
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Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective. When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: When the line is busy, it will forward to Mobile [0912345678], and [0912345678] rings.

Step 5: When it rings 3 times, and nobody answers the phone, it will forward to [Register Number: 22068], and Register Account: 22068 rings.

Example 3: All incoming calls will be forwarded to IP

Step 1: On the main page, select [Features→CallFwd] and enter [CallFwd] page. After revising all the information (All Forward: IP, All fwd No Name: angel, Number or URL: 22067), click [Submit].

Forward Setting

You could set the forward number of your phone in this page.

All Forward:	<input type="radio"/> Off	<input checked="" type="radio"/> IP	<input type="radio"/> PSTN
Busy Forward:	<input checked="" type="radio"/> Off	<input type="radio"/> IP	
No Answer Forward:	<input checked="" type="radio"/> Off	<input type="radio"/> IP	<input type="radio"/> PSTN

	Name	Number or URL
All Fwd No.:	<input type="text" value="angel"/>	<input type="text" value="22067"/>
Busy Fwd No.:	<input type="text"/>	<input type="text"/>
No Answer Fwd No.:	<input type="text"/>	<input type="text"/>

No Answer Fwd Time Out:	<input type="text" value="5"/> (2~8 Ring)
-------------------------	-------------------------------------------

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective.

When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: When receiving a new call, it will forward to Register Number: 22067, automatically, and Register Account: 22067 rings.

Example 4: Busy forward to IP

Step 1: On the main page, select [Features→CallFwd] and enter [CallFwd] page. After revising all the information (Busy Forward: IP, No Answer Forward: IP, Busy fwd No Name: Mobil, Number or URL: 0912345678, No Answer Fwd No Name: ext, URL: 22068), click [Submit].

Forward Setting

You could set the forward number of your phone in this page.

All Forward:	<input checked="" type="radio"/> Off	<input type="radio"/> IP	<input type="radio"/> PSTN
Busy Forward:	<input type="radio"/> Off	<input checked="" type="radio"/> IP	
No Answer Forward:	<input type="radio"/> Off	<input checked="" type="radio"/> IP	<input type="radio"/> PSTN

	Name	Number or URL
All Fwd No.:	<input type="text"/>	<input type="text"/>
Busy Fwd No.:	<input type="text" value="Mobil"/>	<input type="text" value="0912345678"/>
No Answer Fwd No.:	<input type="text" value="ext"/>	<input type="text" value="22068"/>

No Answer Fwd Time Out:	<input type="text" value="5"/> (2~8 Ring)
-------------------------	-------------------------------------------

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective. When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: When the line is busy, it will forward to [0912345678], and Mobile [0912345678] rings.

Step 5: When it rings 3 time, and nobody answers the phone, it will forward to [Register Number: 22068], and Register Account: 22068 rings.

Example 5: All incoming calls will be forwarded to PSTN

Step 1: On the main page, select [Features→CallFwd] and enter [CallFwd] page. After revising all the information (All Forward: PSTN, All fwd No Name: angel, Number or URL: 0912345678), click [Submit].

Forward Setting

You could set the forward number of your phone in this page.

All Forward:	<input type="radio"/> Off	<input type="radio"/> IP	<input checked="" type="radio"/> PSTN
Busy Forward:	<input checked="" type="radio"/> Off	<input type="radio"/> IP	
No Answer Forward:	<input checked="" type="radio"/> Off	<input type="radio"/> IP	<input type="radio"/> PSTN

	Name	Number or URL
All Fwd No.:	<input type="text" value="angel"/>	<input type="text" value="0912345678"/>
Busy Fwd No.:	<input type="text"/>	<input type="text"/>
No Answer Fwd No.:	<input type="text"/>	<input type="text"/>

No Answer Fwd Time Out:	<input type="text" value="5"/> (2~8 Ring)
-------------------------	-------------------------------------------

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective.

When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: When receiving a new call, it will run by PSTN Port automatically, and call Mobile [0912345678]

8.2 Volume Setting

8.2.1 Function

Volume setting controls the volume of the mic, speaker and FXO.

8.2.2 Instructions

Volume Setting (VoIP Gateway Only)

Volume Setting

You could set the volume of your phone in this page.

Handset Volume:	<input type="text" value="8"/>	(0~14)
Speaker Volume:	<input type="text" value="9"/>	(0~14)
Ringer Volume:	<input type="text" value="6"/>	(0~10)
PSTN-Out Volume:	<input type="text" value="10"/>	(0~14)
Handset Gain:	<input type="text" value="1"/>	(0~14)
Speaker Gain:	<input type="text" value="6"/>	(0~14)
PSTN-In Gain:	<input type="text" value="8"/>	(0~14)

Handset Volume	Default 8. Control the volume of the Handset from 0 to 14. Maximum length is 2 bytes.
Speaker Volume	Default 9. Control the volume of the speaker from 0 to 14. Maximum length is 2 bytes.
Ringer Volume	Default 6. Control the volume of the ringer from 0 to 10. Maximum length is 2 bytes.
PSTN-Out Volume	Default 10. Control the volume of PSTN-Out from 0 to 14. Maximum length is 2 bytes.
Handset Gain	Default 1. Control the handset gain from 0 to 14. Maximum length is 2 bytes.
Speaker Gain	Default 6. Control the speaker gain from 0 to 14. Maximum length is 2 bytes.
PSTN-In Gain	Default 8. Control the PSTN-In gain from 0 to 14. Maximum length is 2 bytes.
Submit [Button]	Save the change.
Reset [Button]	Clear the change.

8.2.3 Operating Instructions

Step 1: On the main page, select [Features→Volume] and enter [Volume] page. After revising all information (e.g. Handset Volume: 9, PSTN-Out Volume: 12, Handset Gain: 9, PSTN-In Gain: 13), click [Submit].

Volume Setting

You could set the volume of your phone in this page.

Handset Volume:	<input type="text" value="9"/>	(0~14)
Speaker Volume:	<input type="text" value="9"/>	(0~14)
Ringer Volume:	<input type="text" value="6"/>	(0~10)
PSTN-Out Volume:	<input type="text" value="12"/>	(0~14)
Handset Gain:	<input type="text" value="9"/>	(0~14)
Speaker Gain:	<input type="text" value="6"/>	(0~14)
PSTN-In Gain:	<input type="text" value="13"/>	(0~14)

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective. When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

8.3 Ringer Setting

8.3.1 Function

Ringer setting provides user with a selection of ringer tones.

8.3.2 Instructions

Ringer Settings

You could set your favorite ringer in this page.

Ringer: On Off

Ringer Type:

Ringer Setting

Default: Off means it is a default ringer tone. There are four ringer tones to choose from.

8.3.3 Operating Instructions

Step 1: On the main page, select [Features→Rngtone] and enter [Rngtone] page. After revising all information (e.g., Ringer: On and Ring Type: ringer 4), click [Submit].

Ringer Settings

You could set your favorite ringer in this page.

Ringer: On Off

Ringer Type:

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective.

When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: The VIP-8030NT now has a new ringer tone.

8.4 DND Setting

8.4.1 Function

DND Setting denies all incoming calls or all incoming calls in a certain time period.

8.4.2 Instructions

DND Setting

You could set the do not disturb period of your phone in this page.

DND Always: On Off

DND Period: On Off

From: : (hh:mm)

To: : (hh:mm)

DND Always	Default: OFF. When setting to ON, all incoming calls will be denied.
DNS Period	Default: OFF. When setting to ON, all incoming calls will be denied in pre-setting time period.
From	Default: 00:00 (hh:mm), please input the time point that begins the command.

	(24h in total, hh:mm). Maximum length is 2 bytes.
To	Default: 00:00(hh:mm), please input the time point that ends the command. (24h in total, hh:mm). Maximum length is 2 bytes.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

8.4.3 Operating Instructions

Example 1: Start the function that denies all incoming calls in a certain time period.

Step 1: On the main page, select [Features→DND] and enter [DND] page. After revising all information (e.g., DND period: on, from 18:00 to 23:00), press [Submit].

DND Setting

You could set the do not disturb period of your phone in this page.

DND Always: On Off

DND Period: On Off

From: : (hh:mm)

To: : (hh:mm)

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective. When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: When receiving a new call during DND time period, the “busy tone” will be heard.

Example 2: The function that deniers all incoming calls

Step 1: On the main page, select [Features→DND] and enter the [DND] page. After revising information (DND Always: on), click [Submit].

DND Setting

You could set the do not disturb period of your phone in this page.

DND Always: On Off

DND Period: On Off

From: : (hh:mm)

To: : (hh:mm)

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective. When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: When receiving a new call, the “busy tone” will be heard.

8.5 Flash Time Setting

8.5.1 Function

Flash Time Setting means transferring a call or hanging up the phone.

8.5.2 Instructions

Flash Time Setting

You could set the flash time in this page.

Generate Flash Signal: x 10 ms (9~120)

Generate Flash Signal	Default 10. Flash signal that is <(less than) 100ms will be regarded as transfer; flash signal that is > (more than) 100ms will be regarded as On-Hook. From (9~120), Unit: 10MS. Maximum length is 3 bytes.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

8.5.3 Operating Instructions

Step 1: On the main page, select [Features→Flash Timing] and enter the [Flash Timing] page. After revising information (e.g., Generate Flash Signal: 70), click [Submit].

Flash Time Setting

You could set the flash time in this page.

Generate Flash Signal: x 10 ms (9~120)

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective. When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

8.6 Call Waiting Setting

8.6.1 Function

Call Waiting Setting provides call waiting function.

8.6.2 Instructions

Call Waiting Setting

You could enable/disable the call waiting setting in this page.

Call Waiting: On Off

Call Waiting	Default: ON. When setting to OFF, call waiting function will be off.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

8.6.3 Operating Instructions

Example 1: Close call waiting function

Step 1: On the main page, select [Features→ CallWaiting] and enter the [CallWaiting] page. After revising information (e.g., Call Waiting: off), click [Submit].

Call Waiting Setting

You could enable/disable the call waiting setting in this page.

Call Waiting: On Off

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective.

When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: When there is a new incoming call during calling, the busy tone will be heard.

Example 2: Start the call waiting function

Step 1: On the main page, select [Features→ CallWaiting] and enter the [CallWaiting] page. After revising information (e.g., Call Waiting: off), click [Submit].

Call Waiting Setting

You could enable/disable the call waiting setting in this page.

Call Waiting: On Off

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective.

When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: While Party A is talking with Party B, Party C calls Party A; so Party A will hear the reminding tone. If Party A would like to answer Party C’s call, Party A needs to press the key [Hold] or [Flash] (Party B’s call is now on hold.). If Party A would like to talk with Party B again, Party A needs to press the key [Hold] or [Flash]. Party C’s call is now on hold.

8.7 SoftKey Setting (for Phone)

8.7.1 Function

SoftKey Setting provides pick-up key and voice mail key for the phone.

The phone and SIP proxy server are required to have those functions.

8.7.2 Instructions


Soft-Key Setting (VoIP Phone Only)

Soft-key Setting

You could configure the soft-key setting in this page.

Pick up key:	
Voice mail key:	
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

Pick Up Key	<p>Input the name of the pick up key; can be numerals or signs. Maximum length is 15 bytes.</p> <div style="border: 1px solid #ccc; padding: 5px; display: flex; align-items: center;"> <p>The phone is required to have the related keys.</p> </div>
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Voice Mail Key	Input the name of the voice mail key; can be numerals or signs. Maximum length is 15 bytes.
	 The phone is required to have the related keys.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

8.7.3 Operating Instructions

Step 1: On the main page, select [Features→SoftKey] and enter the [SoftKey] page. After revising information (e.g., Pick Up Key: *95, Voice Mail Key: *98), click [Submit].

Soft-key Setting

You could configure the soft-key setting in this page.

Pick up key:	<input style="width: 90%;" type="text" value="*95"/>
Voice mail key:	<input style="width: 90%;" type="text" value="*97"/>

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective. When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: When listening to the voice mail, please press [Voice Mail]. When picking up the phone, please press [Pick UP].

8.8 Hotline Setting

8.8.1 Function

Hotline Setting allows dialing a pre-set number automatically.

8.8.2 Instructions

Hotline Setting

Hot line Setting


You could set the hot line in this page.

Use hot line: Enable Disable

Hot line Number:

Submit

Reset

Hotline Use	Default: Enable. When setting to Enable, the pre-set phone number that the user wants to call will dial automatically.
Hotline Number	Input hotline number; can be Phone Numbers. Maximum length is 63 bytes. For example, Phone Number: 0800024365.
	 This function is only for PSTN.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

8.8.3 Operating Instructions

Example 1: Register Account or Input Hotline Number.

Step 1: On the main page, select [Features→Hotline] and enter the [Hotline] page. After revising information (e.g., User Hotline: Enable, Hotline number: 22062), click [Submit].

Hot line Setting

You could set the hot line in this page.

Use hot line: Enable Disable

Hot line Number:

22062

Submit

Reset

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective.

When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: After rebooting the system, it will dial [22062] automatically when picking up the phone.

Example 2: Dial to another IP Address directly.

Step 1: On the main page, select [Features→Hotline] and enter the [Hotline] page. After revising information (e.g., User Hotline: Enable, Hotline number: 192.168.1.206), click [Submit].

Hot line Setting

You could set the hot line in this page.

Use hot line: Enable Disable

Hot line Number:

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective. When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: After rebooting the system, it will dial to IP Address [192.168.1.206] automatically.

8.9 Alarm Setting

8.9.1 Function

Alarm Setting provides the alarm function.

8.9.2 Instructions

Alarm Settings


You could set the alarm time in this page.

Alarm: ON OFF

Alarm Time: : (hh:mm)

Current time: 2014-11-27 16:30

Alarm	Default: OFF. When setting to ON, alarm function will execute. Duration is 1 minute. Stop the alarm by picking up the handset.
Alarm Time	Default: 0:0. (0 hour: 0 Minute). Time format: 24 Hours (hh:mm)
Current Time	Show current time. Format 2014-11-27 16:30

	 To show correct time, it needs to connect to internet and fill in the valid DNS server.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

8.9.3 Operating Instruction

Step 1: On the main page, select [Features→Alarm] and enter the [Alarm] page. After revising information (e.g., Alarm: On, Alarm Time: 12:59), click [Submit].

Alarm Settings

You could set the alarm time in this page.

Alarm: ON OFF

Alarm Time: : (hh:mm)

Current time: 2014-11-27 16:30

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective. When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: At 12:59, the alarm will go off, lasting for 1 minute. After 1 minute, the alarm will stop. During ringing, just pick up the phone and the alarm will stop automatically.

Chapter 9. Update

It provides New Firmware, Auto Update, and Default Setting items.

9.1 Firmware

9.1.1 Function

Update Firmware. Use Local PC or TFTP to update. Format: Risc (.gz) & DSP (.ds)

9.1.2 Instructions

Update System

Update System

You could update your system in this page.

Update Type:

File Location:

Method	Default: Local PC
Local PC	Update by Local PC
Code Type	Default: All ROMs (.rom).
File Location	Please input File Location. Can be numerals or characters. Maximum length: 30 bytes.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

9.1.3 Operating Instructions

Example 1: Update by Local PC

Step 1: On the main page, select [Update→Firmware] and enter the [Firmware] page. After revising the information (e.g., Code Type: All ROMs), and setting File Location information, click [Browse].

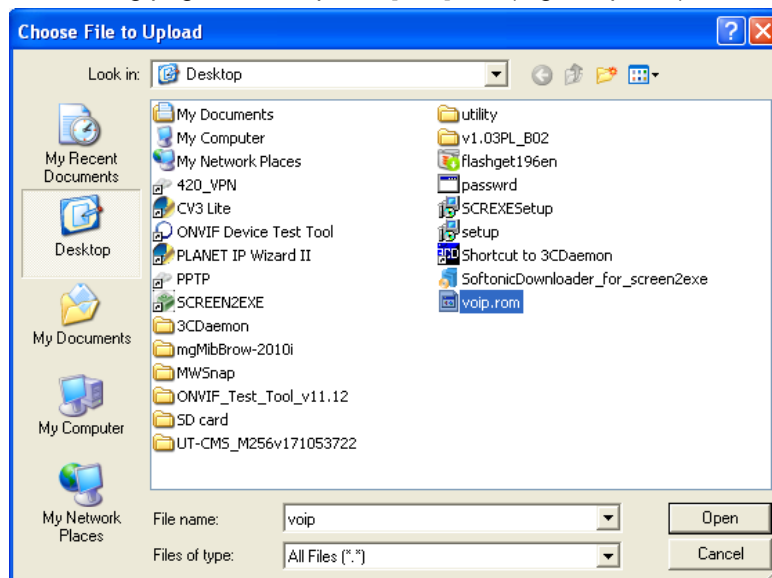
Update System

You could update your system in this page.

Update Type:

File Location:

Step 2: Enter the following page, select update [rom] file, (e.g., voip.rom) and click [Open].



Step 3: Back to the page [Update Firmware]. Make sure the update file is on [File Location] and click [Update].

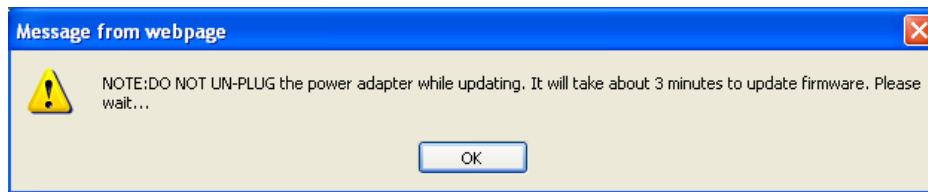
Update System

You could update your system in this page.

Update Type:

File Location:

Step 4: When the dialog appears, click [Submit].



Step 5: After updating, system will automatically reboot.

Step 6: After rebooting and when it goes back to the main page, press [(F5)] to view the result on this page [System Information].

System Information

This page illustrate the system related information.

Model Name:	VIP-8030NT
Firmware Version:	Tue Nov 18 11:53:13 2014 (1003116)
Codec Version:	Mon Mar 25 15:19:23 2013 (1303250)

9.2 Auto Update

9.2.1 Function

Auto Update Setting provides **.gz(RISC)** or **.ds(DSP)** format, the **.rom** is not available.

9.2.2 Instructions


Auto Update Settings

You could set auto update settings in this page.

Update via: Off TFTP FTP HTTP

TFTP Server:	<input type="text"/>	
TFTP File Path:	<input type="text"/>	Exp. download
HTTP Server:	<input type="text"/>	Exp. 60.35.187.30
HTTP File Path:	<input type="text"/>	Exp. download
FTP Server:	<input type="text"/>	Exp. 60.35.17.1
FTP Username:	<input type="text"/>	
FTP Password:	<input type="text"/>	
FTP File Path:	<input type="text"/>	Exp. file/load
Check new firmware:	<input type="radio"/> Power ON and Scheduling <input checked="" type="radio"/> Scheduling only	
Scheduling (Date):	<input type="text" value="14"/>	(1~30 days)
Scheduling (Time):	<input type="text" value="AM 00:00- 05:59"/>	
Scheduling (Time):	<input type="text" value="AM 00:00- 05:59"/>	
Automatic Update:	<input checked="" type="radio"/> Notify only <input type="radio"/> Automatic	
Firmware File Prefix:	<input type="text" value="PHONEO"/>	
Next update time:	<input type="text"/>	

Update via	Default: Off. Off, TFTP, FTP or HTTP modes are available.
TFTP Server	Input TFTP Server Address; can be IP Address or Domain Name, format: xxx.xxx.xxx.xxx; maximum length: 63 bytes.
HTTP Server	Input HTTP Server Address; can be IP Address or Domain Name, format: xxx.xxx.xxx.xxx; maximum length: 63 bytes.
HTTP File Path	Input HTTP File Path; can be numerals or characters; maximum length: 63 bytes. For example, /123/.
FTP Server	Input FTP Server Address; can be IP Address or Domain Name, format: xxx.xxx.xxx.xxx; maximum length: 63 bytes.
FTP Username	Input FTP username; can be numerals or characters; maximum length: 63 bytes.
FTP Password	Input FTP Password; can be numerals or characters; maximum length: 63 bytes.
FTP File Path	Input FTP File Path; can be numerals or characters; maximum length: 63 bytes. For example, /123/.
Check New	Default: Scheduling. Provides Power ON, Scheduling mode.

Firmware	 Power on + Scheduling means as long as the system starts to boot, it will check if there is any update version or not. According to the schedule, if yes, it will not update now, but will update with your permission.
Scheduling (Date)	According to the date, it will check if there is any update version or not. Default: 14 days. Minimum: 1 day. Maximum: 30 days. Only numerals are accepted, length: 2 bytes.
Scheduling (Time)	Default: AM 00:00 – 05:59 ; AM 00:00 – 05:59, AM 06:00 – 11:59, AM 12:00 – 17:59, AM 18:00 – 23:59 is available.
Automatic Update	Default: Notify only. Notify only and Automatic are available. - Notify only: the message will be found on LCD, and when the phone is picked up, “Do Do Do” will be heard. - Automatic: Update automatically.
Firmware File Prefix	Default: Product model. Can be numerals or characters; maximum: 8 bytes.
Next Update Time	Next update time begins with the next day, not today. Formula: the next day + days + time zone + MAC Address + Random = Next update time.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

Remarks:

Check new firmware: Power on



As long as the system starts to boot, it will check if there is any update version or not. According to the schedule, if yes, it will not update now, but will update with your permission.

➤ **(Phone)**

[Found new s/w] will be found on LCD, please select **[Menu] -- [7. Administrator→2. Upgrade System→1. Upgrade Now→ 1. Yes]** and then update.

➤ **(FXS/FXO)**

When the phone is picked up, DoDoDo will be heard. Please input “**#190#**” and then hang up the phone, pick up the phone again, and input “**#190#**” to execute update.



It takes 2~3 minutes to update. During this period, dialing function cannot work. It is not the problem of the power supply.

9.2.3 Operating Instructions

Example 1: Auto Update. (Please build Auto Update file.)

Step 1: On the main page, select [Update→ Auto Update] and enter the [Auto Update] page. After setting HTTP Server information and revising the information (e.g., Update via: HTTP, HTTP Server: 61.62.236.70, HTTP File Path: /update/, Check new firmware: Scheduling, Scheduling (Date): 14, Scheduling (Time): AM 00:00-05:59, Automatic Update: Automatic, Firmware File Prefix: TA1S), click

[Submit] and save change.

Auto Update Settings

You could set auto update settings in this page.

Update via: Off TFTP FTP HTTP

TFTP Server:	<input type="text"/>	
TFTP File Path:	<input type="text"/>	Exp. download
HTTP Server:	<input type="text" value="61.61.236.70"/>	Exp. 60.35.187.30
HTTP File Path:	<input type="text" value="/update/"/>	Exp. download
FTP Server:	<input type="text"/>	Exp. 60.35.17.1
FTP Username:	<input type="text"/>	
FTP Password:	<input type="text"/>	
FTP File Path:	<input type="text"/>	Exp. file/load
Check new firmware:	<input type="radio"/> Power ON and Scheduling <input checked="" type="radio"/> Scheduling only	
Firmware File Prefix:	<input type="text" value="TA1S"/>	
Next update time:	<input type="text"/>	

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective.

When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: After rebooting and when it goes back to the main page, press [F5] to refresh, select [Update → Auto Update] and enter [Auto Update Settings] to get next update time. E.g.: [Next Update time: 2014-12-03 04:45].

Step 5: When [Next Update Time] comes, it will connect to HTTP Server to check if there is update or not, if yes, update will be made automatically.

Example 2: Update with permission (Please build Auto Update file first)

Step 1: On the main page, select [Update → Auto Update] and enter the [Auto Update] page. After setting FTP Server information and revising the information (e.g., Update via: FTP, FTP Server: 61.62.236.70, FTP Username: cmi, FTP Password: cmi, FTP File Path: /update/, Check new firmware: Power, Scheduling (Date): 30, Scheduling (Time): AM 00:00-05:59, Automatic Update: Notify only, Firmware File Prefix:TA1S) click [Submit] and save change.

Auto Update Settings

You could set auto update settings in this page.

Update via: Off TFTP FTP HTTP

TFTP Server:	<input type="text"/>	
TFTP File Path:	<input type="text"/>	Exp. download
HTTP Server:	<input type="text"/>	Exp. 60.35.187.30
HTTP File Path:	<input type="text"/>	Exp. download
FTP Server:	<input type="text" value="61.61.236.70"/>	Exp. 60.35.17.1
FTP Username:	<input type="text" value="cmi"/>	
FTP Password:	<input type="password" value="●●●"/>	
FTP File Path:	<input type="text" value="/update/"/>	Exp. file/load

Check new firmware: Power ON and Scheduling Scheduling only

Scheduling (Date): (1~30 days)

Scheduling (Time):

Automatic Update: Notify only Automatic

Firmware File Prefix:

Next update time:

Step 2: After saving the change, a “dialog box” will appear, meaning the change has taken effect.

Step 3: On the main page, press the “save” button on the upper right corner to make the change effective.

When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Step 4: After rebooting and when it goes back to the main page, press [F5] to refresh, select [Update → Auto Update], and enter [Auto Update Settings].

Step 5: When [Next Update Time] comes, it will connect to FTP Server to check if there is update or not; if yes, a message will be sent.

9.2.4 Remarks

➤ **(Phone)**

[Found new s/w] will be found on LCD, please select [Menu] -- [7. Administrator→2. Upgrade System→1. Upgrade Now→1. Yes] and then update.

➤ **(FXO)**

When the phone is picked up, DoDoDo will be heard. Please input “#190#” and then hang up the phone, pick up the phone again, and input “#190#” to execute update.



It takes 2~3 min to update. During this period, dialing function cannot work so it is not the problem of the power supply.

9.3 Default Setting

9.3.1 Function

Default Setting restores all changing information (excluding Phone and Speed Dial). After restoring default setting, the system will reboot.

9.3.2 Instructions

Restore Default Settings

You could click the restore button to restore the factory settings.

Restore default settings:

Restore [Button]	Restore the factory settings.
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9.3.3 Operating Instructions

Step 1: On the main page, select [Update→Default Setting], enter the [Default Setting] page and click [Restore]. The system will reboot.

Restore Default Settings

You could click the restore button to restore the factory settings.

Restore default settings:

Step 2: Enter the dialog box page and please wait for a moment while rebooting.

Note Information

This page inform user important information.

Configure OK.

Please wait for a moment while rebooting ...

Step 3: After rebooting and when it goes back to the main page, press [(F5)] to refresh.

Chapter 10. Save Change

10.1 Function

After saving changes, the system will reboot.

10.2 Instructions

Save Changes

You have to save changes to effect them.

Save Changes:

Save [Button]	Submit the change.
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10.3 Operating Instructions

Step 1: Select [Save] and enter the [Save] page. To execute the command, click [Save].

Save Changes

You have to save changes to effect them.

Save Changes:

Step 2: When the “dialog box” appears, the change has been saved successfully. And please wait for a second while the system reboots.

Note Information

This page inform user important information.

Configure OK.

System will reboot automatically to effect those changes and please wait for a moment while rebooting....

Step 3: After rebooting, please press [(F5)] to continue other settings.

Chapter 11. Reboot System

11.1 Function

Press the reboot button to restart the system.

11.2 Instructions

Reboot System

You could press the reboot button to restart the system.

Reboot system:

Reboot [Button]	Execute.
-----------------	----------

11.3 Operating Instructions

Step 1: On the main page, select [Reboot], enter [Reboot] page, and then click [Reboot].

Reboot System

You could press the reboot button to restart the system.

Reboot system:

Step 2: Enter the [dialog box] page, please wait for a moment while rebooting, and please don't move the power supply.

Note Information

This page inform user important information.

Configure OK.

Please wait for a moment while rebooting ...

Step 3: After rebooting and when it goes back to the main page, press [(F5)] to refresh.

Chapter 12. Phone Transfer Rule

12.1 IP mode Transfer Rule

12.1.1 Blind Transfer

A and B are talking. If A wants to transfer the call to C, A should press [Hold] to hold B's call, and then press [Transfer/Flash], input C's number, and end with "#". The call is now transferred to C.

12.1.2 Attendant Transfer

A and B are talking. If A wants to transfer the call to C, A should press [Transfer/Flash], and input C's number, end with "#", and then C's phone rings. If A hangs up the phone, B can talk with C.

Chapter 13. Gateway/TA Transfer Rule

13.1 IP mode Transfer Rule

13.1.1 Blind Transfer

A and B are talking. If A wants to transfer the call to C, A should press [Hold] to hold B's call, and then press #510# and C's number, and end with "#" to transfer the call to C.

13.1.2 Attendant Transfer

A and B are talking. If A wants to transfer the call to C, A should press [Hold] to hold B's call, and then press #511# and input C's number, and end with "#"; then C's phone rings. If A hangs up the phone, B can talk with C.

13.1.3 3-way calling

A and B are talking. If A wants C to join the conversation, A should hold B's call and then press #512# and C's number, and end with "#"; then C's phone rings. If A wants to talk with C, A should press "flash" to have the 3-way call (A, B and C can now talk together.).

13.1.4 Call Waiting

While A and B are talking, C calls A. A can hear the inset tone; A could press [Hold] to hold B, and talk with C.

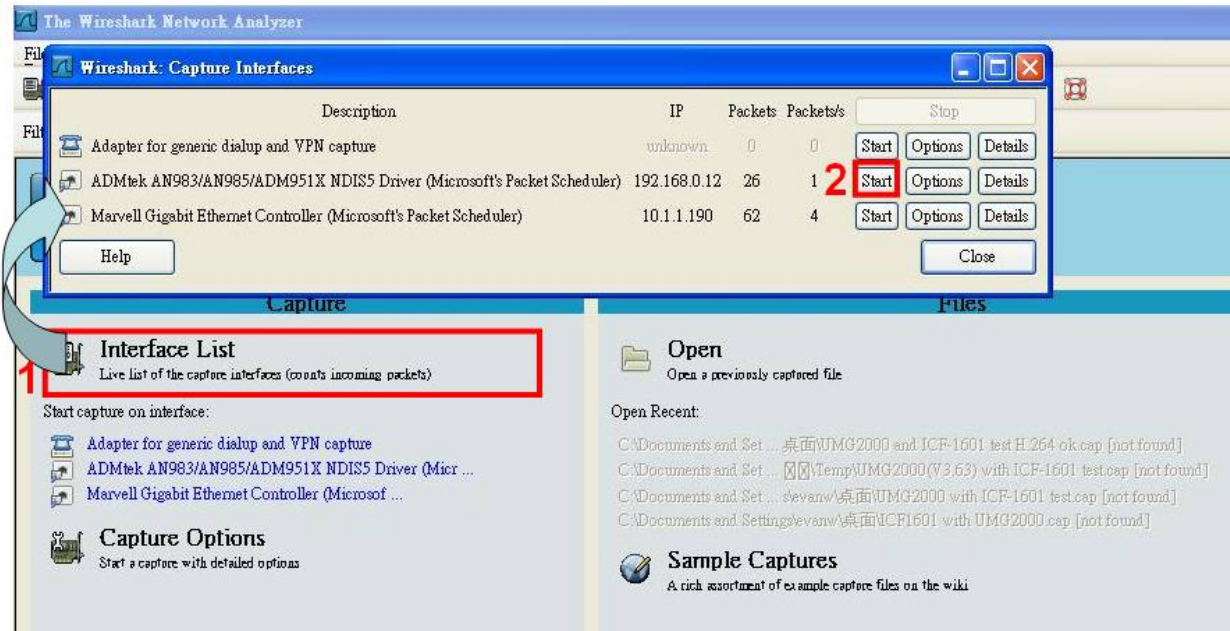
Chapter 14. Appendix

1. Ethereal has been renamed to Wireshark. Please visit the link below to download this software.

<https://www.wireshark.org/download.html>

2. After install Wireshark complete, open the Wireshark, and press the **"Interface List (1)"**.

Select your **"Ethernet Card"** and press the **"Start"** to capture the packet.



You can filter the SIP packet from this packet we can check detail information about this issue.

