# ATA-171/172/ 171P/171M/ 171+/172+ User's Guide

V2.1

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#### 1. Introduction

This user's manual is for 1-port FXS and 1-port FXO (FXO only supported in ATA171M) VoIP terminal adapter (ATA). This user's manual will explain the IVR instruction, web configuration, and command line configuration for the ATA. Before using the ATA, some setup processes are required to make the ATA work properly. Please refer to the Setup Menu for further information.

#### **Chapter 1.1 Hardware Overview**

The ATA has the following interfaces for Networking, telephone interface, LED indication, and power connector.

- 1.1.1 Two RJ-45 Networking interface, these two interfaces support 10/100Mps Fast Ethernet. you can connect one RJ-45 Fast Ethernet port to the ADSL or Switch, and connect the other one to your computer.
- 1.2.1 One RJ-11 Type analog telephone jack and line interfaces. You can connect one analog telephone to the terminal adapter or one PSTN line.
- 1.3.1 LED Indication: There are three LED indicators in the ATA to show the Power, Register, and Off-Hook indication.

Network Protocol	Tone	
<ul> <li>SIP v1 (RFC2543), v2 (RFC3261)</li> <li>IP/TCP/UDP/RTP/RTCP</li> <li>IP/ICMP/ARP/RARP/SNTP</li> <li>TFTP Client/DHCP Client/ PPPoE Client</li> <li>Telnet/HTTP Server</li> <li>DNS Client</li> <li>NAT/DHCP Server</li> </ul>	Ring Tone     Ring Back Tone     Dial Tone     Busy Tone     Programming Tone  Phone Function	
Codec           • G.711: 64k bit/s (PCM)           • G.726: 16k / 24k / 32k / 40k bit/s (ADPCM)           • G.729A: 8k bit/s (CS-ACELP)           • G.729B: adds VAD & CNG to G.729	Volume Adjustment     Speed dial key     Phone book     Flash  IP Assignment      Static IP     DHCP	
Voice Quality	• PPPoE	
<ul> <li>VAD: Voice activity detection</li> <li>CNG: Comfortable noise generator</li> <li>LEC: Line echo canceller</li> <li>Packet Loss Compensation</li> <li>Adaptive Jitter Buffer</li> </ul>	<ul> <li>Security</li> <li>HTTP 1.1 basic/digest authentication for Web setup</li> <li>MD5 for SIP authentication (RFC2069/ RFC 2617)</li> <li>QoS</li> </ul>	
Call Function	ToS field	
<ul> <li>Call Hold</li> <li>Call Waiting</li> <li>Call Forward</li> <li>Caller ID</li> <li>3-way conference</li> </ul>	NAT Traversal       • STUN       Configuration	
DTMF Function         • In-Band DTMF         • Out-of Band DTMF         • SIP Info	Web Browser     Console/Telnet     IVR/Keypad	
SIP Server		
<ul> <li>Registrar Server (three SIP account)</li> <li>Outbound Proxy</li> </ul>	<ul><li>TFTP</li><li>Console</li><li>HTTP</li></ul>	

#### Chapter 2.1 Software Overview

#### Keypad Interface for The ATA

You can use the PSTN phone keypad to operate the ATA. Please follow the instruction to configure your terminal adapter.

Group	IVR Action	IVR Menu Choice	Parameter(s)	Notes:
Function	Dial out from PSTN Line	0*	None	Press 0* can pass call to PSTN Line, user can dial out from PSTN Line. (For 171P and 171M)
Function	Unlock keypad setting	#190#	None	After you unlock keypad setting, then you may configure the ATA.
Function	Reboot	#195#	None	After you hear "Option Successful," hang-up. The system will reboot automatically.
Function	Factory Reset	#198#	None	System will automatically reboot. WARNING: ALL "User-Changeable" NONDEFAULT SETTINGS WILL BE LOST! This will include network and service provider data.
Function	Enable PPTP client	#116#	None	System will automatically reboot and PPTP client will be enabled
Function	Disable PPTP client	#117#	None	System will automatically reboot and PPTP client wll be disabled
Function	Enable VLAN	#118#	None	System will automatically reboot and VLAN will be enabled.
Function	Disable VLAN	#119#	None	System will automatically reboot and VLAN will be disabled
Function	Enable Call Waiting	#138#	None	System will automatically reboot and Call Waiting will be enabled.
Function	Disable Call Waiting	#139#	None	System will automatically reboot and Call Waiting will be disabled.
Function	Enable Anonymous	#140#	None	System will automatically reboot and Send Anonymous CID will be enabled.
Function	Disable Anonymous	#141#	None	System will automatically reboot and Send Anonymous CID will be disabled.
Function	Blind Transfer	#510#	None	Can only be performed in a phone call conversation. For 171M, this will transfer the current IP line to another IP line.
Function	Attendant Transfer	#511#	None	Can only be performed in a phone call conversation. For 171M, this will transfer the line to IP from PSTN (must be in IP mode to execute this command)
Function	3-way calling (IP Conference)	#512#	None	Can only be performed in a phone call conversation.
Function	Attendant Transfer	#514#	None	Can only be performed in a phone call conversation. For 171M, this will transfer the line to PSTN from IP (must be in PSTN mode to execute this command)
Info	Check WAN IP Address	#126#	None	IVR will announce the current WAN IP address of the ATA
Info	Check LAN IP Address	#120#	None	IVR will announce the current LAN IP address of the ATA
Info	Check IP Type	#121#	None	IVR will announce if DHCP in enabled or disabled.
Info	Check the Phone Number	#122#	None	IVR will announce current in use VoIP number
Info	Check Network	#123#	None	IVR will announce the current network

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	Mask			mask of the ATA.
Info	Check Gateway IP Address	#124#	None	IVR will announce the current gateway IP address of the ATA.
Info	Check Primary DNS Server Setting	#125#	None	IVR will announce the current setting in the Primary DNS field.
Info	Check Firmware Version	#128#	None	IVR will announce the version of the firmware running on the ATA.
Setting	Set DHCP client	#111#	None	The system will change to DHCP Client type
Setting	Set Static IP Address	#112xxx*xxx*xxx*xxx#	Enter IP address using numbers on the telephone keypad. Use the * (star) key when entering a decimal point.	DHCP will be disabled and system will change to the Static IP type.
Setting	Set Network Mask	#113xxx*xxx*xxx*xxx#	Enter value-using numbers on the telephone keypad. Use the * (star) key when entering a decimal point.	Must set Static IP first.
Setting	Set Gateway IP Address	#114xxx*xxx*xxx*xxx#	Enter IP address using numbers on the telephone keypad. Use the * (star) key when entering a decimal point.	Must set Static IP first.
Setting	Set Primary DNS Server	#115xxx*xxx*xxx*xxx#	Enter IP address using numbers on the telephone keypad. Use the * (star) key when entering a decimal point.	Must set Static IP first.
Setting	Set Codec	#130+[1-8]#	1:G.711 u-Law, 2: G.711 a-Law, 4: G.729a, 5: G.726 16K, 6: G.726 24K, 7: G.726 32K, 8: G.726 40K,	You can set the codec you want to the first priority.
Setting	Set Handset Gain	#131+[00~15]#	Handset Gain from 0~15	You can set the Handset gain to proper value, default is 6
Setting	Set Handset Volume	#132+[00~12]#	Handset Volume from 0~12	You can set the Handset volume to proper value, default is 10
Setting	Set Auto Configuration Mode	#137X#	Select the auto configuration mode, in the X field, you can press the following; 0:OFF 1:TFTP 2:FTP	You can set the auto configuration method you want, default is off
Setting	Set Auto Configuration For TFTP Server	#135xxx*xxx*xxx*xxx#	Enter IP address using numbers on the telephone keypad. Use the * (star) key when entering a decimal point.	Must set auto configuration method to TFTP first
Setting	Set Auto Configuration For FTP Server	#136xxx*xxx*xxx*xx#	Enter IP address using numbers on the telephone keypad. Use the * (star) key when entering a decimal point.	Must set auto configuration method to FTP first

#### Chapter 3.1 Instruction of the Web Environment

#### 3.1.1 Pre-settings

#### 3.1.1 Network settings

Network Mode: Default NAT Mode WAN Port: DHCP Client Mode LAN Port: DHCP Server, IP Address: 192.168.123.1

#### 3.1.2 Web Page

VoIP Web Login page, http://192.168.123.1:9999

- Login Account:
  - Administrator's Right: Login Account: root, Password: test
  - Super use's Right: Login Account: system, Password: test
  - Normal Right: Login Account: user, Password: test

#### 3.2.1 Login Vol P Web Page

Connect PC network line to LAN port, and set PC to auto receive IP mode (DHCP); default the IP address as of 192.168.123.150.

#### 3.2.1 Function

Provide login system management page.

#### 3.2.2 Instruction

	Login VolP
	Enter your username and password to login VoIP server Username Password Login Clear
Username	Input user's name, can be numeral or le
Password	Input password, can be numeral or lette
Login [Button]	Login the system
Clear [Button]	Clear all information.

#### 3.2.3 Operate instruction

Step 1: Open IE, input [http://192.168.123.1:9999], and then enter.

Step 2: Login [Login VoIP] page, please input [Username & Password (e.g. Username: root,

Password: test)], then press [Login]. Make sure that the Password is OK (See Figure 1).

.ogin VolP	
Enter your use	rname and password to login
	VoIP server
Usemame	
Password	
	Login Clear



Step 3: After login the system, the System Information will be seen (See Figure 2).

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	This page illustrate the system related information.		
	Model Name:	VolP	
	Firmware Version:	Tue Jan 2 10:10:21 2007	
00K	Codec Version:	Wed Dec 20 17:32:51 2006.	
etting 🕨			
ings 🔸			
ns.			
Auth.			
ange			

(Figure 2)

#### 3.3.1 VoIP Setting Page

#### 3.3.1 Function

Provide Phone Book, Phone Setting, Network Setting, SIP Setting, NAT, Other Settings, System Auth, Save, Reboot, Update, and Reboot.

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VOIP	System Information This page illustrate the system related information.
Phone Book	Model Name:         VolP           Firmware Version:         Tue Jan 2 10:10:21 2007           Codec Version:         Wed Dec 20 17:32:51 2006.
Phone Setting	
Network	
SIP Settings	
NAT Trans.	
Others	
System Auth.	
Save Change	
Update	
Reboot	
A Building menu	
Phone Book	Phone Book item, provides Phone Book & Speed Dial(for Pho
Phone Book	Phone Book item, provides Phone Book & Speed Dial(for Pho
Phone Book Phone Setting	Phone Book item, provides Phone Book & Speed Dial(for Phone [1] Phone Setting item, provides Forward Setting, SNTP Sett
Phone Book Phone Setting	Phone Book item, provides Phone Book & Speed Dial(for Phone [1]) Phone Setting item, provides Forward Setting, SNTP Sett Volume Setting, DND Setting, Caller ID Setting[2], Auto Answer
Phone Book Phone Setting	Phone Book item, provides Phone Book & Speed Dial (for Phone [1] Phone Setting item, provides Forward Setting, SNTP Sett Volume Setting, DND Setting, Caller ID Setting [2], Auto Answ [3], Dial Plan Setting, Flash Time Setting [2], Call Wait
Phone Book Phone Setting	Phone Book item, provides Phone Book & Speed Dial(for Phone [1] Phone Setting item, provides Forward Setting, SNTP Sett Volume Setting, DND Setting, Caller ID Setting[2], Auto Answ [3], Dial Plan Setting, Flash Time Setting [2], Call Wait Setting, Soft-Key Setting[1], T.38 Setting (for FXS)[2], Hoth Setting, Alarm Setting
Phone Book Phone Setting	<ul> <li>Phone Book item, provides Phone Book &amp; Speed Dial(for Phone [1]</li> <li>Phone Setting item, provides Forward Setting, SNTP Sett Volume Setting, DND Setting, Caller ID Setting[2], Auto Answ [3], Dial Plan Setting, Flash Time Setting [2], Call Wait Setting, Soft-Key Setting[1], T.38 Setting (for FXS)[2], Hoth Setting, Alarm Setting</li> <li>Network Setting item, provides Network Status, WAN Setting</li> </ul>
Phone Book Phone Setting Network Setting	<ul> <li>Phone Book item, provides Phone Book &amp; Speed Dial (for Phone [1]</li> <li>Phone Setting item, provides Forward Setting, SNTP Sett Volume Setting, DND Setting, Caller ID Setting[2], Auto Answ [3], Dial Plan Setting, Flash Time Setting [2], Call Wait Setting, Soft-Key Setting[1], T.38 Setting (for FXS)[2], Hoth Setting, Alarm Setting</li> <li>Network Setting item, provides Network Status, WAN Setting LAN Setting, DDNS Setting, VLAN Setting, DMZ Setting, Virt</li> </ul>
Phone Book Phone Setting Network Setting	<ul> <li>Phone Book item, provides Phone Book &amp; Speed Dial (for Phone [1]</li> <li>Phone Setting item, provides Forward Setting, SNTP Sett Volume Setting, DND Setting, Caller ID Setting[2], Auto Answ [3], Dial Plan Setting, Flash Time Setting [2], Call Wait Setting, Soft-Key Setting[1], T.38 Setting (for FXS)[2], Hoth Setting, Alarm Setting</li> <li>Network Setting item, provides Network Status, WAN Setti LAN Setting, DDNS Setting, VLAN Setting, DMZ Setting, Virt Server, PPTP Setting.</li> </ul>
Phone Book Phone Setting Network Setting SIP Setting	<ul> <li>Phone Book item, provides Phone Book &amp; Speed Dial(for Phone [1]</li> <li>Phone Setting item, provides Forward Setting, SNTP Sett Volume Setting, DND Setting, Caller ID Setting[2], Auto Answ [3], Dial Plan Setting, Flash Time Setting [2], Call Wait Setting, Soft-Key Setting[1], T.38 Setting (for FXS)[2], Hoth Setting, Alarm Setting</li> <li>Network Setting item, provides Network Status, WAN Setti LAN Setting, DDNS Setting, VLAN Setting, DMZ Setting, Virt Server, PPTP Setting.</li> <li>SIP Setting item, provide Service Domain, Port Settings, Comparison of Compari</li></ul>
Phone Book Phone Setting Network Setting SIP Setting	<ul> <li>Phone Book item, provides Phone Book &amp; Speed Dial (for Phone [1]</li> <li>Phone Setting item, provides Forward Setting, SNTP Sett Volume Setting, DND Setting, Caller ID Setting[2], Auto Answ [3], Dial Plan Setting, Flash Time Setting [2], Call Wait Setting, Soft-Key Setting[1], T.38 Setting (for FXS)[2], Hotl Setting, Alarm Setting</li> <li>Network Setting item, provides Network Status, WAN Setti LAN Setting, DDNS Setting, VLAN Setting, DMZ Setting, Virt Server, PPTP Setting.</li> <li>SIP Setting item, provide Service Domain, Port Settings, Code Settings, Code ID Settings, DTMF Settings, RPort Setting</li> </ul>
Phone Book Phone Setting Network Setting SIP Setting	<ul> <li>Phone Book item, provides Phone Book &amp; Speed Dial (for Phone [1]</li> <li>Phone Setting item, provides Forward Setting, SNTP Sett Volume Setting, DND Setting, Caller ID Setting[2], Auto Answ [3], Dial Plan Setting, Flash Time Setting [2], Call Wait Setting, Soft-Key Setting[1], T.38 Setting (for FXS)[2], Hotl Setting, Alarm Setting</li> <li>Network Setting item, provides Network Status, WAN Setti LAN Setting, DDNS Setting, VLAN Setting, DMZ Setting, Virt Server, PPTP Setting.</li> <li>SIP Setting item, provide Service Domain, Port Settings, Core Settings, Codec ID Settings, DTMF Settings, RPort Setting Other Settings</li> </ul>
Phone Book Phone Setting Network Setting SIP Setting NAT Tran. System Auth	<ul> <li>Phone Book item, provides Phone Book &amp; Speed Dial(for Phone [1]</li> <li>Phone Setting item, provides Forward Setting, SNTP Sett Volume Setting, DND Setting, Caller ID Setting[2], Auto Answ [3], Dial Plan Setting, Flash Time Setting [2], Call Wait Setting, Soft-Key Setting[1], T.38 Setting (for FXS)[2], Hotl Setting, Alarm Setting</li> <li>Network Setting item, provides Network Status, WAN Setting LAN Setting, DDNS Setting, VLAN Setting, DMZ Setting, Virt Server, PPTP Setting.</li> <li>SIP Setting item, provide Service Domain, Port Settings, Code ID Settings, DTMF Settings, RPort Setting Other Settings</li> <li>NAT Tran, provides STUN Settings.</li> </ul>
Phone Book Phone Setting Network Setting SIP Setting NAT Tran. System Auth Other Setting	<ul> <li>Phone Book item, provides Phone Book &amp; Speed Dial (for Phone [1]</li> <li>Phone Setting item, provides Forward Setting, SNTP Sett Volume Setting, DND Setting, Caller ID Setting[2], Auto Answ [3], Dial Plan Setting, Flash Time Setting [2], Call Wait Setting, Soft-Key Setting[1], T.38 Setting (for FXS)[2], Hotl Setting, Alarm Setting</li> <li>Network Setting item, provides Network Status, WAN Setting LAN Setting, DDNS Setting, VLAN Setting, DMZ Setting, Virt Server, PPTP Setting.</li> <li>SIP Setting item, provide Service Domain, Port Settings, Code Settings, Codec ID Settings, DTMF Settings, RPort Setting Other Settings</li> <li>NAT Tran, provides STUN Settings.</li> <li>System Auth item, changes user' s name or password.</li> <li>Other Setting items provide Auto Config. FXS Port/FXO Port/F</li> </ul>
Phone Book Phone Setting Network Setting SIP Setting NAT Tran. System Auth Other Setting	<ul> <li>Phone Book item, provides Phone Book &amp; Speed Dial(for Phone [1]</li> <li>Phone Setting item, provides Forward Setting, SNTP Sett Volume Setting, DND Setting, Caller ID Setting[2], Auto Answ [3], Dial Plan Setting, Flash Time Setting [2], Call Wait Setting, Soft-Key Setting[1], T.38 Setting (for FXS)[2], Hotl Setting, Alarm Setting</li> <li>Network Setting item, provides Network Status, WAN Settin LAN Setting, DDNS Setting, VLAN Setting, DMZ Setting, Virt Server, PPTP Setting.</li> <li>SIP Setting item, provide Service Domain, Port Settings, Code Settings, Codec ID Settings, DTMF Settings, RPort Setting Other Settings</li> <li>NAT Tran, provides STUN Settings.</li> <li>System Auth item, changes user' s name or password.</li> <li>Other Setting items provide Auto Config, FXS Port/FXO Port/F &amp; FXO Port/Phone +FXO Port Setting, MAC Clone Setting, Total Setting, Total Setting, Total Setting, MAC Clone Setting, Total Setting, Total Setting, Total Setting, MAC Clone, Setting, Total Setting, Total Setting, Total Setting, MAC Clone, Setting, Total Setting, Total Setting, Total Setting, MAC Clone, Setting, Total Setting, Total Setting, Total Setting, MAC Setting, Total Setting, Total Setting, Total Setting, MAC Setting, Total Setti</li></ul>
Phone Book Phone Setting Network Setting SIP Setting NAT Tran. System Auth Other Setting	<ul> <li>Phone Book item, provides Phone Book &amp; Speed Dial(for Phone [1]</li> <li>Phone Setting item, provides Forward Setting, SNTP Sett Volume Setting, DND Setting, Caller ID Setting[2], Auto Answ [3], Dial Plan Setting, Flash Time Setting [2], Call Wait Setting, Soft-Key Setting[1], T.38 Setting (for FXS)[2], Hotl Setting, Alarm Setting</li> <li>Network Setting item, provides Network Status, WAN Setti LAN Setting, DDNS Setting, VLAN Setting, DMZ Setting, Virt Server, PPTP Setting.</li> <li>SIP Setting item, provide Service Domain, Port Settings, Codec ID Settings, DTMF Settings, RPort Setting Other Settings</li> <li>NAT Tran, provides STUN Settings.</li> <li>System Auth item, changes user' s name or password.</li> <li>Other Setting items provide Auto Config, FXS Port/FXO Port/F &amp; FXO Port/Phone +FXO Port Setting, MAC Clone Setting, To Setting, Advanced Setting.</li> </ul>
Phone Book Phone Setting Network Setting SIP Setting <u>NAT Tran.</u> System Auth Other Setting Save	<ul> <li>Phone Book item, provides Phone Book &amp; Speed Dial(for Phone [1]</li> <li>Phone Setting item, provides Forward Setting, SNTP Sett Volume Setting, DND Setting, Caller ID Setting[2], Auto Answ [3], Dial Plan Setting, Flash Time Setting [2], Call Wait Setting, Soft-Key Setting[1], T.38 Setting (for FXS)[2], Hotl Setting, Alarm Setting</li> <li>Network Setting item, provides Network Status, WAN Setti LAN Setting, DDNS Setting, VLAN Setting, DMZ Setting, Virt Server, PPTP Setting.</li> <li>SIP Setting item, provide Service Domain, Port Settings, Codec ID Settings, DTMF Settings, RPort Setting Other Settings</li> <li>NAT Tran, provides STUN Settings.</li> <li>System Auth item, changes user' s name or password.</li> <li>Other Setting items provide Auto Config, FXS Port/FXO Port/F &amp; FXO Port/Phone +FXO Port Setting, MAC Clone Setting, To Setting, Advanced Setting.</li> </ul>
Phone Book Phone Setting Network Setting SIP Setting NAT Tran. System Auth Other Setting Save Update	<ul> <li>Phone Book item, provides Phone Book &amp; Speed Dial(for Phon [1]</li> <li>Phone Setting item, provides Forward Setting, SNTP Sett Volume Setting, DND Setting, Caller ID Setting[2], Auto Answ [3], Dial Plan Setting, Flash Time Setting [2], Call Wait Setting, Soft-Key Setting[1], T.38 Setting (for FXS)[2], Hotl Setting, Alarm Setting</li> <li>Network Setting item, provides Network Status, WAN Setti LAN Setting, DDNS Setting, VLAN Setting, DMZ Setting, Virt Server, PPTP Setting.</li> <li>SIP Setting item, provide Service Domain, Port Settings, Co Settings, Codec ID Settings, DTMF Settings, RPort Settin Other Setting</li> <li>NAT Tran, provides STUN Settings.</li> <li>System Auth item, changes user' s name or password.</li> <li>Other Setting items provide Auto Config, FXS Port/FXO Port/F &amp; FXO Port/Phone +FXO Port Setting, MAC Clone Setting, To Setting, Advanced Setting.</li> <li>Save the change.</li> <li>Update items, provides New Firmware, Auto Update, Defa Setting</li> </ul>

[1]: Phone equipment function  ${\scriptstyle \circ}$ 

[2]: FXS equipment function •

[3]: FXO equipment function •

## 3.4.1 System Information

#### 3.4.1 Function

View Model Name, Firmware Version, Codec Version etc.

#### 3.4.2 Instruction

## System Information

This page illustrate the system related information.

VoIP	
Tue Jan 16 11:28:32 2007	
Wed Dec 20 17:28:06 2006.	
	VoIP Tue Jan 16 11:28:32 2007 Wed Dec 20 17:28:06 2006.

Model Name	Show the name of the equipment
Firmware Version	Show the Risc version information, e.g. Tue Jan 16 11:28:32 2007
Codec Version	Show the DSP version information, e.g. Wed Dec 20 17:28:06 2006.

#### Chapter 4.1 Phone Book

Provide Phone Book, Speed Dial function [1].

#### 4.1.1 Phone Book

#### 4.1.1 Function

Phone Book can provide 140 entries. When user A calls person B, if person B's name is in the phone book, then B's name will be shown on the phone. If not, B's phone number will be seen.

#### 4.1.2 Instruction

Figure Phone Book

#### Phone Book

You could add/delete items in current phone book.

Phone Bool	<b>«Page:</b> page 1 📘	*	
Phone	Name	URL	Select
0			
1			
2			
3			
4			
5			
6			
7			
8			
9			

Delete Selected Delete All Reset

Position:	(0~139)
Name:	
URE	

|--|

Please Book Page	Default: Page 1. Select the page, from Page1~Page14.
Phone	Show the serial number. 140 entries in total, from Phone 0~139
Name	Show the User's name.
URL	Show the URL information.
Select	Select this entry.
Delete Selected	Delete selected information.
[Button]	
Delete All	Delete all information.
[Button]	
Reset [Button]	Reset selected information.
Add New Phone	Add new phone book information.
Phone	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 pick up digits, which can be used as speed dialing numbers.
URL	Input Line Number or IP information. Maximum length is 63 bytes.
Add Phone	Add this new entry.
Reset [Button]	Delete selected information.

#### 4.1.3 Operate Instruction

Step 1: On the main page, select [Phone Book→Phone Book], enter [Phone Book] page, revise the information (Phone: 0, Name: 301, URL: <u>301@192.168.1.2</u>), then press the key [Add Phone] (See Figure 1).

#### Phone Book

hono B	nok Page: nage 1 💌	
none De	ook Fage. page i	
Phone	Name URL	Select
U		
1		
2		
3		
4		
5		
6		
7		
8		
9		
Delete .dd New	e Selected Delete All Reset	
osition:	0 (0~139)	
lame:	301	

(Figure 1)

Step 2: After adding the new information (see the table as below), if no information is added, please save change (See Figure 2).

User's Guide

#### Phone Book

You could add/delete items in current phone book.

#### Phone Book Page: 🛛 page 1 🛛 👻

Phone	Name	URL	Select
0	301	192.168.1.2	
1			
2			
3			
4			
5			
6			
7			
8			
9			
Delete :	Selected	Delete All Reset	

Position:	(0~139)
Name:	
URI [	



Step 3: After add all information, select [Save Change], enter [Save Changes] page, save the change. [Note Information] will be seen. Then the system will be restarted automatically, please wait for a second (See Figure 3).

#### Phone Book

ne Boo	ok Page: pa	age 1 💌	
hone	Name	URL	Sele
0	301	192.168.1.2	
1	206	17476433364	
2	202	192.168.1.202:5062	
3			
4			
5			
6			
7			
8			
9			

Illustration 1: Name: 301, URL: 301@192.168.1.2. Application 1: The user pick up the phone, input [301], which, in [Name] column is [192.168.1.2] that rings Illustration 2: Name: 206, URL: 17476433364.

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

Illustration 3: Name: 202, URL: 192.168.1.202:5062.

Application 1: The user pick up the phone, input [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 pick up the phone, input [0227458080], but no information is found in [Name] column, so the requirement will be sent directly.

#### 4.2.1 Speed Dial (for Phone)

#### 4.2.1 Function

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

#### 4.2.2 Instruction

Figure Speed Dial Setting [1]

There must be corresponding M1 to M10 quick dial function button on the phone set; otherwise, the quick dial function will be uneffective. Speed Dial Phone List

You could set the speed dial phones in this page.

Phone	Name	URL	Select
0			
1			
2			
3			
4			
5			
6			
7			
8			
9			



Position:	(0~9)
Name:	
URL:	

Add Phone Reset

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

#### 4.2.3 Operate Instruction

Step 1: On the main page, select [Phone Book→Speed Dial], enter [Speed Dial Phone List] page, after revise the information (Phone: 0, Name: test, URL: 22068), (Figure 1), press the [Add Phone] (See Figure 1).

#### Speed Dial Phone List

hone	Name	URL	Selec
0			
1			
2			
3			
4			
5			
6			
7			
8			
9			

Position:	0	(0~9)
Name:	Test	
URL:	22068	

Step 2: After adding all the new information, please save change (See Figure 2).

### Speed Dial Phone List

Test	22068	

Position:	(0~9)
Name:	
URL:	



Step 3: After adding all information (See Figure 3), on the main page, select [Save Change], enter [Save Changes] page, and enforce the command by pressing [Save]. [Note

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Information] will be seen when saving successfully, then the system will be restarted automatically, please wait for a second.

Speed Dial Phone List

Phone	Name	URL	Select
0	Test	22068	
1	080	0800024365	
2	FAE	0912345678	
3			
4			
5			
6			
7			
8			
9			
Delete :	Selected Phone	Delete All Reset	
Position:		(0~9)	
Name:			

(Figure 3)

Step 4: When using the speed dialing function, please choose the right key (like M2), then the requirement will be forwarded directly to Phone2: 09123456789.

#### Notes:

[1]: Phone equipment function •

#### **Chapter 5.1 Phone Setting**

Provides Forward Setting, SNTP Setting, Volume Setting, DND Setting, Caller ID Setting [2], Auto Answer [3], Auto Dial Setting, Dial Plan, Flash Time Setting [2], Call Waiting Setting, Soft-Key Setting [1], Hotline Setting, Alarm Setting, T.38 Setting [2].

#### 5.1.1 Forward Setting

#### 5.1.1 Function

Forward the calling to dedicated phone number. Here provide All Forward, Busy Forward and No Answer Forward function. Before setting this forward function, please make sure service providor can support this function.

#### 5.1.2 Instruction

Figure 1: FXS or Phone equipment Forward Setting

You could not the ferward	l number et	f your phone	in this page		
Fou could set the lorward	i number o	your phone	e in this page		
All Forward:	Off	On			
Busy Forward:	Off	On			
No Answer Forward:	Off	On			
		Name		Number	or URL
All Fwd No.:					
Busy Fwd No.:					
No Answer Fwd No.:					

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

Submit Reset

All forward	Default: Off. When setting On, all incoming calls will be
	forwarded, in support of IP mode.
Busy Forward	Default: Off. When setting On, and the line is busy, it will run to
	support IP mode.
No Answer	Default: off. When setting On and there is no body answer the
Forward	phone, it will run to support IP mode.
All Fwd No.	All incoming calls will be forwarded.
Name	Show or Input the name.
URL Number	Show or input the dialing information, 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.
URL Number	Show or input the dialing information, can be Login Account, IP
	Address or PSTN Numbers, maximum length is 63 bytes.
No Answer Fwd	Forward the call when nobody answers the phone.
No.	
Name	Show or set the name.
URL Number	Show or input the dialing information, can be Login Account, IP
	Address or PSTN Numbers, maximum length is 63 bytes.
No Answer Fwd	Default: 3(Ring), when ringing 3 times but no one answers, it is
Time Out	regarded as no one answers the call. Data Range: (2~8 Ring)
	Maximum length is 2 bytes.
Submit [Button]	Enforce the command of saving chance.

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#### Reset [Button] Delete selected information.

#### Figure 2: FXS and FXO or Phone and FXO equipment

#### Forward Setting

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

All Forward:	⊙ Off	OIP	○ PSTN		
Busy Forward:	⊙ Off	OIP			
No Answer Forward:	⊙ Off	OIP	<b>OPSTN</b>		
		Name		URL/Number	
		Name		URL/Number	
All Fwd No.:		Name		URL/Number	
All Fwd No.: Busy Fwd No.:		Name		URL/Number	

No Answer Fwd Time Out: 3 (2~8 Ring)

Submit Reset

All forward	Default: Off. When setting ON, all the incoming calls will be
	forwarded by IP mode or PSTN mode.
	NOTICE: If the incoming call goes through FXO, the call
	could only be forwarded to IP mode.
Busy Forward	Default: Off. When setting On, and the line is busy, the call will
	be forwarded only by IP mode.
No Answer	Default: Off. When setting On, and nobody answers the phone, it
Forward	will run by IP mode or PSTN mode.
	NOTICE: 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.
URL Number	Show or input the dialing information, 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.
URL Number	Show or input the dialing information, can be Login Account, IP
	Address or PSTN Numbers, maximum length is 63 bytes.
No Answer Fwd	Forward the call when nobody answers the phone.
No.	
Name	Show or set the name.
URL Number	Show or input the dialing information, can be Login Account, IP
	Address or PSTN Numbers, maximum length is 63 bytes.
No Answer Fwd	Default: 3(Ring), when ringing 3 times but no one answers, it is
Time Out	regarded as no one answers the call. Data Range: (2~8 Ring)
	Maximum length is 2 bytes.
Submit [Button]	Enforce the command of saving chance.
Reset [Button]	Delete selected information.

## 5.1.3 Operate Instruction

Example 1: Forwarded under any condition

Step 1: On the main page, select [Phone Setting→Forward Setting], enter [Forward Setting] page, after revising all the information (All Forward: on, All fwd No Name: angel, URL: 22067), press [Submit] (See Figure 1).

#### Forward Setting

You could set the forward n	umber of	f your phone	e in tł	nis page.		
All Forward:	© Off	On				
Busy Forward:	Off	On				
No Answer Forward:	Off	On				
		Name			Number or UF	<u>R</u> L
All Fwd No.:	angel			22067		
Busy Fwd No.:						
No Answer Fwd No.:						
No Answer Fwd Time Out:	3	(2~8 Ring)	)			
	Submi	t Reset	t			

(Figure 1)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by press [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.
- Step 4: When receiving a new incoming call, and 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 [Phone Setting→Forward Setting], enter [Forward Setting] page, after revising all the information (Busy Forward: on, No Answer Forward: on, Busy fwd No Name: Mobil, URL: 0912345678, No Answer Fwd No Name: ext, URL: 22068) (See Figure 2), then click [Submit].

#### Forward Setting

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

All Forward:	● Off	🔊 On	
Busy Forward:	© Off (	On	
No Answer Forward:	© Off (	On	
	Na	ame	Number or URL
All Fwd No.:			
Busy Fwd No.:	Mobile		0912345678
No Answer Fwd No.:	ext		22068
No Answer Fwd Time Out:	3 (2	~8 Ring)	
	Submit	Reset	

(Figure 2)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by press [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a second.

- Step 4: When the line is busy, it will forward to Mobile [0912345678], and [0912345678] rings.
- Step 5: When it rings 3 time, and nobody answer 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 [Phone Setting→Forward Setting], enter [Forward Setting] page, after revising all the information (All Forward: on, All fwd No Name: angel, URL: 0912345678) (See Figure 3), then click [Submit].

#### Forward Setting

You could set the forwar	d number of	your pho	one in this page.	
<del>9</del>				
All Forward:	Off	⊙ IP	OPSTN	
Busy Forward:	⊙ Off	OIP		
No Answer Forward:	⊙ Off	OIP	○ PSTN	
		Name		URL/Number
All Fwd No.:	angel		22067	
Busy Fwd No.:				
No Answer Fwd No.:				
No Answer Fwd Time O	ut: 3	(2~8 Rin	uu)	
		(a. 0.1.0)	'97	

Submit Reset

(Figure 3)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by press [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a second.
- 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 [Phone Setting→Forward Setting], enter [Forward Setting] page, after revising all the information (Busy Forward: on, No Answer Forward: on, Busy fwd No Name: Mobil, URL: 0912345678, No Answer Fwd No Name: ext, URL: 22068) (See Figure 4), then click [Submit].

#### Forward Setting

All Forward:	⊙ Off	OIP	O PSTN	
Busy Forward:	OOff	⊙ IP		
No Answer Forward:	Off	⊙ IP	OPSTN	
		Name	URL/	Number
All Fwd No.:				
Busy Fwd No.:	Mobile		0912345678	
No. Anowor Ewd No.	ext		22068	

(Figure 4)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by press [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a second.
- 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 answer 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 [Phone Setting→Forward Setting], enter [Forward Setting] page, after revising all the information (All Forward: PSTN, All fwd No Name: angel, URL: 0912345678) (See Figure 5), then click [Submit].

#### Forward Setting

All Forward:	OOff	OIP	● PSTN	
Busy Forward:	⊙ Off	OIP		
No Answer Forward:	⊙ Off	OIP	OPSTN	
		Name		URL/Number
All Fwd No.:	mobile		09123456	78
Busy Fwd No.:				
No Answer Fwd No.:				



(Figure 5)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by press [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.
- Step 4: When receiving a new call, it will run by PSTN Port automatically, and call Mobile [0912345678]

#### Example 6: Busy Forward or No Answer Forward to PSTN

Step 1: On the main page, select [Phone Setting→Forward Setting], enter [Forward Setting] page, after revising all the information (Busy Forward: PTSN, No Answer Forward: on, Busy fwd No Name: Mobile, URL: 0912345678, No Answer Fwd No Name: ext, URL: 22068) (See Figure 6), then click [Submit].

#### Forward Setting

All Forward:	⊙ Off	OIP	O PSTN	
Busy Forward:	Off	⊙ IP		
No Answer Forward:	Off	OIP	● PSTN	
		Name		URL/Number
All Fwd No.:				
Busy Fwd No.:	mobile		0912345678	
No Answer Fwd No.:	Tom		031237788	
No Answer Fwd Time Or	ut: 3	(2~8 Rin	ia)	

#### (Figure 6)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by press [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.
- Step 4: When the line is busy, it will forward to [0912345678], and Mobile 0912345678 rings.
- Step 5: When rings 3 times and nobody answer the phone, it will run by PSTN Port, and call PSTN [031237788], and 031237788 rings.

#### 5.2.1 SNTP Setting

#### 5.2.1 Function

SNTP Setting can provide the website of time setting for the server.

#### 5.2.2 Instruction

Figure SNTP Setting

## SNTP Settings

SNTP:	⊙ On Off	
Primary Server:	north-america.pool.	ntp.org
Secondary Server:	asia.pool.ntp.org	
Time Zone:	GMT + 💙 08 💙	: 00 💙 (hh:mm)
Sync. Time:	1 : 0 :	0 (dd:hh:mm)
Daylight Saving: DST Offset:	<ul> <li>On Off</li> <li>- • 2 •</li> </ul>	
DST Start Date:	Jan 🗸	
	Oay of Month	01 🛩
	O Week of Month	Week 1 💙 Sun 🗸
	Start Time:	00 💌
DST End Date:	Jan 🚩	
DST End Date:	Oay of Month	01 💌
DST End Date:	<ul> <li>Day of Month</li> <li>Week of Month</li> </ul>	01 V Week 1 V Sun V

SNTP	When setting ON, the SNTP is on; and when setting OFF, the SNTP is off.
Primary Server	Default: time.windows.com; Can input IP or Domain Name,
	format is xxx.xxx.xxx.xxx; and the maximum length is 63 digits.
Secondary	Default: 208.184.49.9; can input IP or Domain Name, format is
Server	xxx.xxx.xxx.xxx; and the maximum length is 63 digits.
Time Zone	Default: GMT + 08:00 (hh:mm), and the format is (+/-,
	hh:mm) Maximum length is 2 bytes.
Sync. Time	Default: 1:00:00 (dd:hh:mm), it will check the time with the
	Server every other days, format: (dd:hh:mm) Maximum
	length is 2 bytes.
DST Satrt Date	Set up Daylight Saving Time • You can select the start date by
	day or week.
	Set up beginning month: Default setting is Jan. Here offer selection from Jan to Dec.
	Day of Month : Default setting is 01. Here provide selection from
	1th to 31th.
	Week of Month : Select the effective week. Here provide options

	for Last Week, Last Second Week, Week1, Week2 and Week3 •
	Week : Provide options for Sun, Mon, Tue, Wed, Thu, Fri, Sat
	Start Time : 00; set up effective time •
DST End Date	Stop Daylight Saving Time setting • You can select the stop date
	by day or week.
	Set up ending month: Default setting is Jan. Here offer selection
	from Jan to Dec.
	Day of Month : Default setting is 01. Here provide selection from
	1th to 31th.
	Week of Month : Select the effective ending week. Here provide
	options for Last Week, Last Second Week, Week1, Week2 and
	Week3 °
	Week : Provide options for Sun, Mon, Tue, Wed, Thu, Fri, Sat
	End Time: 00; set up effective ending time •

#### 5.2.3 Operate Instruction Example 1: Set up SNTP

Step 1: On the main page, select [Phone Setting→SNTP Setting], enter [SNTP Setting] page, after revising all information (e.g. SNTP: on, Primary Server: 208.184.49.9, Secondary Server: time.windows.com, Time Zone: GMT+08:00, Sync. Time: 00:12:00) (See Figure 1), then click [Submit].

#### **SNTP** Settings

SNTP:	⊙ On ○ Off
Primary Server:	208.184.49.9
Secondary Server:	time.windows.com
Time Zone:	GMT + 💙 08 💌 00 💌 (hh:mm)
Sync. Time:	0 12 (dd:hh:mm)

(Figure 1)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by press [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.

## Example 2: Set up Daylight Saving Time (From Aug. 11 to Oct. 30 in each day at 09:00 to 22:00 , 2-hour delay each day)

Step1: On the main page <sup>→</sup> select [Phone Setting → SNTP Setting] <sup>→</sup> enter [SNTP Settings] <sup>→</sup> revise data (E.g.: Daylingth Saving: On <sup>→</sup> DST Offset: -/2 <sup>→</sup> DST Start Date: Aug, Day of Month: 11 <sup>→</sup> Start Time: 09 <sup>→</sup> DST Start Date: Oct, Day of Month: 30 <sup>→</sup> Start Time: 22)(See figure 2) <sup>→</sup> press [Submit] bottom <sup>→</sup>

## **SNTP Settings**

You could set the SNTP	servers and Daylight Sa	aving Time (DST) in t	his page.
SNTP:	⊙ On ◯ Off		
Primary Server:	north-america.pool.n	tp.org	
Secondary Server:	asia.pool.ntp.org		
Time Zone:	GMT + 💙 08 💙	: 00 💙 (hh:mm)	
Sync. Time:	1 : 0 :	0 (dd:hh:mm)	
Daylight Saving:	⊙ On ◯ Off		
DST Offset:	- 💙 2 🌱		
DST Start Date:	Aug 🗸	11 🗸	
	Week of Month	Week 1	V Sun V
	Start Time.	05	
DST End Date:	Oct 🛩		
	Oay of Month	30 🗸	
	O Week of Month	Week 1	✓ Sun ✓
	End Time:	22 💌	
	Submit Reset		

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute he saving command by press [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a second.
- Step 4: On the main page, select [Phone Setting→ Alarm Setting], enter [Alarm Settings] page to check the time which equipment picked. (Example: Curren Time on equipment is 2008-08-29 09:58 but the time on PC is 11:58). In figure 3, there are two hours delay in Alarm Setting.

Alarm Se	ettings	日期和時間 內容	?
You could set the a	alarm time in this page.	日期時間 時區 網際網路時間 日期① 1月期① 1月期〇 1月期〇 1月月〇 12008	
Alarm: Alarm Time:	○ ON ③ OFF	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	•
Current time:	2008-08-29 09:58	31 目前的時區:台北標準時間	
		確定 取 消	套用(▲

(圖 3)

#### 5.3.1 Volume Settings

#### 5.3.1 Function

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

#### 5.3.2 Instruction

Figure 1: FXS equipment

#### Volume Setting

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

Handset Volume:	10	(0~12)
Handset Gain:	10	(0~15)

Submit Reset

#### Figure 1

Handset Volume	Default 10. Control the volume of the Handset from (0~12).
	Maximum length is 2 bytes.
Handset Gain	Default 10. Control the handset gain from (0~15). Maximum
	length is 2 bytes.
Submit [Button]	Save the change.
Reset [Button]	Clear the change.

#### Figure 2: FXS+FXO equipment

#### Volume Setting

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

Handset Volume:	10	(0~12)	
PSTN-Out Volume:	10	(0~12)	
Handset Gain:	10	(0~15)	
PSTN-In Gain:	10	(0~15)	

Submit Reset

#### (Figure 2)

Handset Volume	Default 10. Control the volume of the Handset from (0~12).
	Maximum length is 2 bytes.
PSTN-Out	Default 10. Control the PSTN-Out (PSTN Port) Volume from (0
Volume	~12). Maximum length is 2 bytes.
Handset Gain	Default 10. Control the Handset Gain from (0~15). Maximum
	length is 2 bytes.
PSTN-In Gain	Default 10. Control the PSTN-In (PSTN Port) Gain from (0~15).
	Maximum length is 2 bytes.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

Figure 3: Phone equipment

## Volume Setting

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

Handset Volume:	10	(0~15)	
Speaker Volume:	10	(0~15)	
Ringer Volume:	6	(0~10)	
Handset Gain:	10	(0~15)	
Speaker Gain:	9	(0~15)	

Submit Reset

(Figure 3)

Handset Volume	Default 10. Control the Handset Volume from (0~15). Maximum length is 2 bytes.			
Speaker Volume	Default 10. Control the Speaker Volume from (0~15). Maximum length is 2 bytes.			
Ringer Volume	Default 6. Control the Ringer Volume from (0~10). Maximum length is 2 bytes.			
Handset Gain	Default 10. Control the Handset Gain from 0~15. Maximum length is 2 bytes.			
Speaker Gain	Default 9. Control the Speaker Gain Volume from 0~15. Maximum length is 2 bytes.			
Submit [Button]	Submit the change.			
Reset [Button]	Clear the change.			

#### Figure 4: Phone equipment

### Volume Setting

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

Handset Volume:	10	(0~15)
Speaker Volume:	10	(0~15)
Ringer Volume:	6	(0~10)
PSTN-Out Volume:	10	(0~12)
Handset Gain:	8	(0~15)
Speaker Gain:	9	(0~15)
	10	

Submit Reset

(Figure 4)

Handset Volume	Default 10. Control the Handset Volume from (0~15). Maximum
	l length is 2 bytes.
Speaker Volume	Default 10. Control the Speaker Volume from (0~15). Maximum
	length is 2 bytes.
Ringer Volume	Default 6. Control the Ringer Volume from (0~10). Maximum
	length is 2 bytes.

PSTN-Out	Default 10. Control the PSTN-Out (PSTN Port) Gain Volume from
Volume	(0~12) Maximum length is 2 bytes.
Handset Gain	Default 8. Control the Handset Gain Volume from 0~15
	Maximum length is 2 bytes.
Speaker Gain	Default 9. Control the Speaker Gain Volume from 0~15
	Maximum length is 2 bytes.
PSTN-In Gain	Default 10. Control the PSTN-In (PSTN Port) Gain Volume from
	(0~15) Maximum length is 2 bytes.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

## 5.3.3 Operate Instruction

Step 1: On the main page, select [Phone Setting→ Volume Setting], enter [Volume Setting] page, after revising all information (e.g. Handset Volume: 9, PSTN-Out Volume: 12, Hand Set Gain: 9, PSTN-In Gain: 13) (See Figure 1), then click [Submit].

## Volume Setting

You could set the volum	e of your phone in this page.	
Handset Volume:	9 (0~12)	
PSTN-Out Volume:	12 (0~12)	
Handset Gain:	9 (0~15)	
PSTN-In Gain:	13 (0~15)	

Submit Reset

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by press [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.

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#### 5.4.1 Melody (Melody Setting)

#### 5.4.1 Function

Melody Setting, provide 4 kinds of melody for ring selection.

#### 5.4.2 Instruction

#### Phone and Phone+FXO equipment Ringer Settings

You could set your	favorite ringer in this page
Ringer:	© On
Ringer Type:	ringer 1 👻
	Submit Reset

Ringer	Default: Off, using standard ring. When setting to On, the
	melody of ring can be changed to the melody you select.
Ringer Type	Scroll down the ring type.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

#### 5.5.1 DND Setting

#### 5.5.1 Function

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

#### 5.5.2 Instruction

Figure DND Setting

#### **DND** Setting

You could set the do not disturb period of your phone in this page.				
DND Always:	OOn	⊙ Off		
DND Period:	On	⊙ Off		
From:	00.	:00	(hh:mm)	
To:	00	00	(hh:mm)	

#### Submit Reset

DND Always	Default: OFF. When setting ON, all incoming calls will be denied.
DNS Period	Default OFF. When setting 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.
То	Default: 00:00(hh:mm), please input the time point that ends the command. (24h in total, hh:mm) Maximum length is 2

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

#### 5.5.3 Operate Instruction

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

Step 1: On the main page, select [Phone Setting→ DND Setting], enter [DND Setting] page, after revising all information (e.g.DND Period: on, Form: 18:00, To: 23:00) (See Figure 1), then press [Submit].

#### DND Setting

You could set the	e do not d	isturb per	iod of your phone in this page.
DND Always:	On	⊙ Off	
DND Period:	💿 On	Off	
From:	18	: 00	(hh:mm)
To:	23	00	(hh:mm)
	Sub	mit R	eset

(Figure 1)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by press [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.
- Step 4: When receiving a new call during DND time period, "busy tone" will be heard.

#### Example 2: Start the function that denied all incoming calls

Step 1: On the main page, select [Phone Setting → DND Setting], enter [DND Setting] page, after revising information (DND Always: on) (See Figure 2), then click [Submit].

#### DND Setting

DND Always:	⊙ On	OOff	
DND Period:	On	⊙ Off	
From:	00	: 00	(hh:mm)
To	00	: 00	(hh:mm)

#### (Figure 2)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by press [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.
- Step 4: When receiving a new call, "busy tone" will be heard.

#### 5.6.1 Caller ID (for FXS Port)

#### 5.6.1 Function

Caller ID Setting provides Caller ID, Single Caller ID, CID without Time, CID Type 2

#### 5.6.2 Instruction

Figure Caller ID Setting (VoIP Gateway Only)

#### Caller ID Setting

You could enable/disable the caller ID setting in this page.

Caller ID:	Caller ID after 1st Ring (FSK) 🛛 👻
Single Caller ID:	◯ Yes ⊙ No
CID Without Time:	◯Yes ⊙No
CID Type 2:	🔿 Yes 💿 No

#### Submit Reset

Caller ID	Default: Caller ID after 1st Ring (FSK). After 1 <sup>st</sup> Ring, the Caller ID will be forwarded. Providing Don't show caller ID, Caller ID after 1st Ring (FSK), Caller ID before 1st Ring (FSK), Caller ID berofr 1st Ring (DTMF) Items for choosing.
Signal Caller ID	Default NO. When setting ON, Caller ID, Call Out No. and date will be shown on the LCD. Single Caller ID: only contain Caller ID (without Name and Date/Time). According to Telcordia specifications, CND signaling starts as early as 300 mS after the first ring burst and ends at least 475 mS before the second ring burst
<b>CID</b> Without Time	Default: NO. When setting Yes, only caller ID will be shown.
CID Type 2	Default: No. When setting ON, and during a call, a new call also comes; the new call's ID will be shown on the LCD. Needs the HW's support.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

#### 5.6.3 Operate Instruction

Step 1: On the main page, select [Phone Setting→Caller ID Setting], enter [Caller ID Setting] page, after revising information (e.g. Caller ID: Don't show caller id) (See Figure 1), then click [Submit].

#### Caller ID Setting

You could enable/disable the caller ID setting in this page.

Caller ID:	Caller ID after 1 st Ring (FSK) 🛛 🚩
Single Caller ID:	Don't show caller ID
CID Without Time:	Caller ID after 1st Ring (FSK)
CID Type 2:	Caller ID before 1st Ring (DTMF)
CID Type 2:	Caller ID before 1st Ring (D1WF)
	Submit Resat

(Figure 1)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by press [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.
- Step 4: When receiving a new call, no CID will be found.

#### 5.7.1 Auto Answer (For FXO)

#### 5.7.1 Function

Auto Answer provides auto answer and switches to FXO or FXS.

#### 5.7.2 Instruction

Figure Auto Answer Setting

#### Auto Answer

You could enable/disable the auto answer in this page.						
Auto Answer:	⊙ Off		O FXO IN	OBoth	O Trunk Gateway	
Auto Answer Counter:	3	(0~8)				
PIN Code Enabled:	⊙ Off	On				
PIN Code:						

Submit Reset

Auto Answer	Default OFF. When setting ON, auto answer will come into run.
Auto Answer	Default 3 <sup>rd</sup> Ring, when ringing after 3 times, auto answer will
Counter	run. Counter zone (3~8) Maximum length is 2 bytes.
PIN Code Enabled	Default OFF. When setting ON, the right password is needed, and
	please presses"#" after the password.
PIN Code	The password. Maximum length is 31 bytes.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

#### 5.7.3 Operate Instruction

#### Example 1: Start the Auto Answer Function

Step 1: On the main page, select [Phone Setting→Auto Answer], enter [Auto Answer] page, after revising information (e.g. Auto Answer: on, Auto Answer Counter: 1) (See Figure 1), then click [Submit].

#### Auto Answer

Auto Answer:	Off OIP IN OFXO IN OBoth OTrunk Gateway
Auto Answer Counter:	2 (0~8)
PIN Code Enabled:	⊙ Off O On
PIN Code:	

(Figure 1)

Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.

Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute

the saving command by press [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.

Step 4: When an incoming call comes through FXO or FXO Port, please wait for a while till heard the 2<sup>nd</sup> Dial Tone, then please dial FXS or FXO Port phone number.

#### Example 2: Start Auto Answer+ PIN Code Function

Step 1: On the main page, select [Phone Setting→Auto Answer], enter [Auto Answer] page, after revising information (e.g. Auto Answer: on, Auto Answer Counter: 1, PIN Code Enabled: on, PIN Code: 123456) (See Figure 2), then press [Submit].

#### Auto Answer

You could enable/disable the auto answer in this page.						
Auto Answer						
Auto Answer Counter:						
PIN Code Enabled:	Off ⊙On					
PIN Code:						

#### (Figure 2)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by press [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.
- Step 4: When dialing in through FXO or FXO Port, please wait for a while till hearing the dialing tone, then input the PIN Code (e.g. 123456) end with "#" till hearing the 2<sup>nd</sup> dialing tone, then input FXS or FXO Port phone number.

#### Exp. 3: Activate Auto Answer to Trunk Gateway function

Step 1: In the main screen, select [Phone SettingàAuto Answer] item, enter into [Auto Answer] screen, modify information (ex: Auto Answer: Trunk Gateway)(as of photo 3), and press [Submit] button.

#### Auto Answer

You could enable/disable	ie the auto answer in this page.
Auto Answer:	Off OIP IN OFXO IN OBoth OTrunk Gateway
Auto Answer Counter:	2 (0~8)
PIN Code Enabled:	⊙ Off ◯ On
PIN Code:	



Step 2:After the saving setup function is saved, enter into [Note Information] screen, notify[must execute saving modification setup and reactivate the system], the modification setup will be

effective.Step3: Select [Save Change] item in the main manu, enter into [Save Changes]screen, execute saving modification setup, press[Save]button. When enter into [Note Information]screen, it means that the modification action is completed. It will take a while for the system to be reactivated automatically.

Step4: Dial the number (ex: 00800024635) (as of photo 4), SIP Proxy Server will send to activated Trunk Gateway

facility.	
@ auto_answer_trunk.cap - Ethereal	
Eile Edit View Go Capture Analyze Statistics Help	
$\textcircled{\begin{tabular}{ c c c c c } \hline \hline$	
Eilter: sip	
No.         Time         Source         Destination         Totoco Info           33 10.07.02.01025 01.02.230.71         132.100.1.200         31P         3120.01.200         3100.01.200	
<pre>Viai SIP/2.0/UDP 61.62.236.71:5060;branch=29b64bk568d82de;rport  From: "2000" sip for address: sip:2000861.62.236.71 Call=triat_diress: sip:2000861.62.236.71 Call=triat_diress: sip:2000861.62.236.71 Cseq: 102 INVITE User-Agent: GTS-200 Max-Forwards: 70 Date: Sat, 23 Jun 2007 02:53:48 GMT Allow: INVITE, ACK, CAMCEL, OPTIONS, BYE, REFER, SUBSCRIBE, NOTIFY Content-Length: 435 Message body SIM Session Description Protocol Session Description Protocol Session ID: 2031 S</pre>	
Uddo 31 63 00 Ud 34 67 33 20 36 73 99 70 33 30 38 30 1 E. [01: 35191080 0000 31 03 23 43 33 63 34 40 33 22 30 22 31 33 35 22 00 22 43 3 00070 31 88 37 22 86 39 33 35 31 57 33 32 60 00 24 43 137.0315 247.055 0110 30 40 33 12 22 36 32 23 23 57 33 32 60 00 24 43 137.0315 247.055 0110 30 40 33 12 22 36 32 24 32 33 36 22 37 31 32 00 00 44 7 0110 30 40 33 12 22 36 32 24 32 33 36 22 37 31 32 00 00 44 7 0110 30 40 33 12 22 36 32 24 32 33 36 22 37 31 32 00 00 44 7 0110 30 40 33 12 22 36 32 24 32 33 36 22 37 31 32 00 00 461,62, 72,86 0110 30 40 33 12 22 36 32 44 32 30 33 1 23 43 35 35 1 23 44 33 1 24 35 35 1 24 34 35 1 24 35 1 24 34 35 1 24 34 35 1 24 34 35 1 24 34 35 1 24 34 35 1 24 34 35 1 24 34 35 1 24 34 35 1 24 36 31 24 35 1 24 37 35 064 1 62 37 33 35 30 66 1 37 33 36 24 37 31 04 04 43 35 31 24 35 32 1 24 37 35 066 1 62 0150 24 32 33 36 22 37 31 04 04 43 35 36 5 71 3a 20 31c5eq: 1 Fr (326): To Header (sip.To), 43 bytes [F: 1417 D: 37 M: 0	

(Figure 4)

Step5: When the activated Trunk Gateway facility receive the call, it will switch to FXO port automatically. Please follow [To: <sip:0800024365@xxx.xxx.xxx>] column information, execute dialing to the number of [0800-024-365].
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@ auto_answer_trunk.cap - Ethereal		- FX
<u>Eile E</u> dit <u>V</u> iew <u>G</u> o <u>C</u> apture <u>A</u> nalyze <u>S</u> t	atistics <u>H</u> elp	
	≟ ©	
Eilter: sip	Expression Clear Apply	
No         Time         Source           35 10:07:02:26743 192:168:1.208         10:07:02:26743 192:168:1.208           41 10:07:02:372754 192:168:1.208         42 10:07:02:474545 61:62:2.236.71           45 10:07:02:474565 61:62:2.236.71         44 10:07:04:446664 192:168:1.27           45 10:07:04:046664 192:168:1.27         45 10:07:04:446664 192:168:1.27           46 10:07:04:475978 61:62:236.71         47 10:07:04:4759978 61:62:236.71           47 10:07:04:675993 61:62:236.71         52 10:07:05:53023 192:168:1.27           51 10:07:05:76355122:168         128.12           75 10:07:07:07:07:07578 61:62:236.71         52 10:07:07:07:0755512:168	Destination         Totoco         Info           192.109.1.200         SIP         Status. 407 FLOAy Authent reaction Required           61.62.236.71         SIP         Request: ArK sip:00800024365@61.62.236.71           61.62.236.71         SIP/SD Request: INVITE sip:00800024365@61.62.236.71           192.168.1.208         SIP         Status: 100 Trying           102.168.1.207         SIP/SD Request: INVITE sip:00800024365@220.135.187.6           61.62.236.71         SIP         Status: 100 Trying           102.168.1.208         SIP         Status: 180 Ringing           101.62.236.71         SIP/SD Status: 180 Ringing           101.62.236.71         SIP/SD Status: 1200 K, with session description           192.168.1.208         SIP/SD Status: 200 K, with session description           192.168.1.27         SIP/SD Status: 200 K, with Session description           192.168.1.208         SIP/SD Status: 200 K, with Sesion description	L, with session description 53:55173, with session description
344 10:07:07.96430 192.1061.206 344 10:07:07.966162.236.71 395 10:07:07.976716 61.62.236.71 [Resent Packet: False] ■ Message Header Via: SIP/2.0/UDP 61.62.236.71:5060; ■ From: "2000" <sip:2000@61.62.236.71 SIP from address: sip:2000@61.62. CDP from address: sip:2000@61.62.</sip:2000@61.62.236.71 	01,02,250,71 SIP KeQUESL: KeGISTEK SIP:01.02,230,71 192,168,1,208 SIP Status: 100 Trying (1 bindings) 192,168,1,208 SIP Status: 401 Unauthorized (1 bindings) oranch=z9hG4bK568d82de;rport ;tag=as63fc531e 236,71	
<ul> <li>To: &lt;<ip>Address: s1p:0800024856920.4135.187.633</ip></li> <li>SIP to address: s1p:0800024365922</li> <li>Contact: &lt;<fp:2000061.62.236.71></fp:2000061.62.236.71></li> <li>Contact Hinding: &lt;<fp:2000061.62.236.71></fp:2000061.62.236.71></li> <li>SIP contact address: s1p:2000061.62.</li> <li>SIP contact address: s1p:2000061.62.</li> <li>Call :</li> <li>SIP contact address: s1p:2000061.62.</li> <li>Call :</li> <li>Call :</li></ul>	<pre>\$173&gt; .135.1 7.63:55173 :36.71&gt; :61.62.236.71 :Fa73d@61.62.236.71 ; BYE, REFER, SUBSCRIBE, NOTIFY ion (v): 0 :t 2031 2031 IN IP4 61.62.236.71</pre>	
Owner         Address         Type:         1P4           00d0         31         65         0d         0a         44         6f         3a         20         3c         78         69         7           00d0         30         32         33         36         35         43         22         32         23         32         23         35         31         37         30         30         35         35         31         37         30         31         37         22         36         32         24         30         35         35         31         37         30         31         36         61         67         43         20         37         32         33         36         27         36         73         27         37         73         32         37         33         34         32         33         34         32         33         33         34         36         31         38         37         43         20         33         33         34         33         33         34         33         34         35         36         40         33         44         33         36	0 3a 30 38 30 1 33 35 2e 0024365@ 220.135. 3e 0d 0a 43 187.63:5 5173>C 3 32 30 0 ontact: <\$1;200 2 37 31 3e 0d 0@61.62. 236.71>. 3 3 36 33 0. call-10: 493630 1 63 64 33 35 394c18dd 2051cd35 5 31 2e 36 2 a 3759fa7 3d@61.62 5 71 3a 20 31236.71C5eq: 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

(Figure 5)

### 5.8.1 Dial Plan Settings

#### 5.8.1 Function

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

### 5.8.2 Instruction

### Figure 1: FXS/Phone equipment

### Dial Plan

You could the set the	dial plan in this page.
Drop prefix :	◯Yes ⊙No
Replace rule 1:	+
Drop prefix :	⊖Yes ⊙No
Replace rule 2:	+
Drop prefix :	⊖Yes ⊙No
Replace rule 3:	+
Drop prefix :	○Yes ⊙No
Replace rule 4:	+
Dial now:	
Auto Dial Time:	5 (3~9 sec)
Use # as send key:	⊙Yes ○No
Use * for IP dialing:	⊙Yes ○No

Submit Reset

Figure 1

Drop Prefix	Default: No (Encode). When encountering the accordant rule, a new number will be added in front of the dialing number. When setting YES, and encountering the accordant rule, a new number will replace the dialing number.
Replace rule1	Providing the setting number information. 7 digits number is preferred, from (0~9999999) Can be numbers or strings Maximum length is 8 bytes.
+	Provides the rules for encode and decode. Maximum length is 31 digits number, can be numbers 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 numbers that begin 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 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 digits number, can be numbers or signs (+, x). (+) means "Or"; (x) means any numbers that is from 0~9 Maximum length is 40 bytes.
Replace rule2	Providing the setting number information. 7 digits number is preferred, from (0~9999999) Maximum length is 8 bytes.
+	Provides the rules for encode and decode. Maximum length is 31

	digits number, can be numbers or signs (+, x). (+) means "Or"; (x) means any numbers 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 YES, and encountering the accordant rule, a new number will replace the dialing number.
Replace rule3	Providing the setting number information. 7 digits number is preferred, from (0~9999999). Maximum length is 8 bytes.
+	Provides the rules for encode and decode. Maximum length is 31 digits number, can be numbers or signs (+, x). (+) means "Or"; (x) means any numbers 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 YES, and encountering the accordant rule, a new number will replace the dialing number.
Replace rule4	Providing the setting number information. 7 digits number is preferred, from $(0 \sim 9999999)$ . Maximum length is 8 bytes.
+	Provides the rules for encode and decode. Maximum length is 31 digits number, can be numbers or signs (+, x). (+) means "Or"; (x) means any numbers that is from 0~9 Maximum length is 40 bytes.
Dial Now	Provides the rules for encode and decode. Maximum length is 31 digits number, can be numbers or signs (+, x). (+) means "Or"; (x) means any numbers that is from 0~9. 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.
Auto Dial Time	Default: 5 second. 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 execute this action. When setting NO, it didn't end with # when execute this action, but according with 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 input "*", it will used as ".". E.g. When input 192*168*1*100#, it execute"192.168.1.100#". When setting NO, while dialing, input (*) doesn't mean (.).
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

Figure 2: Phone / FXS + FXO equipment

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# Dial Plan

Routing to :	OIP OFXO ODisable	
Routing rule :		
Drop prefix :	OYes ⊙No	
Replace rule 1:	+	
Drop prefix :	OYes <sup>●</sup> No	
Replace rule 2:	+	
Drop prefix :	⊖Yes ⊙No	
Replace rule 3:	+	
Drop prefix :	⊖Yes ⊙No	
Replace rule 4:	+	
Dial now:		
Auto Dial Time:	5 (3~9 sec)	
Use # as send key:	⊙Yes ○No	
Use * for IP dialing:	⊙Yes ○No	

(Figure 2)

欄	位	說	明
Routing To		Default to Disable (OFF);	provide IP, FXO, Disable.提供 IP 或
		FXOProvide IP or FXO "Ro	outing To" function when dailing. The
		condition is based on Rout	ing Rule. According to the routing rule,
		IP or FXO dail out functio	n can be selected.
Routing Rule	<u>.</u>	Provide routing standard	to do the drop prefix funtcion. "+" is
		used to deffericent the m	ultiple routing standards setup, if
		necessary.	
		Ex: Routing rule: D007+0	0091.
		1. When the input number	r is started with 007, such as
		00782280220, the condit	on is satified. The routing rule will first
		drop 007, change to 8228	0220, and then refer to the Routing To
		setup to select the dalling	route.
		2. When the input number	r is started with 009, such as
		00982280220, the condit	ion is satilled. The routing rule will not
		the dailing route	Terer to the Routing to setup to select
Dron Prefix		Default to No (Add Prefix)	: add or drop standard. When changed
		to Yes (Drop Prefix) if	be rule is satified the prefix will be
		droped new number will	be added on Provide No (Add Prefix)
		and Yes (Drop Prefix) mo	de.
		No: When the routing rule	e is satified, a new prefix will be added
		on directly.	
		Yes: When the routing ru	le is satified, the satified prefix will be
		dropped and added a new	v prefix, then.
Replace rule	1	Input add prefix or rep	lace number. Only numbers can be

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	inputted. The segment for number setup is 0~9999999; number
	length is 8 digits.
+	Input dailing rule data. Numbers or symbols can be inputted. number length is 40 digits. symbols: can only input [+,x]. +: represents "or". Ex: 123+456+334+5xx means 123 or 456 or 334 or 5xx.
	x: represents any number between 0~9. Ex: 5xx, means any 3-digit number starts with 5.
Drop Prefix	Default to No (Add Prefix); add or drop standard. When changed to Yes (Drop Prefix), if the rule is satified, the prefix will be droped, new number will be added on. Provide No (Add Prefix) and Yes (Drop Prefix) mode.
	No: When the routing rule is satified, a new prefix will be added on directly. Yes: When the routing rule is satified, the satified prefix will be
	dropped and added a new prefix, then.
Replace rule2	Input add prefix or replace number. Only numbers can be inputted. The segment for number setup is 0~9999999; number length is 8 digits.
+	Input dailing rule data. Numbers or symbols can be inputted. number length is 40 digits. symbols: can only input [+,x]. +: represents "or". Ex: 123+456+334+5xx means 123 or 456 or 334 or 5xx.
	x: represents any number between 0~9. Ex: 5xx, means any 3-digit number starts with 5.
Drop Prefix	Default to No (Add Prefix); add or drop standard. When changed to Yes (Drop Prefix), if the rule is satified, the prefix will be droped, new number will be added on. Provide No (Add Prefix) and Yes (Drop Prefix) mode. No: When the routing rule is satified, a new prefix will be added on directly. Yes: When the routing rule is satified, the satified prefix will be dropped and added a new prefix then
Replace rule3	Input add prefix or replace number. Only numbers can be inputted. The segment for number setup is 0~9999999; number length is 8 digits.
+	Input dailing rule data. Numbers or symbols can be inputted. number length is 40 digits. symbols: can only input [+,x]. +: represents "or". Ex: 123+456+334+5xx means 123 or 456 or 334 or 5xx. x: represents any number between 0~9. Ex: 5xx, means any 3-digit number starts with 5.
Drop Prefix	Default to No (Add Prefix); add or drop standard. When changed to Yes (Drop Prefix), if the rule is satified, the prefix will be droped, new number will be added on. Provide No (Add Prefix) and Yes (Drop Prefix) mode. No: When the routing rule is satified, a new prefix will be added on directly. Yes: When the routing rule is satified, the satified prefix will be dropped and added a new prefix then
Replace rule4	Input add prefix or replace number. Only numbers can be

	inputted. The segment for number setup is 0~9999999; number length is 8 digits.
+	Input dailing rule data. Numbers or symbols can be inputted. number length is 40 digits. symbols: can only input [+,x]. +: represents "or". Ex: 123+456+334+5xx means 123 or 456 or 334 or 5xx. x: represents any number between 0~9. Ex: 5xx, means any 3-digit number starts with 5.
Dial Now	Automatic dialing. When the dialing rule fits in this column, the automatic dialing function will be executed without waiting for "press #" to terminate the action. Numbers or symbols can be inputted; number length is 124 digits. bols: can only input [+,x]. +: represents "or". x: any number between 0~9. Note: 1st number can not be set to "0", because "0" will not determine the Dial Now standard. If the Dial Now is set to 0xxxx, since it starts with "0", the system will not follow the dialing rule to dial out.
Auto Dial Time	Default to 5(sec) to be the waiting length for the system to execute the auto dial action. Waiting for few seconds, without receiving any press button action, the system will execute the auto dial. Ony number button can be pressed. The segment for the auto dial time setup is 3~9 seconds. Time length is 1 digit.
Use # for send key	Default to Yes (On); [#] key is used to terminate the receiving signal and execute the auto dial function. Provide Yes(On) and No (Off) mode. Yes(On): [#] key is used to terminate the receiving signal or to determine the time for Auto Dial Time column. Without pressing any button within a certain seconds, the Auto Dial function will take action. No(Off): [#] key is not used for termination of the receiving signal, but only used to determine the time for Auto Dial Time column. Without pressing any button within a certain seconds, the Auto Dial function will take action.
Use * for IP dialing	Default to Yes (On); "*" key is used as of "." key. Provide Yes(On) and No (Off) mode. Yes(On): When [*] key is used as of [.] key, i.e.: input 192*168*1*100#, the system will execute the dial action as of "192.168.1.100#". No(Off): When [*] key is used as of [*] key, i.e.:input 700*#, the system will execute the dial action as of "700*#".
Submit [Button] Reset [Button]	To execute the modification setup. To erase the inputted information

### 5.8.3 Operate Instruction

### Example 1: Dial Plan Function

Step 1: On the main page, select [Phone Setting→Dial Plan], enter [Dial Plan] page, after revising information (e.g. Drop prefixNo, Replace rule 1002, 8613+8662; Drop prefixYes, Replace rule 2006, 002+003+004+005+007+009; Drop prefixNo, Replace rule

3009, 12; Drop prefixNo, Replace rule 4007, 5xxx+35xx+21xx; Dial Now\*xx+#xx+11x +xxxxxxx) (See Figure 1), then press [Submit].

### Dial Plan

You could the set the	e dial plan in this page.
Drop prefix :	⊙Yes ⊙No
Replace rule 1:	002 + 8613+8662
Drop prefix :	⊙Yes ○No
Replace rule 2:	006 + 002+003+004+005+007+009
Drop prefix :	⊙Yes ⊙No
Replace rule 3:	009 + 12
Drop prefix :	⊙Yes ⊙No
Replace rule 4:	007 + 5xxx+35xx+21xx
Dial now:	*xx+#xx+11x+xxxxxxx
Auto Dial Time:	5 (3~9 sec)
Use #as send key:	⊙Yes ◯No
Use * for IP dialing:	⊙Yes ○No

#### Submit Reset

#### (Figure 1)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by press [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.
- Instruction 1: Drop prefixNo, Replace rule 1002, 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 2006, 002+003+004+005+007+009.

- Application 1: When input 002 and all numbers that begin with 002 will be replaced by 006; so actually the dialing number is [006+xxx]
  - Application 2: When input 003 and 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 3009, 12.

Application 1: When input 12, and 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 4007, 5xxx+35xx+21xx.

- Application 1: When input 5xxx, all 4 digits numbers that begin with 5, will be added with 007; so actually the dialing number is [007+5xxx].
- Application 2: When input 534, all 3 digits numbers that begin with 5, doesn't match the encode rule, so actually the dial out number is [534]
- Application 3: When input 35xxx, all 5 digits numbers that begin with 35, will be added with 007; so actually the dialing number is [007+5xxx].

- Application 4: When dial 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 meet the condition"\*xx" will be sent out immediately, like \*00, \*01, \*02... \*99. If input "\*0#", send out number is"\*0#"
  - Application 2: Any information that meet the condition" #xx" will be sent out immediately, like #00, #01, #02...#99.
  - Application 3: Any information that meet 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 input 8 digit numbers, the system will send out the number immediately. E.g.: 12345678

### 5.9.1 Flash Time Setting (for FXS & FXO)

#### 5.9.1 Function

Flash Time Setting can transfer or hang off the phone.

#### 5.9.2 Instruction

Figure 1: FXS equipment (included FXS , FXS+PSTN)

### Flash Time Setting

Max Flash Time:	60 x 10MS (4~255)	

#### Figure 1

Max Flash Time	Default 60. Flash signal that is <(less than) 600ms, will be
	regarded as transfer; flash signal that is > (more than) 600ms
	will be regarded as On-Hook. From (4~255), Unit: 10MS.
	Maximum length is 3 bytes.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

### Figure 2: FXS+FXO equipment

# Flash Time Setting

You could set the flash time in this page.

Generate Flash Signal:	10	x 10 ms (9~120)	
FXS Flash Time			
FXS Flash Time Flash Signal Detect (MAX):	60	<mark>x 10 ms (4~255)</mark>	

Submit Reset

Figure	2
--------	---

FXO Flash Time	FXO Port Flash Time
Flash Time	Default 60. Flash signal that is < (less than) 600ms, will be
	regarded as transfer; flash signal that is > (more than) 600ms
	will be regarded as On-Hook. From (4~255), Unit: 10MS.
	Maximum length is 3 bytes.
FXS Flash Time	FXO Port Flash Time
Max Flash Time	Default 60. Flash signal that is < (less than) 600ms, will be regarded as transfer; flash signal that is > (more than) 600ms will be regarded as On-Hook. From (4~255),Unit: 10MS.
Max Flash Time	Default 60. Flash signal that is <(less than) 600ms, will be regarded as transfer; flash signal that is > (more than) 600ms will be regarded as On-Hook. From (4~255),Unit: 10MS. Maximum length is 3 bytes.
Max Flash Time Min Flash Time	Default 60. Flash signal that is <(less than) 600ms, will be regarded as transfer; flash signal that is > (more than) 600ms will be regarded as On-Hook. From (4~255),Unit: 10MS. Maximum length is 3 bytes. Default 7. Flash signal that is <(less than) 600ms, will be

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	will be	regarded	as	On-Hook.	From	(3~12),	Unit: 10MS.
	Maximu	m length is	3 b	ytes.			
Reset [Button]	Clear th	e change.					

#### Figure 3: Phone+FXO equipment

#### Flash Time Setting

Flash Time:	60	x 10MS (9~120)

#### (Figure 3)

Flash Time	Default 60. Flash signal that is < (less than) 600ms, will be
	regarded as transfer; flash signal that is > (more than) 600ms
	will be regarded as On-Hook. From (4~255), Unit: 10MS.
	Maximum length is 3 bytes.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

#### 5.9.3 Operate Instruction

Step 1: On the main page, select [Phone Setting→Flash Time Setting], enter [Flash Time Setting] page, after revising information (e.g. Flash Time: 70, Max Flash Time: 100) (See Figure 1), then click [Submit].

### Flash Time Setting

You could set the fla	sh time in this page.	
FXO Flash Time		
Flash Time:	70 x 10MS (9~120)	
FXS Flash Time		
Max Flash Time:	100 x 10MS (4~255)	
	Submit Reset	

(Figure 1)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by press [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.

... .

#### 5.10.1 Call Waiting Setting

#### 5.10.1 Function

Call Waiting Setting provides call waiting function.

#### 5.10.2 Instruction

Figure Call Waiting Setting

#### Call Waiting Setting

You could enable	/disable the call waiting setting in this page.
Call Waiting:	⊙ On ◯ Off
	Submit Reset
Default:	ON, when setting OFF, call wa

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

#### 5.10.3 Operate Instruction

#### Example 1: Close call waiting function

Step 1: On the main page, select [Phone Setting→ Call Waiting Setting], enter [Call Waiting Setting] page, after revising information (e.g. Call Waiting: off) (See Figure 1), then click [Submit].

### Call Waiting Setting

You could enabl	le/disable the call waiting setting in this page.	
Call Waiting:	○on ⊙Of	
	Submit Reset	

#### (Figure 1)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by press [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.
- Step 4: When there is a new call during calling, busy tone will be heard.

#### Example 2: Start the call waiting function

Step 1: On the main page, select [Phone Setting → Call Waiting Setting], enter [Call Waiting Setting] page, after revising information (e.g. Call Waiting: off) (See Figure 1), then click [Submit].

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Call	Waiting	Setting
------	---------	---------

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

Call Waiting: 💿 On 🔘 Off



(Figure 2)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by press [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.
- Step 4: While Person A is talking with Person B, but Person C calls A; so A will hear the reminding tone, if A would like to pick up C's call, A need to press the key [Hold] or [Flash] (B's call is maintaining at the same time); If A would like to talk with B again, A need to press the key [Hold] or [Flash] (C's call is maintaining at the same time)

### 5.11.1 Soft-Key Setting (for Phone)

#### 5.11.1 Function

Soft-Key Setting provides Pick-up key and Voice mail key for the phone. Phone is required to have those 2 keys. SIP Proxy server is required to have those function.

#### 5.11.2 Instruction

Figure	Soft-Key Setting (VoIP Phone Only)
	Soft-key Setting

Soft Low Satting

Pick up key:	

Submit Reset

Pick up Key	Input the name of the pick up key, can be numbers or signs. Maximum length is 15 bytes. The phone is required to have related keys.
Voice mail Key	Input the name of the voice mail key, can be numbers or signs. Maximum length is 15 bytes. The phone is required to have related keys.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

#### 5.11.3 Operate Instruction

Step 1: On the main page, select [Phone Setting→Soft-Key Setting], enter [Soft-Key Setting] page, after revising information (e.g. C Pick up kye: \*95, Voice Mail Key: \*98) (See Figure 1), then click [Submit].

Y OLL COLLIG CONTIGUES THE SO	ft-key cetting in this name	
	n ney setting in this page.	
Pick up key:	*95	
Voice mail key:	*97	

(Figure 1)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by press [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.
- Step 4: When listening the voice mail, please press [Voice Mail]. When pick up the phone, please press [Pick UP]

### 5.12.1 T.38 (FXS) Setting (T.38 Fax)

#### 5.12.1 Function

T.38 Setting provides the setting related to fax T.38 **SIP Proxy server Or Trunk is** required to have those function.

### 5.12.2 Instruction

Figure 1: FXS /FXS+FXO equipment

#### T.38 (FAX) Setting

Submit Reset

(Figure 1)

	(
T.38 (FAX)	Default ON. When setting OFF, T. 38 will be closed.
T.38 Port	Default 60000. To set the location of T.38. Data range: (1024~
	65535). Maximum length is 5 bytes.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

#### Figure T.38 (FXS) Setting (2FXS VoIP Gateway Only)

#### T.38 (FAX) Setting

You could enable/disable the FAX function in this page.

T.38 (FAX):	⊙On (	Off
T.38 Port of Phone1:	60000	Only support one port at a time)
T.38 Port of Phone2:	60100	(1024~65533)

#### Submit Reset

T.38 (FAX)	Default: ON. When setting OFF, T. 38 will be closed.		
T.38 Port of	Default 60000. To set the location of T.38. Data range: (1024~		
Phone 1	65535) Support one port executes fax function. Maximum		
	length is 5 bytes.		
T.38 Port of	Default 60100. To set the location of T.38. Data range: (1024~		
Phone 2	65535) Support one port executes fax function. Maximum		
	length is 5 bytes.		
Submit [Button]	Submit the change.		
Reset [Button]	Clear the change.		

#### 5.12.3 Operate Instruction

Step 1: On the main page, select [Phone Setting→T.38 Setting], enter [T.38 Setting] page, after revising information (e.g. T.38 Port of Phone1: 60100, T.38 Port of Phone 2: 60000) (See Figure 1), then click [Submit].

# T.38 (FAX) Setting

You could enable/disable the FAX function in this page.

T.38 (FAX):	⊙On (	Off
T.38 Port of Phone1:	60100	Only support one port at a time)
T.38 Port of Phone2:	60000	(1024~65533)

Submit	Reset

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by press [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.

### 5.13.1 Hotline Settings

### 5.13.1 Function

Hot Line Setting allows dialing to a pre-setted number automatically as long as pick up the phone. **2FXS provides Hot Line** 

### 5.13.2 Instruction

### Figure 1: FXS or Phone equipment

### Hot line Setting

You could set the	hot line in this page.	
Use Hot Line :	○ Enable ④ Disable	
Hot line number:		
	Submit Reset	

Use Hot Line	Default: Disable. When setting Enable, as long as pick up the		
	phone, it will dial to the pre-setted phone number automatically.		
Hot line Number	Input hot line number, can be IP Address or Phone Numbers,		
	numerals or signs are both acceptable. Maximum length is 63		
	bytes. E.g. IP Address: 192.168.1.23 or Phone Number:		
	0800024365. Maximum length is 63 bytes.		
Submit [Button]	Submit the change.		
Reset [Button]	Clear the change.		

#### Figure 2: 2FXS equipment

### Hot line Setting

You could set the hot line in this page.			
Phone Number:	Phone 1 💌		
Use hot line:	CEnable ③ Disable		
Hot line Number:			
	Submit Reset		

(圖	2)
	-,

欄位	說	明
Phone Number	Default is Phone1(Line 1); Switch the line • Provide options for	
	Phone 1 and Phone 2.	
Use Hot Line	Default: Disable. When settin	g Enable, as long as pick up the
	phone, it will dial to the pre-se	tted phone number automatically.
Hot line Number	Input hot line number, can be numerals or signs are both ac bytes. E.g. IP Address: 192.10 0800024365. Maximum length	IP Address or Phone Numbers, ceptable. Maximum length is 63 68.1.23 or Phone Number: h is 63 bytes.
Submit [Button]	Submit the change.	
Reset [Button]	Clear the change.	

#### 5.13.3 Operate Instruction

#### Example 1: Register Account or Input Hot Line Number.

Step 1: On the main page, select [Phone Setting → HotLine Setting], enter [HotLine Setting] page, after revising information (e.g. User Hot Line: Enable, Hot Line number: 22062) (See Figure 1), then 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	

(Figure 1)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.
- Step 4: After restarted the system and pick up the phone, it will dial to [22062] automatically.

#### Example 2: Dial to another IP Address directly.

Step 1: On the main page, select [Phone Setting→ Hotline Setting], enter [Hotline Setting] page, after revising information (e.g. User Hot Line: Enable, Hot Line number: 22062) (See Figure 2), then click [Submit].

### Hot line Setting

You could set the	hot line in this page.	
Use Hot Line :	⊙Enable ○Disable	
Hot line number:	192.168.1.206	
	Submit Reset	

(Figure 2)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.
- Step 4: After restarted the system and pick up the phone, it will dial to IP Address [192.168.1.206] automatically.

### 5.14.1 Alarm Settings

#### 5.14.1 Function

Alarm Settings provides the alarm function.

#### 5.14.2 Instruction

Figure Alarm Setting

#### Alarm Settings

You could set the a	larm time in this page.	E.
Alarm:	O ON ⊙ OFF	
Alarm Time:	0:0 (hh:mm)	
Current time:	2006-10-05 17:47	

Submit Reset

Alarm	Default: OFF. When setting ON, alarm function will execute.
	Duration is i minute. Stop the alarm by pick up the handset.
Alarm Time	Default: 0:0. (O hour: 0 Minute). Time format: 24
	Hours.( hh:mm)
Current time	Show the alarm time of the next time. Format 2006-10-05 17:47
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

#### 5.14.3 Operate Instruction

Step 1: On the main page, select [Phone Setting→ Alarm Setting], enter [Alarm Setting] page, after revising information (e.g. Alarm: On, Alarm Time: 12:59) (See Figure 1), then click [Submit].

#### Alarm Settings

You could set the a	larm time in this page.	
Alarm:	ON ○ OFF	
Alarm Time:	12 : 59 (hh:mm)	
Current time:	2007-02-11 12:25	
	Submit Reset	

#### (Figure 1)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.
- Step 4: At 12:59, the alarm will start to work, and last 1min. After 1 min, the alarm will stop. During ringing, pick up the phone, the alarm will stop automatically.

### **Chapter 6.1 Network Setting**

Provides Network Status, WAN Setting, LAN Setting, DDNS Setting, VLAN Setting, DMZ Setting, Virtual Server, PPTP Setting.

### 6.1.1 Status

### 6.1.1 Function

Network Status shows the current network status.

### 6.1.2 Instruction

Example 1: LAN Mode: Bridge (Bridge Mode)

#### Network Status

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

Interface 0		
Туре:	PPPoE Client	
IP:	61.228.178.5	
Mask:	255.0.0.0	
Gateway:	59.112.64.254	
DNS Server 1:	168.95.192.1	
DNS Server 2:	168.95.1.1	

#### (Figure 1)

Interface 0	Show the current status of Interface O(WAN Port)
Туре	Show the current Type.
IP	Show the current IP Address.
Mask	Show the current Subnet Mask IP Address.
Gateway	Show current Default Gateway IP Address.
DNS Server1	Show current DNS Server 1 IP Address.
DNS Server2	Show current DNS Server 2 IP Address.

### Example 2: LAN Mode: NAT (NAT Mode)

#### Network Status

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

Interface 0	
Туре:	DHCP Client
IP:	192.168.1.16
Mask:	255.255.255.0
Gateway:	192.168.1.1
DNS Server 1:	168.95.192.1
DNS Server 2:	168.95.1.1
late from d	
Internace 1	
Type:	DHCP Server
IP:	192.168.123.1
Mask:	255.255.255.0
Gateway:	192.168.123.1
DNS Server 1:	168.95.192.1
DNS Server 2:	168.95.1.1

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Interface 0	Show the current status of Interface O(WAN Port)
Туре	Show the current Type.
IP	Show the current IP Address.
Mask	Show the current Subnet Mask IP Address.
Gateway	Show current Default Gateway IP Address.
DNS Server1	Show current DNS Server 1 IP Address.
DNS Server2	Show current DNS Server 2 IP Address.
Interface 1	Show the current status of Interface 1(LAN Port)
Туре	Show the current Type.
IP	Show the current IP Address.
Mask	Show the current Subnet Mask IP Address.
Gateway	Show current Default Gateway IP Address.
DNS Server1	Show current DNS Server 1 IP Address.
DNS Server2	Show current DNS Server 2 IP Address.

### Example 3: LAN Mode: NAT + PPTP (NAT + PPTP Mode)

### Network Status

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

Interface U		
Туре:	PPPoE Client	
IP:	61.228.185.58	
Mask:	255.0.0.0	
Gateway:	59.112.64.254	
DNS Server 1:	168.95.192.1	
DNS Server 2	168.95.1.1	
D110 00101 2.		
5110 551101 L.		
Interface 1		
Interface 1 Type:	DHCP Server	
Interface 1 Type: IP:	DHCP Server 192.168.123.1	
Interface 1 Type: IP: Mask:	DHCP Server 192.168.123.1 255.255.255.0	
Interface 1 Type: IP: Mask: Gateway:	DHCP Server 192.168.123.1 255.255.255.0 192.168.123.1	
Interface 1 Type: IP: Mask: Gateway: DNS Server 1:	DHCP Server 192.168.123.1 255.255.255.0 192.168.123.1 168.95.192.1	

Interface 2		
Туре:	Fixed IP Client PPPoE	
IP:	192.168.96.242	
Mask:	255.255.255.0	
Gateway:	192.168.96.1	
DNS Server 1:	168.95.192.1	
DNS Server 2:	168.95.1.1	

#### (Figure 3)

Interface 0	Show the current status of Interface O(WAN Port)
Туре	Show the current Type.
IP	Show the current IP Address.
Mask	Show the current Subnet Mask IP Address.
Gateway	Show current Default Gateway IP Address.
DNS Server1	Show current DNS Server 1 IP Address.
DNS Server2	Show current DNS Server 2 IP Address.
Interface 1	Show the current status of Interface 1(LAN Port)
Туре	Show the current Type.
IP	Show the current IP Address.
Mask	Show the current Subnet Mask IP Address.

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Gateway	Show current Default Gateway IP Address.
DNS Server1	Show current DNS Server 1 IP Address.
DNS Server2	Show current DNS Server 2 IP Address.
Interface 1	Show the current status of Interface 2(WAN Port)
Туре	Show the current Type.
IP	Show the current IP Address.
Mask	Show the current Subnet Mask IP Address.
Gateway	Show current Default Gateway IP Address.
DNS Server1	Show current DNS Server 1 IP Address.
DNS Server2	Show current DNS Server 2 IP Address.

6.1.3 Operate Instruction Step 1: On the main page, select [Network Setting→Network Status], enter [Network Status] page, Network Status will be seen (Figure 1).

#### Network Status

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

Interface 0		
Туре:	DHCP Client	
IP:	192.168.1.16	
Mask:	255.255.255.0	
Gateway:	192.168.1.1	
DNS Server 1:	168.95.192.1	
DNS Server 2:	168.95.1.1	
Interface 1	DHCB Sower	
rype.	103 109 133 1	
IP:	192.100.123.1	
Mask:	265.255.255.0	
Gateway:	192.168.123.1	
DNS Server 1:	168.95.192.1	
DNS Server 2:	168.95.1.1	

(Figure 1)

### 6.2.1 WAN Settings

#### 6.2.1 Function

WAN Settings provide WAN Setting.

### 6.2.2 Instruction

Figure WAN Setting

### WAN Settings

You could configure the WAN settings in this page.

	O Bridge 💿 NAT
WAN Setting IP Type:	
IP:	192.168.1.3
Mask:	255,255,255,0
Gateway:	192.168.1.1
DNS Server1:	168.95.192.1
DNS Server2:	168.95.1.1
MAC:	0001a8028991
Host Name:	VOIP_PHONEO

#### Submit Reset

LAN Mode	Default: NAT. NAT is different from WAN; LAN will dispatch IP to DHCP Server automatically. When Bridge is on, WAN & LAN can
	be at the same subnet.
WAN Setting	Provide the WAN setting
ІР Туре	Default: DHCP Client, provides Fixed IP, gains 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 Sunbet Mask IP. Maximum length is
	15 bytes.
Gateway	Default: current gateway IP address; or change Gateway IP
	Maximum length is 15 bytes.
DNS Server1	Default: 168.95.192.1. Can input IP or Domain Name, format:
	xxx.xxx.xxx. If would like to gain DHCP or PPPoE Server
	automatically, please fill this blank as "0.0.0.0". Maximum length is 15 bytes.
DNS Server2	Default: 168.95.1.1. Can input IP or Domain Name, format:
	xxx.xxx.xxx. If would like to gain DHCP or PPPoE Server
	automatically, please fill 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. Numbers or strings are both acceptable.
	Length: 15 bytes.

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PPPoE Setting	Provides PPPoE Setting.
User Name	Provides user's name of PPPoE Server, can be numbers or
	strings. Length: 63 bytes.
Password	Provides password of PPPoE Server, can be numbers or strings.
	Length: 63 bytes.
Service Name	
	. Maximum length is 63 bytes.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

### 6.2.3 Operate Instruction

**Example: Check Host Name** 

Step 1: On the main page, select [Network Setting→WAN Setting], enter [WAN Settings] page, after revising information (e.g. IP Type: DHCP Client) (See Figure 1), then click [Submit].

#### WAN Settings

WAN Setting
IP Type: O Fixed IP O DHCP Client O PP
IP: 192.168.1.3
Mask: 255.255.255.0
Gateway: 192.168.1.1
DNS Server1: 168.95.192.1
DNS Server2: 168.95.1.1
MAC: 0001a8028991
Host Name: VOIP_PHONEO

(Figure 1)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.
- Step 4: To view [Host Name] by Ethereal. Please refer [Option 12Host Name= "VOIP Phone"] as follows (See Figure 2)

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(Figure 2)

### 6.3.1 LAN Settings

#### 6.3.1 Function

LAN Settings provide LAN setting, including DHCP Server function.

#### 6.3.2 Instruction

Figure LAN Setting

### LAN Settings

You could configure the LAN settings in this page.

CAN Setting		
IP:	192.168.123.1	
Mask:	255.255.255.0	
MAC:	000926002692	
DHCP Server		
DHCP Server DHCP Server:	⊙On ○Off	
DHCP Server DHCP Server: Start IP:	● On ○ Off	
DHCP Server DHCP Server: Start IP:	<ul> <li>On ○ Off</li> <li>150</li> </ul>	
DHCP Server DHCP Server: Start IP: End IP:	<ul> <li>On ○ Off</li> <li>150</li> <li>200</li> </ul>	

Submit	Reset
--------	-------

LAN Setting	Provides LAN Setting.
IP	Default: 192.168.123.1. 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	Show MAD ID information. Maximum length is 12 bytes.
DHCP Server	Provides DHCP Server information.
DHCP Server	Default: OFF. When setting 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.

#### 6.3.3 Operate Instruction

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

### LAN Settings

You could configure the LAN settings in this page.

IP:	192.168.200.1
Mask:	255.255.255.0
MAC:	00059e81b227
DHCP Server	
DHCP Server	0.0.007
DHCP Server DHCP Server:	⊙On ◯Off
DHCP Server DHCP Server: Start IP:	● On ○ Off 50
DHCP Server DHCP Server: Start IP: End IP:	On Off     50     100

Submit	Reset
	and the second se

(Figure 1)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.

# 6.4.1 DDNS settings

#### 6.4.1 Function

DDNS Settings provide the floating IP information. 3 DDNS Servers information will be found.

#### 6.4.2 Instruction

Figure	DDNS Setting
	DDNS Settings

DDNS:	⊛ On ○ Off
Host Name:	totoro609.homeftp.org
User Name:	totoro609
Password:	
E-mail Address:	totoro609@hotmail.com
DDNS Server:	www.dyndns.com
DDNS Server List:	User Input
Туре:	dyndns 💌
Wild Card:	on 💌
BACKMX:	On ⊙Off
Off Line:	O On O Off

Submit Reset

DDNS	Default: OFF. When setting 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. 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.
	Provide user input, members.dyndns.rog, <u>www.dtdns.com</u> ,
	ddns.com.cn
Туре	Default: dyndns. 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
	provider can provide Wild Card, so any issue about this, please
	contact with your provider.
BACKMX	Default: OFF. When setting ON, BACKMAX will come into run.
	Not all DNS provider can provide this service, so any issue about
	this, please contact with 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 ON, OFF Line will come into run.
	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.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

### 6.4.3 Operate Instruction

#### Example 1: Using WWW.DYNDNS.COM

Step 1: On the main page, select [Network Setting → DDNS Setting], enter [DDNS Settings] page, after revising information (e.g. DDNS: On, Host Name: totoro609.hotmeftp.org, User Name: totoro609, Password: totoro609, E-mail Address: totoro609@hotmail.com, DDNS Server: www.dyndns.com, DDNS Server List: User Input, Type: dyndns, Wild Card: on, BACKMX: off, Off Line: off) (See Figure 1), then click [Submit].

DDNS:	⊙ On ○ Off
Host Name:	totoro609.homeftp.org
User Name:	totoro609
Password:	•••••
E-mail Address:	totoro609@hotmail.com
DDNS Server:	www.dyndns.com
DDNS Server List:	User Input
Туре:	dyndns 💌
Wild Card:	on 💌
BACKMX:	On ⊙Off
Off Line:	OOn ⊙Off

#### (Figure 1)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.
- Step 4: Open DynDNS to view new IP Address of DDNS: totoro609.hotmeftp.org. e.g.: 220.136.197.74 (Figure 2)

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🛞 Dyn[	ONS					Logged In User: totoro609 My Services - My Cart - Settings - Log Out
	About	Services	Account	Support	News	
	Usir	ng our free service:	s? Consider purchasi	ng an <u>Account Upgr</u>	ade.	
My Account	Dynamic DNS <sup>SM</sup> H	losts				Add Host - Buik Update
My Services	Dynamie Dite 1			And the second se		
Account Upgrades	Hostname		Last U	pdated	IP in I	Database/DNS
Mail-lop Outbound	totoro609.dyndns.info	Wed 3	ul 12 02:45:38 2006		220.135.187.63	Details
Recursive DNS	totoro609.dyndns.org	Tue A	ug 1 00:11:34 2005		61.228.181.33	Details
SLA	totoro609.dyndns.tv	Wed 3	ul 12 02:38:03 2006		220.135.187.63	Details
Premier Support	totoro609.homeftp.org	Fri Jul	28 05:58:50 2006		220.136.197.94	Details
Add Zone Services My Hosts Add Host Services Drawnic DNS Static DNS WebHop My Wold-Spp Network Monitoring SSL Certificates Renew Services Auto Renew Settings Sync Expirations	totoro609.homelinec.org	Wed A	ug 9 08:39:25 2006	ko	219.66.36.136	Detaile
Account Settings						
Billing						
My Cart						
<u>O items</u>	_					
Search DynDNS						

(Figure 2)

#### Example 2: Using WWW.DDNS.CN

Step 1: On the main page, select [Network Setting→ DDNS Setting], enter [DDNS Settings] page, after revising information (e.g. DDNS: On, Host Name: totorocmi.ddns.com.cn, User Name: totorocmi, Password: totoro609, E-mail Address: totoro609@hotmail.com, DDNS Server List: ddns.com.cn, Type: dyndns, Wild Card: on, BACKMX: off, Off Line: off) (See Figure 1), then click [Submit].

#### **DDNS** Settings

DDNS:		
bbilot		
Host Name:	totorocmi.ddns.com.cn	
User Name:	totorocmi	
Password:	•••••	
E-mail Address:	totoro609@hotmail.com	
DDNS Server:		
DDNS Server List:	ddns.com.cn 💌 💌	
Туре:	dyndns 💌	
Wild Card:	on 🗸	
BACKMX:	◯ On ③ Off	
Off Line:	◯ On ⊙ Off	
	Submit Reset	

#### (Figure 3)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.

Step 4: Open DtDNS page to view Host Name: totorocmi, and renew IP Address (Figure 4).



(Figure 4)

#### Example 3: Using WWW.DtDNS.CN

Step 1: On the main page, select [Network Setting → DDNS Setting], enter [DDNS Settings] page, after revising information (e.g. DDNS: On, Host Name: totorocmi.dtdns.com.cn, User Name: totorocmi, Password: totoro609, E-mail Address: totoro609@hotmail.com, DDNS Server List: dtdns.com.cn, Type: dyndns, Wild Card: on, BACKMX: off, Off Line: off) (See Figure 5), then click [Submit].

#### DDNS Settings

	iguration of DDNS in this page.
DDNS:	⊙ On ◯ Off
Host Name:	totorocmi.dtdns.net
User Name:	totorocmi
Password:	
E-mail Address:	totoro609@gmail.com
DDNS Server:	
DDNS Server: DDNS Server List:	www.dtdns.com
DDNS Server: DDNS Server List: T <mark>ype:</mark>	www.dtdns.com v dyndns v
DDNS Server: DDNS Server List: T <mark>ype:</mark> Wild Card:	www.dtdns.com v dyndns v
DDNS Server: DDNS Server List: Type: Wild Card:	dyndns v
DDNS Server: DDNS Server List: Type: Wild Card: BACKMX:	dyndns v on v On Off

#### (Figure 5)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.
- Step 4: Open DtDNS page to view the new IP Address of Hostname: totorocm. E.g.: 61.228.184.142 (Figure 6)

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(Figure 6)

### 6.4.4 How to apply DDNS

Please refer file: APN\_DDNS

# 6.5.1 VLAN Settings

#### 6.5.1 Function

VLAN Settings provide Clinet information of WAN and VLAN information of LAN. Need to work with VLAN Router.

#### 6.5.2 Instruction

Figure VLAN Setting

### **VLAN Settings**

	ettings in tl	his page.	
VI AN Declary	0.0	0 or	
VLAN Packets:	OUn		
VID (802.1Q/TAG):	136	(2 ~ 4094)	
User Priority (802.1P):	0	(0 ~ 7)	
CFI:	0	//////////////////////////////////////	
NAT VLAN Setting			
NAT VLAN Setting VLAN Packets:	On	⊙ Off	
NAT VLAN Setting VLAN Packets: VID1:	On 4	<ul> <li>● Off</li> <li>(2 ~ 4094), 0-&gt; Off</li> </ul>	
NAT VLAN Setting VLAN Packets: VID1: VID2:	On 4 5	<ul> <li>● Off</li> <li>(2 ~ 4094), 0-&gt;Off</li> <li>(2 ~ 4094), 0-&gt;Off</li> </ul>	
NAT VLAN Setting VLAN Packets: VID1: VID2: VID3:	On 4 5 6	<ul> <li>Off</li> <li>(2 ~ 4094), 0-&gt;Off</li> <li>(2 ~ 4094), 0-&gt;Off</li> <li>(2 ~ 4094), 0-&gt;Off</li> <li>(2 ~ 4094), 0-&gt;Off</li> </ul>	

#### Submit Reset

VLAN Packets	Default: OFF. When setting ON, receiving VALN Packets function will be started.
VID	Default: 136. Provide Virtual LAN ID (VLAN or VID) for VLAN
	Server. Data range: 2~4097. Maximum length is 4 bytes.
User Priority	Default: 0. Set the user's priority. Data range: $(0 \sim 7)$ . Maximum length is 1 bytes.
CFI	Default: 1. 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.

#### 6.5.3 Operate Instruction

Step 1: On the main page, select [Network Setting→VLAN Setting], enter [VLAN Setting] page, after revising information (e.g. VLAN Packets: on, VID (802.1Q/TAG): 124, User Priority (802.1P):0, CFGI: 0) (See Figure 1), then click [Submit].

### VLAN Settings

You could set the VLAN	settings in t	his page.
VLAN Packets:	⊙ On	Off
VID (802.1Q/TAG):	124	(2 ~ 4094)
User Priority (802.1P):	0	(0 ~ 7)
CFI:	0	(0 ~ 1)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.

## 6.6.1 DMZ Setting

#### 6.6.1 Function

DMZ Setting provides DMZ data.

#### 6.6.2 Instruction

Figure DMZ Setting

### DMZ Setting

MZ:	🔘 On 💿 Off	
	0000	

DMZ	Default: OFF. When setting 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.

#### 6.6.3 Instruction

Step 1: On the main page, select [Network Setting→DMZ Setting], enter [DMZ Setting] page, after revising tone information (Figure 1), then click [Submit].

### DMZ Setting

You could configu	re your demilitarized zone setting in this page.			
DMZ:	⊙ On ◯ Off			
DMZ Host IP:	192.168.123.150			
	Submit Reset			

(Figure 1)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.

### 6.7.1 Virtual Server

#### 6.7.1 Function

Virtual Server Settings provides 24 sets of Virtual Server information.

#### 6.7.2 Instruction

Add Virtual

Figure Virtual Server Setting

### 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 Telent [TCP 23]. Virtual Server Page: page 1 💌 Num Enable Protocol In Port Server IP Select 0 1 2 3 4 5 6 7 Enable Selected Delete Selected Delete All Reset Add Virtual Server Server IP Protocol: TCP 🗸 Internal Port Start: Internal Port End: External Port Start: External Port End: Add Server Reset Virtual Server Default: Page 1. Page 1~Page 3 is available. Page Num Show the Number. Setting Rage: (0~23). 24 entries in total. Enable Show the status. Default: Disable. When setting Enable, this function will be started. Protocol Protocol: use tcp or udp In Port Show the address of In Port. Ex Port Show the address of Ex Port. Show the Server IP Address. Server IP Select Default: Disable. **Enable Selected** Start Enable Selected information. [Button] **Delete Selected** Execute delete selected information. [Button] Delete all information. **Delete All** [Button] Reset [Button] Clear selected information.

Add new Virtual Server Information.

Server						
Num	Input serial number. Data range: (0~23). Maximum length is 2					
	bytes.					
Server IP	Input IP information, can be IP Address or Domain Name.					
	Format: xxx.xxx.xxx. Maximum length is 15 bytes.					
Protocol	Default: TCP, use tcp or udp					
Internal Port	Defind internal Star port address. Data range: (1~65533).					
Start	Maximum length is 5 bytes.					
Internal Port End	Defind internal End port address. Data range: (1~65533).					
	Maximum length is 5 bytes.					
External Port	Defind internal Star port address. Data range: (1~65533).					
Start	Maximum length is 5 bytes.					
External Port End	Defind internal End port address. Data range: (1~65533).					
	Maximum length is 5 bytes.					
Add Server	Add new Add Server information.					
[Button]						
Reset [Button]	Clear selected information.					

#### 6.7.3 Operate Instruction

Step 1: On the main page, select [Network Setting→Virtual Setting], enter [Virtual Setting] page, after revising information (Num: 0, Server IP: 192.168.123.5, Protocol: TCP, Internal Port: 80, External Port: 80) (See Figure 1), then click [Submit].

### Virtual Server Settings

You cou (Control) 53] and	ld set your vir (TCP 21), FT Telent (TCP 2	tual servers in thi P(Data) [TCP 20 3].	s page. The usual port nu ], E-mail(POP3) [TCP 110	mbers are WEB [TCP 8 )], E-mail(SMTP) [TCP 3	80], FTP 25], DNS [UDP
Virtual	Server Page	page 1 💌			
Num	Enable Pr	otocol In	Port Ex Port	Server IP	Select
0					
1					
2					
3					
4					
5					
6					
7					
Enal	ble Selected tual Server	Delete Se	Delete All	Reset	
Server IP:		192.168.123	5		
Protoco	l:	TCP 💌			
Internal Port Start:		80	Internal Port End:	80	
External Port Start:		80	External Port End:	80	
Add S	Server Re	set			

(Figure 1)

Step 2: You have to save and reboot the system or effect the virutal server (Figure 2)
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(Figure 2)

Step 3: After adding all information, please save changing (Figure 3).

### 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 Telent [TCP 23].

Num	Enable	Protocol	In Port	Ex Port	Server IP	Select
0		TCP	80	80	192.168.123.5	
1						
2						
3						
4						
5						
6						
7						
Add Vir Server I	tual Serv	er		(		
Protoco	ł:	TCP	-			
nternal	Port Start	:	Intern	al Port End:		
niceman						

#### (Figure 3)

Step 4: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.

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# 6.8.1 PPTP Settings

#### 6.8.1 Function

PPTP Settings provide PPTP Server information. Please use LAN to enter PPTP.

#### 6.8.2 Instruction

Figure PPTP Setting

**PPTP Settings** 

You could	set the F	PTP	server	in this	page.	

PPTP:	O On ⊙ Off	
PPTP Server:		
PPTP Username:		
PPTP Password:		

Submit Reset

РРТР	Default: OFF. When setting ON, start PPTP function.
PPTP Server	Input PPTP Server information, can be IP Address or Domain
	Name. Format: xxx.xxx.xxx. Maximum length is 63 bytes.
PPTP Username	Input PPTP Server user's name, can be numerals or strings.
	Maximum length is 63 bytes.
PPTP Password	Input PPTP password, can be numerals or strings. Maximum
	length is 63 bytes.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

#### 6.8.3 Operate Instruction

Step 1: On the main page, select [Network Setting→ Network Setting→ PPTP Setting], enter [PPTP Setting] page, after revising tone information (Figure 1), then click [Submit].

#### **PPTP** Settings

PPTP:	⊙On OOff
PPTP Server:	210.243.227.204
PPTP Username:	test
PPTP Password:	

#### (Figure 1)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.
- Step 4: To view [PPTP Server] information though Ethereal (See Figure 2)

Elle Elle Elle Elle Elle Elle Elle Elle	dt View PP Time 20.355873 20.358858 20.358858 20.358858 20.358858 20.358858 20.358858 20.358858 20.359868 20.42469	Go So 61. 210 61. 21. 21. 21. 21. 21. 21. 21. 21. 21. 2	Captur Captur 228.1 248.1 248.1 248.1 248.1	e Anal) k2.129 227.204 227.204 227.204 227.204 (7) lot set Not set Not se		estinati 0, 243. 228.11 0, 243. 228.11 0, 243. 228.11 0, 243. 228.11	s Help () () () () () () () () () ()	Expre     Prote     P	ocol IPCP IPCP CCP IPCP IPCP IPCP IPCP	Sel Clea	The Apply Info configur configur configur configur configur	ation ation ation ation ation ation	C C C C C C C C C C C C C C C C C C C		1 83	×	0		
Eliter. ₽ 68 69 70 71 72 73 74 74 74 74 74 74 74 74 74 74	PP Time 20.355873 20.357359 20.358853 20.3580853 20.432595 10.4325950 10.4325950 10.4345950 10.4345950 10.4345950 10.4345950 10.4345950 10.4345950 10.4345950 10.4555950 10.45559500 10.45559500 10.45559500 10.45559500 10.45559500 10.45559500 10.45559500 10.45559500 10.455595000 10.45559500000000000000000000000000000000	Sc 61 211 61 211 211 211 211 211 211 211 2	urce 228.1 ).243. 228.1 ).243. ).243. ).243. ).243. ).243. (0007) bit: 1 gment ments	K2.129 227.204 227.204 227.204 227.204 227.204 (7) Not set Not set Not se		estinati 0, 243. .228.11 0, 243. .228.11 0, 243. .228.11 0, 243. .228.11	01 227,204 82,129 82,129 82,129 82,129 82,129 82,129	Protection	accol IPCP IPCP IPCP IPCP IPCP IPCP IPCP	Selo	ar Apply Info configur configur configur configur configur configur configur	ation ation ation ation ation ation	Request Request Reject Reject Nak Request Reduest			×	0		
Eilter: p 68 69 70 71 72 73 74 1der ≡ Fla 0.	PP Time 20.355871 20.357359 20.3588083 20.358858 20.434938 20.434938 ntificati gs: 0x00 0. = Mor- pment offe tool: 1 five tool: 1	Sk 61 210 210 210 210 0n: 00 erved 1 t frs 8 frs 8 frs 8 frs 1 64 E (0x)	Urce 228.1 ).243. 228.1 ).243. ).243. ).243. ).243. (0007 bit: gment ments	12.129 227.204 52.129 227.204 227.204 227.204 (7) 10t set Not se Not se		estinab 0.243. .228.11 0.243. .228.11 .228.11 0.243. .228.11	on 227.204 82.129 227.204 82.129 82.129 82.129	Expresented     Protect     Protect     Pro     P	DCOI IPCP IPCP IPCP IPCP IPCP IPCP IPCP	<u>C</u> lea	ar Apply Info configur configur configur configur configur configur configur	ation ation ation ation ation	Request Request Reject Request Nak Repuest						
No 68 69 70 71 72 74 74 74 74 74 74 74 74 74 74 74 74 74	Time 20.355871 20.357355 20.358081 20.358858 20.432509 20.434938 20.444938 2	SX 61 21 61 21 21 21 21 21 21 21 21 21 21 21 21 21	UTC0 .228.1 0.243. 228.1 ).243. 228.1 ).243. ).243. ).243. (0007 bft: ments	82.129 227.204 52.129 227.204 227.204 227.204 (7) 10t set Not set Not set	D 273 603 213 603 603 603	estinati 0, 243, 1, 228, 1 0, 243, 1, 228, 1 1, 228, 1 0, 243, 1, 228, 1	01 227,204 82,129 227,204 82,129 82,129 82,129 82,129	Prote PPP PPP PPP PPP PPP	DCOI IPCP IPCP CCP IPCP IPCP IPCP		Info configur Configur Configur Configur Configur Configur	ation ation ation ation ation	Request Reguest Reject Request Nak Request						
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### (Figure 2)

Step 5: After getting PPTP Server information, and would like to view data information though WEB, LAN Port [http://192.168.123.1:9999] is needed (Figure 3).

## Network Status

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

Interface 0		
Туре:	PPPoE Client	
IP:	61.228.185.58	
Mask:	255.0.0.0	
Gateway:	59.112.64.254	
DNS Server 1:	168.95.192.1	
DNS Server 2:	168.95.1.1	

Interface 1		
Туре:	DHCP Server	
IP:	192.168.123.1	
Mask:	255.255.255.0	
Gateway:	192.168.123.1	
DNS Server 1:	168.95.192.1	
DNS Server 2:	168.95.1.1	

Interface 2		
Туре:	Fixed IP Client PPPoE	
IP:	192.168.96.242	
Mask:	255.255.255.0	
Gateway:	192.168.96.1	
DNS Server 1:	168.95.192.1	
DNS Server 2:	168.95.1.1	



## Chapter 7.1 SIP Settings

Provides Service Domain , Port Settings , Code Settings , Codec ID Settings, DTMF Settings , RPort Settings , Other Settings.

## 7.1.1 Service Domain

### 7.1.1 Function

Service Domain provides 3 entries information and status.

## 7.1.2 Instruction

#### Figure 1: FXS/Phone equipment

## Service Domain Settings

You could set information of service domains in this page.

Realm		
Active:	On ⊙Off	
Display Name:		
User Name:		
Register Name:		
Register Password:		
Domain Server:		
Proxy Server:		
Outbound Proxy:		
Subscribe for MWI:	⊙ On ◯ Off	
Status:	Not Registered	

Submit Reset

#### Figure 1

Realm 1 (Default)	Default: Realm1. Please press "1*" and hang up the phone when transfer to the 1 <sup>st</sup> register number.
Active	Default: OFF. When setting ON, register account will be active.
Display Name	Display name. Can be numerals or strings. Maximum length: 31 bytes.
User Name	Display user's name. Can be numerals or strings. Maximum length: 31 bytes.
Register Name	Display Register's name. Can be numerals or strings. Maximum length: 31 bytes.
Register	Please input register password, can be numerals or strings.
Password	Maximum length: 31 bytes.
Domain Server	Input Domain Server information. Can be IP Address or Domain
	Name. Format: xxx.xxx.xxx; Maximum length is 63 bytes. If
	special Port Address is needed, please add it, e.g.:
	nat.voiptalk.org: 5065
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, e.g.:

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	nat.voiptalk.org:5065
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, e.g.:
	nat.voiptalk.org: 5065
Subscribe of MWI	Subscribe for MWI function
	Your Register SIP Proxy server must support this function.
Status	Not Register (failed.) Register (Successfully.)
Realm 2	The 2 <sup>nd</sup> register account. Please press "2*" and hang up the
	phone when transfer to the 2 <sup>nd</sup> register number.
Active	Default: OFF. When setting ON, register account will be active.
Display Name	Display name. Can be numerals or strings. Maximum length: 31
	bytes.
User Name	Display user's name. Can be numerals or strings. Maximum
	length: 31 bytes.
Register Name	Display Register's name. Can be numerals or strings. Maximum
	length: 31 bytes.
Register	Please input register password, can be numerals or strings.
Password	Maximum length: 31 bytes.
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, e.g.:
	nat.voiptalk.org:5065
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, e.g.:
	nat.voiptalk.org:5065
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, e.g.:
	nat.voiptalk.org: 5065
Subscribe of MWI	Subscribe for MWI function
	Your Register SIP Proxy server must support this function.
Status	Not Register (failed.) Register (Successfully.)
Realm 3	The 3rd register account. Please press "3*" and hang up the
	phone when transfer to the 3rd register number.
Active	Default: OFF. When setting ON, register account will be active.
Display Name	Display name. Can be numerals or strings. Maximum length: 31
	bytes.
User Name	Display user's name. Can be numerals or strings. Maximum
	length: 31 bytes.
Register Name	Usplay Register's name. Can be numerals or strings. Maximum
Degister	length: 31 bytes.
Register	Maximum longth: 21 butes
Passwuru Domain Server	Input Domain Server information. Can be ID Address or Domain
Domain Server	Name Format: xxx xxx xxx Maximum longth is 62 butce. If
	marie Turrial Address is peeded places add it a min
	special Polit Address is needed, please add it, e.g.:
	וומנ.יטוףנמוג.טרט: 2005

Proxy Server	Input Proxy Server information. Can be IP Address or Domain Name. Format: xxx.xxx.xxx; Maximum length is 63 bytes. If			
	special Port Address is needed, please add it, e.g.: nat.voiptalk.org: 5065			
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, e.g.: nat.voiptalk.org: 5065			
Subscribe of MWI	Subscribe for MWI function			
	Todi Register on Troxy server must support this function.			
Status	Not Register (failed.) Register (Successfully.)			

## Figure 2 & 3: 2-FXS equipment

## Service Domain Settings

You could set information of service domains in this page.

Service Do	main Settings
------------	---------------

You could set information of service domains in this page.

Phone No.:	ihone 1 💌	Phone No.:
Realm 1 (Default)		Realm 1 (Default)
Active:	On ⊙Off	Active:
Display Name:		Display Name:
User Name:		User Name:
Register Name:		Register Name:
Register Password:		Register Password
Domain Server:		Domain Server:
Proxy Server:		Proxy Server:
Outbound Proxy:		Outbound Proxy:
Subscribe for MWI:	On ⊛Off	Subscribe for MVVI:
Status:	Not Registered	Status:
		Dealm 2
Realm 2		Active:
Display Name:		Display Name:
Lleer Name:		User Name:
Degister Name:		Register Name:
Register Name.		Register Password
Register Password:		Domain Sever
Domain Server:		Broxy Sawar
Proxy Server:		Outhound Prove
Outbound Proxy:		Subscribe for MWI
Subscribe for MVVI:	On Off	Status:
Status.	Not registered	
Realm 3		Realm 3
Active:	On ⊙Off	Active:
Display Name:		Display Name:
User Name:		User Name:
Register Name:		Register Name:
Register Password:		Register Password:
Domain Server:		Domain Server:
Proxy Server:		Proxy Server:
Outbound Proxy:		Outbound Proxy:
Subscribe for MWI:	On ⊛Off	Subscribe for MWI:
Status:	Not Registered	Status:
	Submit Reset	
	(Figure 2)	
	,	

hone No.:	Phone 2 💌
Realm 1 (Default)	
Active:	On ⊙Off
Display Name:	
User Name:	
Register Name:	
Register Password:	
Domain Server:	
Proxy Server:	
Outbound Proxy:	
Subscribe for MWI:	On ⊙Off
Status:	Not Registered
Doalm 2	
Active:	On ⊛Off
Display Name:	
User Name:	
Register Name:	
Register Password:	
Domain Server:	
Proxy Server:	
Outbound Proxy:	
Subscribe for MVVI:	On Off
Status:	Not Registered
Realm 3	
Active:	On ⊛Off
Display Name:	
User Name:	

OOn ⊙Off Not Registered

Submit Reset

(Figure 3)

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Phone No	Default: Phone 1. Please choose mode: Phone 1 or Phone 2.
Realm 1 (Default)	The 1st register account. Please press "1*" and hang up the
	phone when transfer to the 1st register number.
Active	Default: OFF. When setting ON, register account will be active.
Display Name	Display name. Can be numerals or strings. Maximum length: 31
	bytes.
User Name	Display user's name. Can be numerals or strings. Maximum
	length: 31 bytes.
Register Name	Display Register's name. Can be numerals or strings. Maximum length: 31 bytes.
Register	Please input register password, can be numerals or strings.
Password	Maximum length: 31 bytes.
Domain Server	Input Domain Server information. Can be IP Address or Domain
	Name. Format: xxx.xxx.xxx; Maximum length is 63 bytes. If
	special Port Address is needed, please add it, e.g.:
	nat.voiptalk.org:5065
Proxy Server	Input Proxy Server information. Can be IP Address or Domain
	Name. Format: xxx.xxx.xxx; Maximum length is 63 bytes. If
	special Port Address is needed, please add it, e.g.:
	nat.voiptalk.org:5065
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, e.g.:
	nat.voiptalk.org:5065
Subscribe of MWI	Subscribe for MWI function
	Your Register SIP Proxy server must support this function.
Status	Not Register (failed.) Register (Successfully.)
Realm 2	The 2 <sup>rd</sup> register account. Please press "2*" and hang up the
Active	phone when transfer to the 2 <sup>th</sup> register number.
Active Diambas Marga	Default: OFF. When setting ON, register account will be active.
	bytes.
User Name	Display user's name. Can be numerals or strings. Maximum
	length: 31 bytes.
Register Name	Display Register's name. Can be numerals or strings. Maximum length: 31 bytes.
Register	Please input register password, can be numerals or strings.
Password	Maximum length: 31 bytes.
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, e.g.:
Drevus Comiser	nat.volptalk.org:5065
Proxy Server	Name Formation way you way in a feature length is 62 butes. If
	Name, Format, XXX,XXX,XXX, Waximum length is of bytes.
	special Polit Address is needed, please add it, e.g.:
Outhound Prove	Induvulpiank.urg. 5005
	Domain Name Format: XXX XXX XXX XXX Maximum longth is 62
	butos If special Dort Address is peeded places add it a s
	nat vointalk org: 5065
	nat.voiptalk.org: 5065

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Subscribe of MWI	Subscribe for MWI function		
	Your Register SIP Proxy server must support this function.		
Status	Not Register (failed.) Register (Successfully.)		
Realm 3	The 3rd register account. Please press "3*" and hang up the		
	phone when transfer to the 3rd register number.		
Active	Default: OFF. When setting ON, register account will be active.		
Display Name	Display name. Can be numerals or strings. Maximum length: 31 bytes.		
User Name	Display user's name. Can be numerals or strings. Maximum length: 31 bytes.		
Register Name	Display Register's name. Can be numerals or strings. Maximum length: 31 bytes.		
Register	Please input register password, can be numerals or strings.		
Password	Maximum length: 31 bytes.		
Domain Server	Input Domain Server information. Can be IP Address or Domain		
	Name. Format: xxx.xxx.xxx; Maximum length is 63 bytes. If		
	special Port Address is needed, please add it, e.g.: nat.voiptalk.org: 5065		
Proxy Server	Input Proxy Server information. Can be IP Address or Domain		
	Name. Format: xxx.xxx.xxx; Maximum length is 63 bytes. If		
	special Port Address is needed, please add it, e.g.:		
	nat.voiptalk.org:5065		
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, e.g.:		
<u> </u>	nat.voiptalk.org: 5065		
Subscribe of MWI	Subscribe for MWI function		
	Your Register SIP Proxy server must support this function.		
Status	Not Register (failed.) Register (Successfully.)		

### 7.1.3 Instruction

#### Example 1: Register SIP Proxy Port number: 5065

Step 1: On the main page, select [SIP Settings → Service Domain], enter [Service Domain Settings] page, after revising the information (e.g.: Active: On , Display Name: 888641273 , User Name: 888641273 , Register Name: 888641273 , Register Password: 1234 , Domain Server: voiptalk.org , Proxy Server: voiptalk.org , Outbound Proxy: nat.voiptalk.org:5065 , Subscribe of MWI: off) (See Figure 1), then click [Submit].

## Service Domain Settings

You could set information of service domains in this page.

Realm 1 (Default)		
Active:	⊙On ○Off	
Display Name:	888641273	
User Name:	888641273	
Register Name:	888641273	
Register Password:	•••••	
Domain Server:	voiptalk.org	
Proxy Server:	voiptalk.org	
Outbound Proxy:	nat.voiptalk.org:5065	
Subscribe for MWI:	⊙On OOff	
Status:	Registered	

#### (Figure 1)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.
- Step: 4: Back page [Service Domain Settings], and notice the register name (Figure 2), then click [Submit]

### Service Domain Settings

You could set information of service domains in this page.

Active:	⊙ On ◯ Off	
Display Name:	888641273	
User Name:	888641273	
Register Name:	888641273	
Register Password:	•••••	
Domain Server:	voiptalk.org	
Proxy Server:	voiptalk.org	
Outbound Proxy:	nat.voiptalk.org:5065	
Subscribe for MWI:	⊙On ◯Off	



#### **Example 2: Start Subscribe for MWI**

Step 1: On the main page, select [SIP Settings→ Service Domain], enter [Service Domain Settings] page, start Subscribe for MWI, (e.g.: Subscribe for MWI: on), then click [Submit] (Figure 3).

## Service Domain Settings

You could set information of service domains in this page.

Realm 1 (Default)		
Active:	⊙ On ◯ Off	
Display Name:	888641273	
User Name:	888641273	
Register Name:	888641273	
Register Password:	•••••	
Domain Server:	voiptalk.org	
Proxy Server:	voiptalk.org	
Outbound Proxy:	nat.voiptalk.org:5065	
Subscribe for MWI:	On ⊙Off	
Status:	Not Registered	
Realm Z	0.0m 0.0f	
Active.		
Display Name:	900000310	
User Name:	900000310	
Register Name:	9000000310	
Register Password:	•••••	
Domain Server:	sip.peercall.com	
Proxy Server:	sip.peercall.com	
Outbound Proxy:	sip.peercall.com	
Subscribe for MWI:	⊙On Off	
Status:	Not Registered	

(Figure 3)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.
- Step: 4. After rebooting the system, and call to another equipment, please check the [Ethereal] and [Request: Subscribe] information (Figure 4).

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WM PKT.cap	Ethereal		
Eile Edit View	Go Capture Analy	ze Statistics Help	
	* 6 6 ×	* 2 2 4	+ + + 7 ± 🗐 🖩 Q Q Q 🗹 🔐 M 🖽 🛠 💆
Eilter:			Expression Clear Apply
No. Time	Source	Destination	rotoco info
1 0.000000	210.62.149.22	210.62.149.61	SIP Request: REGISTER sip:210.62.149.61
3 0.1119324	210.62.149.22	310.62.149.61	STP Tequest: SUBSCRIBE ST0:7900510.62.140.61;transport-UDP
4 0.148514 5 0.152680	210.62.149.61	210.62.149.22	SIP Status: 200 OK SIP Request: NOTIFY sip:2210/210.62.149.22:5060:transport=UDP
6 0.211596	210.62.149.22	210.62.149.61	SIP Status: 200 OK SID BANNART: NOTICE (10:2218210 62 149 22:5060:Transportwing)
8 7.178172	210.62.149.22	210.62.149.226	SIP Status: 200 OK
9 34.135578 10 34.144814	210.62.149.61 210.62.149.22	210.62.149.22 210.62.149.61	SIP Request: NOTIFY S1p:2219210.62.149.22:5060;transport+UDP SIP Status: 200 OK
11 39.475455	210.62.149.61	210.62.149.22	SIP Request: NOTIFY s1p:2210210.62.149.22:5060;transport=UDP
User Datagram I Source port: Destination p Length: 496 Checksum: Date Session Initiat	Protocol, Src Port: 5060 (5060) 50rt: 5060 (5060) 5995 [correct] tion Protocol	5060 (5060), Dst P	ant: 5860 (5860)
Method: Sup [Resent Pac ] Message Head via: SLP/2, Max-former ] To: 211 of ] To: 211 of ] SLP to al ] From: 221 ] SLP to al ] SLP to al ] SLP to al ] SLP to al ] SLP to al ] SLP to al ] SLP to al ] SLP to al ] SLP to al ]	bGCAIDE Ket: False] TO DE 210.62.149.2 B: 70 DE 2010.62.149.2 B: 70 DE 2010.62.149.2 Idress: stp:2218210 address: stp:2218210 address: stp:221821 address: stp:221821 Diazfordstress stp:2218210 Diazfordstress diazfordstress	2:5060; branch-29H64 1- 62:149, 61 62:149, 61 62:149, 61 41ff102e8010, 62:149 5300; stransport- 22:5060; transport- 10:62:149, 22; 1960; tr 10:2216210, 62:149, 22;	skd91e9230477777ce;rport .22 anspart=uDP> oP> j3060
CONCENT. CCH 0020 95 3d 13 C4 0030 06 22 45 20 0040 66 32 26 31 0050 67 77 71 30 0060 0a 56 69 61 0070 50 20 32 31 0080 0a 56 00 36 30 0080 0a 56 00 36 30	18         24         01         FO         d9         9           18         24         01         FO         d9         9           34         39         26         36         31         31           34         39         26         36         31         31           35         34         50         20         77         41           34         20         53         49         50         2           30         26         36         32         26         37           30         02         72         51         96         50         2           30         02         72         51         96         50         2           30         02         72         51         96         50         2	3         3         42         33         43         31           3         40         32         31         30         26           5         47         61         66         73         70           5         5         24         72         76         70           5         5         24         72         76         30         10           5         24         72         76         30         10         15         44           14         39         26         32         32         34         35         44           15         30         76         39         66         37         39         66         47           24         0         7         39         66         47         39         66         47           24         0         7         39         66         47         39         68         47           24         0         7         39         66         47         39         68         47	10000000000000000000000000000000000000

(Figure 4)

# 7.2.1 Port Settings (SIP and RTP Setting)

#### 7.2.1 Function

Port Settings provide SIP and RTP port number information.

#### 7.2.2 Instruction

Figure 1: FXS (included FXS+FXO) or Phone (included FXS+FXO)

## Port Settings

You could set the port number in this page.		
SIP Port:	5060	(0~65533) (Set 0 for auto, range as bellow)
RTP Port:	20000	(0~65533) (Set 0 for auto, range as bellow)
SIP Port Range:	10000	<mark>~</mark> 10999 (1024~40000)
RTP Port Range:	20000	~ 21999 (1024~40000)



### Figure 1

	ligare i
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 ; Setting the range of SIP Port • Only
	numerals are accepted. Data range: (1024~40000). Maximum
	length: 5 bytes.
RTP Port Range	Default: 20000 ~ 21999 ; Setting the range of RTP Port • Only
	numerals are accepted. Data range: (1024~40000). Maximum
	length: 5 bytes.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

Figire 2: 2FXS

## Port Settings

You could set the port number in this page.

Phone 1		
SIP Port:	5060	(0~65533) (0->auto)
RTP Port:	20000	(0~65533) (0->auto)
SIP Port Range:	10000	~ 10999 (1024~40000)
RTP Port Range:	20000	~ 21999 (1024~40000)
Phone 2		
SIP Port:	5062	(0~65533) (0->auto)
RTP Port:	20100	(0~65533) (0->auto)
SIP Port Range:	11000	~ 12999 (1024~40000)
RTP Port Range:	22000	~ 23999 (1024~40000)

Submit Reset

Figure 2

Default: 5060; Display the SIP Port of Phone 1. Only numerals
are accepted, data range (10~65533). Maximum length: 5
bytes.
Default: 60000; Display the RTP Port of Phone 1. Only numerals
are accepted, data range (10~65533). Maximum length: 5
bytes.
Default: 10000 ~ 10999 ; Setting the range of SIP Port of Phone
1 • Only numerals are accepted. Data range: (1024~40000).
Maximum length: 5 bytes.
Default: 20000 ~ 21999 ; Setting the range of RTP Port of Phone
1 • Only numerals are accepted. Data range: (1024~40000).
Maximum length: 5 bytes.
Default: 5062; Display the SIP Port of Phone 2. Only numerals
are accepted, data range (10~65533). Maximum length: 5
bytes.
Default: 60100; Display the RTP Port of Phone 2. Only numerals
are accepted, data range (10~65533). Maximum length: 5
bytes.
Default: 11000 ~ 12999 ; Setting the range of SIP Port of Phone
2 • Only numerals are accepted. Data range: (1024~40000).
Maximum length: 5 bytes.
Default: 22000 ~ 23999 ; Setting the range of RTP Port of Phone
2 • Only numerals are accepted. Data range: (1024~40000).
Maximum length: 5 bytes.
Submit the change.
Clear the change.

## 7.2.3 Operate Instruction

Step 1: On the main page, select [SIP Settings → Port Settings], enter [Port Settings] page, after revising the information (e.g.: SIP Port: 5060 , RTP Port: 6000) (See Figure 1) then click [Submit].

## Port Settings

You could set the port no	umber in thi	s page.
SIP Port:	5060	(0~65533) (Set 0 for auto, range as bellow)
RTP Port:	25000	(0~65533) (Set 0 for auto, range as bellow)
SIP Port Range:	10000	~ 10999 (1024~40000)
RTP Port Range:	20000	~ 21999 (1024~40000)
	Submit	Reset



- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.

# 7.3.1 Codec Settings

## 7.3.1 Function

Code Settings provide Codec priority, RTP Packet Length, Voice VAD function..**iLBC** and G.723 cannot exist at the same time. **iLBC** only can support Phone equipment now.

#### 7.3.2 Instruction Figure 1: Without iLBC function

# Codec Settings

You could set the codec settings in this page.

Codec Priority 1:	G.711 u-law 💌
Codec Priority 2:	G.711 a-law 💌
Codec Priority 3:	G.723 💌
Codec Priority 4:	G.729 💌
Codec Priority 5:	G.726 - 16 💌
Codec Priority 6:	G.726 - 24 💌
Codec Priority 7:	G.726 - 32 💌
Codec Priority 8:	G.726 - 40 💌
Codec Priority 9:	GSM 💌
RTP Packet Length	
C 711 9 C 700	20 ms 💌
0.711 & 0.725.	
G.723:	30 ms 💌
G.723:	30 ms 💌
G.723: G.723 5.3K	30 ms 💌
G.723 5.3K G.723 5.3K	30 ms ♥ On ⊙Off
G.723: G.723 5.3K G.723 5.3K:	30 ms ♥
G.723: G.723 5.3K G.723 5.3K: Voice VAD	30 ms ♥

Submit Reset

Figure 1

Codec Priority	Set the Codec Priority.
Codec Priority 1	Default: G.711 u-law; Codec Priority 1. Provides No 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: GSM; Codec Priority 3.
Codec Priority 4	Default: G.729; Codec Priority 4.
Codec Priority 5	Default: G.726-16; Codec Priority 5.
Codec Priority 6	Default: G.726-24; Codec Priority 6.
Codec Priority 7	Default: G.726-32; Codec Priority 7.
Codec Priority 8	Default: G.726-40; Codec Priority 8.
Codec Priority 9	Default: GSM; Codec Priority 9.
RTP Packet	Provides RTP Packet Length information.
Length	

Default: 20 ms; G.711 & G.729 Packet length. Provides 10ms,
20ms , 30ms , 40ms , 50ms , 60ms , 70ms , 80ms , 90ms mode.
Default: 30 ms; G.723 Packet Length. Provides 30ms, 60ms,
90ms mode.
Provide G.723 5.3K information.
Default: Off; G.723 5.3K function. When setting ON, 5.3K
function will be active. Provides ON and OFF mode.
Provide Voice VAD information.
Default: OFF. When setting ON, (Voice Active Detection. VAD)
will be active, provides ON and OFF mode.
Submit the change.
Clear the change.

## Figure 2: With iLBC function

# Codec Settings

You could set the codec settings in this page.

Codec Priority		
Codec Priority 1:	G.711 u-law	*
Codec Priority 2:	G.711 a-law	*
Codec Priority 3:	GSM	*
Codec Priority 4:	G.729	*
Codec Priority 5:	G.726 - 16	*
Codec Priority 6:	G.726 - 24	*
Codec Priority 7:	G.726 - 32	*
Codec Priority 8:	G.726 - 40	*
Codec Priority 9:	iLBC	*
	101	
RTP Packet Length		
G.711 & G.729:	20 ms 💌	
iLBC:	30 ms 💌	
Voice VAD		
Voice VAD:	On ⊙Of	f
/oice VAD:	On ⊙Of	f

Submit Reset

Fia	ure	2
110		~

Codec Priority	Provide the Codec Priority.
Codec Priority 1	Default: G.711 u-law; Codec Priority 1. Provides No used,
	G.711u-law , G.711a-law , G.279 , G.726–16 , G.726–24 ,
	G.726-32, G.726-40, iLBC mode.
Codec Priority 2	Default: G.711a-law; Codec Priority 2.
Codec Priority 3	Default: G.729; Codec Priority 4.
Codec Priority 4	Default: G.726-16; Codec Priority 5.
Codec Priority 5	Default: G.726-24; Codec Priority 6.
Codec Priority 6	Default: G.726-32; Codec Priority 7.
Codec Priority 7	Default: G.726-40; Codec Priority 8.
Codec Priority 8	Default: iLBC ; Codec Priority 9.
RTP Packet	Provides RTP Packet Length information.
Length	

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; iLBC Packet Length; provides 20ms and 30ms
	mode.
Voice VAD	Provide Voice VAD information.
Voice VAD	Default: OFF. When setting ON, (Voice Active Detection. VAD)
	will be active, provides ON and OFF mode.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

### 7.3.3 Operate Instruction

Step 1: On the main page, select [SIP Settings→ Code Settings], enter [Code Settings] page, after revising the information (e.g.: Codec Priority 1: G.729, Priority2: 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:G.711 & G.279: 60ms, iLBC: 30ms, Voice VAD: on) (See Figure 1), click [Submit].

### Codec Settings

You could set the codec settings in this page.

Codec Priority		
Codec Priority 1:	G.729	*
Codec Priority 2:	G.711 a-law	~
Codec Priority 3:	G.711 a-law	*
Codec Priority 4:	iLBC	*
Codec Priority 5:	G.726 - 16	*
Codec Priority 6:	G.726 - 24	~
Codec Priority 7:	G.726 - 32	*
Codec Priority 8:	G.726 - 40	~
Codec Priority 9:	GSM	*
<b>RTP Packet Length</b>		
G.711 & G.729:	60 ms 💌	
iLBC:	30 ms 💌	
Voice VAD		
Voice VAD:	⊙On OOff	
	Submit	Res

#### (Figure 1)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.
- Step 4: After rebooting, and call to equipment, the new Codec mode will be adopted.

# 7.4.1 Codec ID Settings

### 7.4.1 Function

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

## 7.4.2 Instruction

### Figure 1: Without iLBC function

## Codec ID Setting

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

Codec Type	ID		Default Value	
G726-16 ID:	23	(95~255)	23	
G726-24 ID:	22	(95~255)	22	
G726-32 ID:	2	(95~255)	2	
G726-40 ID:	21	(95~255)	21	
RFC 2833 ID:	101	(95~255)	☑ 101	



#### Figure 1

Codec Type	Display the value of Codec ID information. Provides G726-16,
	G726-24, G726-32, G726-40, RFC2833, iLBC information.
G726-16 ID	Display G726-16 ID information.
ID	Display the current ID: 23. When changing the ID, please close
	(Defaul 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.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

### Figure 2: With iLBC function

## Codec ID Setting

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

Codec Type	ID		Default Value
G726-16 ID:	23	(95~255)	23
G726-24 ID:	22	(95~255)	22
G726-32 ID:	2	(95~255)	2
G726-40 ID:	21	(95~255)	21
RFC 2833 ID:	101	(95~255)	101
LBC ID:	97	(95~255)	97

#### Submit Reset

#### Figure 2

Codec Type	Display the value of Codec ID information. Provides G726-16,
G726-16 ID	Display G726-16 ID information
ID	Display the current ID: 23. When changing the ID, please close (Defaul 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.

## 7.4.3 Operate Instruction

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

## Codec ID Setting

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

Codec Type	ID		Default Value
G726-16 ID:	23	(95~255)	23
G726-24 ID:	22	(95~255)	22
G726-32 ID:	2	(95~255)	2
G726-40 ID:	21	(95~255)	21
RFC 2833 ID:	96	(95~255)	101
iLBC ID:	97	(95~255)	97

Submit Reset

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.

<sup>(</sup>Figure 1)

# 7.5.1 DTMF Settings

#### 7.5.1 Function

DTMF Setting provides three kinds of DTMF modes:  $\mathsf{RFC2833}$  , In Band DTFM , Send DTMF SIP Info.

### 7.5.2 Instruction

Figure DTMF Setting

#### DTMF Setting

You could set the DTMF setting in this page.

RFC 2833		
) Inband DTMF		
Send DTMF SIP Info		

Submit Reset

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

## 7.5.3 Operate Instruction

#### Example1: RFC2833

Step 1: On the main page, select [SIP Settings→DTMF Settings], enter [DTMF Setting] page, after revising the information (e.g.: RFC2833) (See Figure 1), click [Submit].

### DTMF Setting

ou could set the Drivin setting in this page.	
• RFC 2833	
O Inband DTMF	
Send DTME SIP Info	

#### (Figure 1)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.
- Step: 4 After rebooting, call to another equipment, and press DTMF (e.g.:222); please check [Ethereal] Packet and [RTP EV , Payload Type=RTP Event , DTMF xx] column (See Figure 2)

User's Guide

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297 9.560966	192.1	68.1.7		19	92.16	8.1.7	06	R	TP EV	Payl	oad	type-	RTP EV	ent.	DTMF	Two	2										
299 9.561186	192.1	68.1.2		19	92.10	8.1.	106	R	TP EV	Payl	oad	type=	RTP EV	ent,	DTMF	Two	2										
300 9.561261 301 9.561316	192.1	58.1.2 58.1.7		19	92.16 92.16	8.1.2	06	R	IP EV	Payl	oad	type=	RTP EV	ent.	DTMF	Two Two	2										
302 9.561426	192.1	68.1.2 68.1.1		19	92.16 92.16	8.1.2	06	R	P EV	Payl	oad	type=	RTP E	ent.	DTMF	Two	2 0	(bne									
304 9.561634	192.1	68.1.2		19	92.16	8.1.2	06	R		Payl	oad	type-	RTP EN	ent.	DTMP	Two	2 0	nd)									
306 9.570028	192.1	68.1.7	06	19	92.16	8.1.7	00	R	P	Payle	oad	type=	ITU-T	G. 71	1 PCM	IA, SS	RC=2	85867	6880	, se	q=919	, T1	me=19	9760			
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(Figure 2)

#### Example2: InBand DTMF

Step 1: On the main page, select [SIP Settings→DTMF Settings], enter [DTMF Setting] page, after revising the information (e.g.: InBand DTMF) (See Figure 3), click [Submit].

### DTMF Setting

ou could set the Dirwin setting in this page.	
ORFC 2833	
Inband DTMF	
Send DTME SIP Info	

#### (Figure 3)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while
- Step 4: After rebooting, 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 (Figure 4).

User's Guide

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302 6.829153 303 6.837521	192.168.1.206 192.168.1.2	192.168.1.2 192.168.1.206	RTP Payload type=ITU-T G.711 PCMA, 55RC=3910402853, Seq=935, Time=22560 RTP Payload type=ITU-T G.711 PCMA, 55RC=2440658488, Seq=16332, Time=4940347	
304 6.849123	192.168.1.206	192.168.1.2	RTP Payload type=ITU-T G.711 PCMA, SSRC=3910402853, Seq=936, Time=22720 RTP Payload type=TTU-T G.711 PCMA, SSRC=3940658488, Seq=936, Time=4640507	
306 6.869145	192.168.1.206	192.168.1.2	RTP Payload type=ITU-T G.711 PCMA, SSRC=3910402853, Seq=937, Time=22880	
307 6.877534	192.168.1.2	192.168.1.206	RTP Payload type=ITU-T G.711 PCMA, SSRC=2440658488, Seq=16334, Time=4940667	
309 6.897545	192.168.1.2	192.168.1.206	RTP Payload type=ITU-T G.711 PCMA, SSRC=2440658488, Seq=16335, Time=4940827	
310 6.909129	192.168.1.206	192.168.1.2	RTP Payload type=ITU-T G.711 PCMA, 55RC=3910402853, Seq=939, Time=23200	
312 6.929115	192.168.1.206	192.168.1.2	RTP Payload type=ITU-T G.711 PCMA, SSRC=3910402853, Seq=10350, Time=390987 RTP Payload type=ITU-T G.711 PCMA, SSRC=3910402853, Seq=940, Time=23360	
313 6.937882	192.168.1.2	192.168.1.206	RTP Payload type=ITU-T G.711 PCMA, SSRC=2440658488, Seq=16337, Time=4941147	
314 6.9491/5	192.168.1.200	192,168,1,206	RTP Payload type=ITU=T G.711 PCMA, SSRC=3910402853, Sed=941, Time=23520 RTP Payload type=ITU=T G.711 PCMA, SSRC=2440658488, Sed=16338, Time=4941307	
316 6.969101	192.168.1.206	192.168.1.2	RTP Payload type=ITU-T G.711 PCMA, SSRC=3910402853, Seq=942, Time=23680	
317 6.977560	192.168.1.2	192.168.1.206	RTP Payload type=ITU-T G.711 PCMA, SSRC=2440658468, Seq=16339, Time=4941467 RTP Payload type=ITU-T G.711 PCMA, SSRC=3010402952, Seq=942, Time=23940	
319 6.997540	192.168.1.2	192.168.1.206	RTP Payload type=ITU-T G.711 PCMA, 55RC=2440658488, Seg=16340, Time=4941627	
320 7.009160	192.168.1.206	192.168.1.2	RTP Payload type=ITU-T G.711 PCMA, SSRC=3910402853, Seg=944, Time=24000	
321 7.017587	192.168.1.2	192.168.1.206	RTP Payload type=ITU-T G.711 PCMA, SSRC=2440658488, Seq=16341, Time=4941787 RTP Payload type=ITU-T G.711 PCMA, SSRC=3910402853, Seq=945, Time=24160	
323 7.037513	192.168.1.2	192.168.1.206	RTP Payload type=ITU-T G.711 PCMA, 55RC=2440658488, Seg=16342, Time=4941947	
324 7.049089	192.168.1.206	192.168.1.2	RTP Payload type=ITU-T G.711 PCMA, SSRC=3910402853, Seq=946, Time=24320	
326 7.069112	192.168.1.206	192.168.1.2	RTP Payload type=ITU-T G.711 PCMA, 55RC=3910402853, 5eq=10.45, Time=24480	
327 7.077500	192.168.1.2	192.168.1.206	RTP Payload type=ITU-T G.711 PCMA, 55RC=2440658488, Seq=16344, Time=4942267	
328 7.089083	192.108.1.200	192.168.1.2	RTP Payload type=ITU-T G.711 PCMA, SSRC=3910402853, Sed=948, Time=24040 RTP Payload type=ITU-T G.711 PCMA, SSRC=2440658488, Sed=16345, Time=4042427	
330 7.109106	192.168.1.206	192.168.1.2	RTP Payload type=ITU-T G.711 PCMA, SSRC=3910402853, Seq=949, Time=24800	
331 7.117739	192.168.1.2	192.168.1.206	RTP Payload type#ITU-T G.711 PCMA, 558C#2440658488, Seg#16346, Time#4942587 RTP Payload type#ITU-T G.711 PCMA, 558C#3010402853, Seg#16346, Time#4942587	
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(Figure 4)

#### Example3: Send DTMF SIP Info

Step 1: On the main page, select [SIP Settings→DTMF Settings], enter [DTMF Setting] page, after revising the information (e.g.: Send DTMF SIP info) (See Figure 5), click [Submit].

## DTMF Setting

You could set the DTMF setting in this page.	
ORFC 2833	
O Inband DTMF	
Send DTMF SIP Info	
Submit Reset	

(Figure 5)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while
- Step 4: After rebooting, call to another equipment, and press DTMF (e.g.:111); please check [Ethereal] Packet and [SIP , Request: INFO SIP: xxxx] column (See Figure 6)

User's Guide

Intitled) - E	thereal																	
Edit View	Go Cap	ture Analy	ze S	Statistics	5 Help													
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(Figure 6)

# 7.6.1 RPort Settings

#### 7.6.1 Function

RPort Setting provides RPort Setting.

# 7.6.2 Instruction

Figure 1: FXS or Phone equipment

## **RPort Setting**

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

RPort: On Off

Submit Reset

Figure 1

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

#### Figure 2: 2FXS equipment

### **RPort Setting**

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

RPort of Phone1:	⊙ On O Off
RPort of Phone2:	⊙On Off

Submit Reset

Figure 2

Default: On When setting ON PPort settings will be active	
belaut. On. when setting ON, it of t settings will be detive.	
Provides ON and OFF modes	
Default: On. When setting ON, RPort settings will be active.	
Provides ON and OFF modes	
Submit the change.	
Clear the change.	

### 7.6.3 Operate Instruction

Step 1: On the main page, select [SIP Settings→RPort Settings], enter [RPort Setting] page, after revising the information (e.g.: RPort: on) (See Figure 3), click [Submit].

User's Guide

RPort	Setting
-------	---------

You could er	nable/disable the RPort setting in this page.	
RPort:	⊙ On ◯ Off	
	Submit Reset	

(Figure 3)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while
- Step: 4 After rebooting, and call to another equipment, please check [Ethereal] Packet and [Message Hearer] which tag with "received" and "rport" in "Via" column, that is used for recording IP Address and Port Number (See Figure 4).



(Figure 4)

# 7.7.1 Other Settings

### 7.7.1 Function

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

# 7.7.2 Instruction

# Figure 1: FXS or Phone equipment

## Other Settings

You could set other settings in this page.		
Hold by RFC:	◯ On ④ Off	
Voice QoS (Diff-Serv):	40 (0~63)	
SIP QoS (Diff-Serv):	40 (0~63)	
SIP Expire Time:	60 (15~86400 sec, 0=define by Server)	
Use DNS SRV:	◯ On ④ Off	
Send Keep Alives Packet:	◯ On ⊙ Off	
Keep Alives Period:	60 (15~250 sec)	
Jitter Buffer:	1 (0~250 packets)	
SIP Server type:	General 💌	
SIP VID (VLAN):	0 (2~4094, 0:disabled)	
RTP VID (VLAN):	0 (2~4094, 0:disabled)	

Submit Reset

#### (Figure 1)

Hold by RFC	Default: Off. When setting ON, Hold by RFC function will be
	active. Provides ON and OFF mode.
Voice QoS	Default: 40; Only numerals are accepted. Data range: (0~63).
(Diff-Serv)	Maximum length is 2 bytes.
SIP QoS	Default: 40; Only numerals are accepted. Data range: (0~63).
(Diff-Serv)	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 ON, DNS SRV will be used to search host
	information. Provides ON and OFF mode.
Keep Alives	????
Period	
Jitter Buffer	????
SIP Server Type	Default to General (normal); setup registred SIP server type.
	General (normal), Asterisk, BroadWorks, Nortel, Xener, Vodtel.
SIP VID (VLAN)	Default to 0; SIP VLAN ID function. To setup SIP VLAN ID
	function; Only numbers can be inputted. The segment for
	information setup is (0~4094), number length is 2 digits.
	0: default to Off/inactivated.
RTP VID (VLAN)	Default to 0; RTP VLAN ID function. To setup SIP VLAN ID
	function; only numbers can be inputted. The segment for
	information setup is (0~4094), number length is 2 digits.
	0: default to Off/inactivated.
Submit [Button]	Submit the change.

User's Guide

Reset [Button]	Clear the chang	e.
Figure 2: 2FXS equipm	ent	
	Other Settings	
	You could set other settings in thi	s page.
	Held by DEC of Discosts	0.0.007
	Hold by RFC of Phone2:	On ⊙Off
	Voice QoS (Diff-Serv):	40 (0~63)
	SIP QoS (Diff-Serv):	40 (0~63)
	SIP Expire Time:	60 (15~86400 sec, 0=define by Server)
	Use DNS SRV:	◯ On ③ Off
	Send Keep Alives Packet:	◯ On ④ Off
	Keep Alives Period:	60 (15~250 sec)
	Jitter Buffer:	1 (0~250 packets)
	SIP Server type:	General 💌
	SIP VID (VLAN):	0 (2~4094, 0:disabled)
	RTP VID (VLAN):	0 (2~4094, 0:disabled)
		Submit Reset

#### (Figure 2)

Hold by RFC of Phone1	Default: Off. When setting ON, Hold by RFC of phone 1 will be active. Provides ON and OFF modes.
Hold by RFC of Phone2	Default: Off. When setting ON, Hold by RFC of phone 2 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 ON, DNS SRV will be used to search host information. Provides ON and OFF mode.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

## 7.7.3 Operate Instruction

Example1: Start Hold by RFC

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

## Other Settings

Hold by RFC:	⊙ On Off
Voice QoS (Diff-Serv):	40 (0~63)
SIP QoS (Diff-Serv):	40 (0~63)
SIP Expire Time:	60 (15~86400 sec)
Use DNS SRV:	On ⊙Of

(Figure 1)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while
- Step 4: After rebooting, and call to another equipment, press [Flash], hold this call. Hold function change to "sendonly" even. Please refer to the following picture, column [[Media Attribute (a): sendonly] (See Figure 2)

RE2100_HOLD_InroughGW.cap - Ethereal	
Eile Edit View Go Capture Analyze Statistics Help	
製工業 (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	> * * 7 2 🗐 🗉 ( Q, Q, Q, 17 ) 👹 🕅 🎬 X   🔯
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7 3.053721 10.56.9.123 10.56.9.225 8 3.058694 10.56.9.225 10.56.9.123	SIP Status: 200 KK, with session description SIP/SD Status: 200 OK, with session description SIP Request: 4K, sin:S000010, 56, 9, 123: 5060
9 3.114462 10.56.9.227 10.56.9.126 10 3.450159 10.56.9.126 10.56.9.227	SIP/SD Status: 200 OK, with session description SIP Request: ACK sip:95000010.56.9.227:25060
11 9.012329 10.56.9.126 10.56.9.227 12 9.013707 10.56.9.227 10.56.9.126	SIP/SD Request: INVITE sip:95000010.56.9.227:25060, with session description SIP Status: 100 Trying
13 9.054404 10.56.9.227 10.56.9.126 14 9.439802 10.56.9.126 10.56.9.227	SIP/SD Status: 200 OK, with session description SIP Request: ACK sip:95000010.56.9.227:25060
15 17.793257 10.56.9.126 10.56.9.227 16 17.797676 10.56.9.227 10.56.9.126	SIP/SD Request: INVITE stp:95000610.56.9.227:25060, with session description SIP Status: 100 Trying
17 17.803246 10.56.9.227 10.56.9.126 18 18.214460 10.56.9.126 10.56.9.227 10 24 40255 10.56.9.123 10.56.9.227	SIP/SD Status: 200 OK, with session description SIP Request: ACK s1p:95000010.56.9.227:25060 STP/SD Senuest: TAUTE S1n:2275010010.56.9.227:25060 with session description
20 23.488783 10.56.9.225 10.56.9.123 21 23.492714 10.56.9.225 10.56.9.123	SIP Status: 100 Trying SIP/S0 Status: 200 ok, with session description
SIP CONTACT ADDRESSI SIDISOUDDID.36.9.123150	50 A
Content-Type: application/sdp	
Content-Length: 137	
Session Description Protocol Session Description Protocol Version (v): 0	
When owner (Creator, Session Id (o): - 56892 0 IN IP4 : Owner Username: -	10.56.9.123
Session ID: 56892 Session version: 0	
Owner Network Type: IN Owner Address Type: IP4	
owner Address: 10.56.9.123 Session Name (s): SIP CALL	
Connection Network Type: IN	
Connection Address: 10.56.9.123	
Session Start Time: 0	
Bedia Description, name and address (m): audio 6 Media Tume: audio	0000 RTP/AVP 0
Media Port: 60000	
Media Format: ITU-T G.711 PCMU Media Attribute (a): rtrman:0 PCMU/8000	
Media Attribute Fieldname: rtpmap Media Attribute value: 0 PCMU/8000	
Media Attribute (a): sendonly	·
0240 49 20 20 43 41 42 42 00 03 53 30 49 48 20 49 50 0250 34 20 31 30 28 35 36 28 39 28 31 32 33 0d 0a 74 0260 3d 30 20 30 0d 0a 6d 3d 61 75 64 69 Af 20 36 30	IP CALL, C=IN IP 4 10.56, 9.123t = 0ms audio 60
0270 30 30 30 20 52 54 50 2F 41 56 50 20 30 0d 0a 61 0280 3d 72 74 70 6d 61 70 3a 30 20 50 43 4d 55 2F 38	000 RTP/ AVP 0a +rtpmap: 0 PCMU/8
0290 30 30 30 0d 0a <u>51 3d 73 65 6e 64 6f 6e 6c 79</u> 0d 02a0 0a	000 <u>s=s_endon1y</u> .
Media Attribute (sdp.media_attr), 10 byte P: 39 D: 39 M: 0	

(Figure 2)

#### Example2: Without Use DNS SRV

Step 1: Please check [Ethereal] Packet and [Standard query response A 220.128.207.131] Packet information (See Figure 3)

User's Guide

O.         Time         Source           51 44 00458         1000000         10000000           51 44 00458         10000000         10000000           51 44 00458         10000000         10000000           51 44 00458         10000000         10000000           51 44 00458         10000000         10000000           51 44 00458         10000000         10000000           51 44 00458         20000000         10000000           51 14 0000000         2000000000         1000000000           51 14 00000000         1000000000000000000000000000000000000	CO Destination CO Destination	Popression	Clear Apply Clear	Recrait acon # 200-228 Dece # A 200-228 Dece sed (0 bindings) # A 300-461 100-10 # A 300-461 100-10	▲ M B2 ★ 6 31 0 A 207.46.232.199	3	
Elber   40   dms No. Trime Source 31   37.65(22 - 10.3)(56) 33   4.402043 - 20.3)(56) 35   4.402043 - 20.3)(52) 35   4.402043 - 20.3)(52) 35   4.402241 - 20.3)(52) 35   4.402241 - 20.3)(52) 35   4.402241 - 20.3)(52) 35   4.402241 - 20.3)(52) 35   4.402241 - 20.3)(52) 35   4.402241 - 20.3)(52) 35   4.402241 - 20.3)(52) 35   4.402241 - 20.3)(52) 35   4.402241 - 20.3)(52) 35   4.402241 - 20.3)(52) 35   4.402241 - 20.3)(52) 35   4.402241 - 20.3)(52) 35   4.402241 - 20.3)(52) 35   4.402241 - 20.3)(52) 35   4.402241 - 20.3)(52) 35   4.402241 - 20.3)(52) 35   4.402241 - 20.3)(52) 35   4.40241 - 40.40241 - 40.40241 35   4.40241 - 4	Co Destination Constants Locations Const 54,122,1 102,108,1,13 102,108,13 102,108,13 102,108,13 102,108,13 102,108,13 102,108,13 102,108,13 102,108,13 103,10	Expression S     Totoco Info     One Stands	Clear Apply relevant response relevant response relevant response relevant response relevant response relevant response relevant response	secred ).com H A 200,228,207,2 Stoppercall.com add (0 binding) stoppo) stoppo) windows.com H A 207,46,130,10	131 1) 10 & 207.46.232.189		
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11.15.450422 100.1cm 13.14.000423 1040.7514 13.14.00045 1040.7514 13.14.00449 200.1282 13.14.00449 200.1282 13.10.66642 102.1282 13.10.66642 102.1282 15.10.66642 102.1282 15.10.66642 102.1282 15.10.71336 104.05.192 0	106.1.5 106.05.180.1 91.8211 0.2100.1.5 91.821 0.2100.1.5 92.835 101 0.2010.001 92.835 101 0.2010.001 102.100 1.001 0.001 102.100 0.0000 102.1000 0.0000 102.1000 0.0000 102.1000 0.0000 102.1000 0.0000 102.100000 102.10000 102.10000 102.100000 102.10000 102.10000	0 043 Standa DKS Standa 131 Standa 132 STP Request 132 STP Request 045 Standa 045 Standa	and query a slog and query respond t: ROUSTER stp: : 401 unauthor12 t: REGISTER stp: : 200 OK (1 b Ind query A time, ind query respond	deercall.com se A 220,282,207,1 stp.peercall.com stp.peercall.com indings windows.com windows.com	131 5) 30 & 207.46.232.189		
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Length: 42 checksum: 0xd21c [correc Domain Name System (query) Transaction ID: 0x1234 # Plags: 0x0100 (standard 0 0.000 0	39e [correct] (192.168.1.5) 192.1 (168.95.192.1) 1, Src Port: 1287 (1287), De math (53)	ist Port: domain (\$3)	)				
0	main (25) ree(1) Hery) 14 14 14 14 14 14 14 14 14 14	guery (5) not truncated guery recursively OK: Non-authenticatu	ed data 15 unacc	ceptable			

(Figure 3)

#### Example3: Using User DNS SRV

Step 1: On the main page, select [SIP Settings→Other Settings], enter [Other Settings] page, after revising the information (e.g.: Used DNS SRV: on) (See Figure 4), click [Submit].

### Other Settings

You could set other settings in this page.			
Hold by RFC:	On ⊙Off		
Voice QoS (Diff-Serv):	40 (0~63)		
SIP QoS (Diff-Serv):	40 (0~63)		
SIP Expire Time:	60 (15~86400 sec)		
Use DNS SRV:	⊙On Off		



#### (Figure 4)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.
- Step 4: Please check [Ethereal] and [Standard query] column, [Standard query SRV\_sip\_upd.sip.peercall.com] information will be found (See Figure 5)

User's Guide

Use_DNS_SRV	.cap - Ethereal								
Eile Edit View	Go Capture Anal	lyze Statistics Help							
		* 2 4	中的百里		0,0,0	R 🛄 🖗		XØ	
Eilter: dins i sip			Expression Qle	ear Apply					
No Time	Source	Destination	rotoco info						
6 3,177743	102.168.1.5	168, 05, 102, 1 192, 168, 1, 5	DNS Standard	a query sk	v _sipudp.	S10. Deerca	ii.com		Concession of the local division of the loca
8 3.325505	192.168.1.5	168.95.192.1	DNS Standard	d query sk	v_stpudp.	stp.peerca	11.com		
9 3.670403	168.95.192.1	192.168.1.5	DNS Standard	d query re	sponse, No s	uch name	11.000		
11 4.195623	168.95.192.1	192.168.1.5	DNS Standard	d query re	sponse, No s	uch name			
12 4.196746	192.168.1.5	168.95.1.1	DNS Standard	d query SR	V_sipudp.	sip.peerca	11. com		
14 4.237337	192.168.1.5	168.95.1.1	DNS Standard	d query sk	v_s1pudp.	stp.peerca	11. com		
15 4.669159	168.95.1.1	192.168.1.5	DNS Standard	d query re	sponse, No s	uch name			
16 4.670168	192.168.1.5	168.95.1.1	DNS Standard	d query se	V_s1pudp.	sip.peerca	11.00		
18 4.710898	192.168.1.5	168,95,192.1	DNS Standard	d query A	s1p.peercall	, COT			
19 5.171868	168.95.192.1	192.168.1.5	DNS Standard	d query re	sponse A 220	.128.207.1	31.		and the second se
20 5.300401	192,168,1,5 220,128,207,131	192,168,1,5	SIP Requests	401 Unaut	tionized (	o bindings			
22 5,632810	192.168.1.5	220,128,207,131	SIP Request?	REGISTER	stp:stp.pee	rcall.com			
HOFE	Tragments: Not SP	et							 
Source: 192.14 Destination: 1 User Datagram P Source port: 1 Destination p Length: 52 Checksum: 0x20 Domain Name Syst	<pre>i8.1.5 (192.168.1 168.95.192.1 (168. rotocol, src Port: 1287 (1287) ort: domain (53) 636 [correct] tem (query)</pre>	.5) ,95.192.1) : 1287 (1287), Dst P	vort: domain (53)						
Transaction II # Flags: 0x0100 0 .000 0 	St Ox1234 (Standard query) = Respons Opcode Recurs	se: Message 1s a que : Standard query (0) ted: Message 1s not fon desfred: Do quer	ry truncated y recursively						
Questions: 1 Answer RRs: 0 Authority RRs: Additional RRs E Queries E _sipudp.si Name: _sip Type: SRV Class: IN	<pre>h = 2: res 0 = Non-aut : 0 s: 0 fp.peercall.com: : pudp.sip.peerca (Service location (Ox0001)</pre>	erved (0) thenticated data OK: type SRV, class IN 11.com m)	Non-authenticated	i data 1s	unacceptable	12			
3000         00         50         7#         c0           0010         00         48         60         03           0020         c0         01         65         07           0030         00         00         00         00         00           0040         03         73         69         70           0040         03         73         60         00         71	71 50 00 01 88 0 00 00 34 11 53 9 00 35 00 34 26 1 00 00 04 35 73 4 08 70 65 65 72	02 80 91 08 00 45 00 94 c0 a8 01 05 a8 5f 36 12 34 01 00 00 01 69 70 04 5f 75 64 70 63 61 6c 6c 03 63 6f	P. q\. H. 54 &6.4 	E. .dp .co					

(Figure 5)

## Chapter 8.1 NAT Transfer

Provides STUN Settings.

## 8.1.1 STUN Settings

### 8.1.1 Function

STUN Settings could set the IP of STUN Server information.

#### 8.1.2 Instruction

Figure STUN Setting

#### STUN Setting

You could set the IP of S	TUN server in this page.
STUN:	🔘 On 💿 Off
STUN Server:	stun.xten.com
STUN Port:	3478 (80~65535)
Force Public IP:	◯ On ③ Off
Public IP address:	
Port:	5060 (80~65535)

#### Submit Reset

STUN	Default: Off. When setting 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.
Force Public IP	Default to Off (inactivated); activate Force Public IP function.
	When the setup is On(activated), Force Public IP function can be
	implemented. Provide On(activate) and Off(inactivated) mode.
Public IP address	Setup Public IP address. Data input format is xxx.xxx.xxx.xxx;
	data length is 63 digits.
Port	Default Port number 5060. Setup public port number. The
	segment for data setup is (80~65535); data length is 5 digits.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

#### 8.1.3 Operate Instruction

Step 1: On the main page, select [NAT Trans.→ STUN Settings], enter [STUN Setting] page, after revising the information (e.g.: STUN: On <sup>,</sup> STUN Server: stun.xten.com <sup>,</sup> SUTN Port: 3478) (See Figure 1), click [Submit].

## STUN Setting

You could set the IP of STUN server in this page.		
STUN:	⊙ On 🔘 Off	
STUN Server:	stun.xten.com	
STUN Port:	3478 (80~65535)	
Force Public IP:	◯ On ④ Off	
Public IP address:		
Port:	5060 (80~65535)	
	Submit Reset	

(Figure 1)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while
- Step 4: Please check [Ethereal] Packet, information that sent to STUN Server will be seen (See Figure 2)

Intel(R) PRO/1000 MT Mobile Connection (M	icrosoft's Packet Scheduler) : Capturing - Ethereal	_ 6 🗙	
Eile Edit View Go Capture Analyze Statistics H	qp		
$\blacksquare \blacksquare \boxtimes \boxtimes \boxtimes \boxtimes \models \square \times \Leftrightarrow \boxdot \square$	⇔ ⇒ ॐ ⅔ ⊉ : 🗐 🕞 ! Q, Q, Q, 🗹 ! 👺 M 🖽 🛠 i 🔯		
Eilter: stun	Expression Clear Apply		
No. Time Source Destination	rotoco Info	^	
37 24.664517 192.168.1.206 64.69.76.23 31 24 20 20 20 20 20 20 20 20 20 20 20 20 20	STUN Nessage: Binding Request STUN Nessage: Binding Request STUN Nessage: Binding Response		
42 24.977007 192.168.1.206 64.69.76.23 43 25.024360 192.168.1.206 64.69.76.23	STUN Message: Binding Request STUN Message: Binding Request		
48 25.171512 64.69.76.23 192.168.1.20 49 25.215849 64.69.76.23 192.168.1.20	6 STUN Message: Binding Response 6 STUN Message: Binding Response		
52 25, 343193 192, 168, 1, 206 64, 69, 76, 23 53 25, 384231 192, 168, 1, 206 64, 69, 76, 23 56 25, 555752 64, 69, 76, 23	STUN Message: Binding Request STUN Message: Binding Request STUN Message: Binding Response		
\$7 25.576703 64.69.76.23 192.168.1.20	6 STUN Message: Binding Response	*	
[Bad : False] source: 64.69.76.23 (64.69.76.23)		-	
Destination: 192.168.1.206 (192.168.1.206) = User Datagram Protocol, Src Port: 3478 (3478), D	st Port: 5060 (5060)		
Source port: 3478 (3478) Destination port: 5060 (5060)			
Checksum: 0x16e6 [correct]			
Is measured to the final had Dags ANI A			
Message Transaction ID: 88028809056585A65878A8	0E59615C82		
B Attribute: MAPPED-ADDRESS Attribute Type: MAPPED-ADDRESS (0x0001)			
Attribute Length: 8 Protocol Family: IPv4 (0x0001)			
Port: 35461 IP: 61.228.168.80 (61.228.168.80)			
Attribute: SOURCE-ADDRESS Attribute Type: SOURCE-ADDRESS (0x0004)			
Attribute Length: 8 Protocol Family: IPv4 (0x0001)			
IP: 64.69.76.23 (64.69.76.23)			
Attribute Type: CHANGED-ADDRESS (0x0005)		14	
Protocol Family: IPv4 (0x0001) Paper: 3470			
IP: 64.69.76.24 (64.69.76.24) = Attribute: Unknown (0x8020)			
Attribute Type: Unknown (0x8020) Attribute Length: 8			
Attribute: Unknown (0x8022) Attribute Type: Unknown (0x8022)			
Attribute Length: 16	- Wall - Providential in the provi	×	
0040 00 08 00 01 8a 85 10 c4 a8 58 00 04 00 08 0 2050 0d 96 40 45 4c 17 00 05 00 08 00 01 0d 97 4	0 01	-	
0070 00 10 56 6f 76 69 64 61 2e 6f 72 67 20 30 2/ 0080 36 00	2 29		
P (stun.att.ip), 4 bytes P: 115 D: 12 M: 0			

(Figure 2)

## **Chapter 9.1 Others**

Provide Auto Config. , FXS/ FXO/ FXS & FXO Port Setting , MAC Clone Setting , Tones Settings , Advanced Settings information.

## 9.1.1 Auto Config

#### 9.1.1 Function

Auto Configuration Setting allows connecting with the host computer and down loading related information and renew the information by TFTP, FTP or HTTP modes.

### 9.1.2 Instruction

Figure Auto Configuration Setting

### Auto Configuration Setting

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

Auto Configuration:	⊙Off ○TFTP ○ F1	ГР ОНТТР
TFTP Server:		
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

Submit Reset

Auto	Default: Off; When TFTP is setting ON, the version will be
Configuration	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; Maximum length: 63 bytes.
HTTP Server	Input HTTP Address. Can be IP Address or Domain Name.
	Format: xxx.xxx.xxx; Maximum length: 63 bytes.
HTTP Path	Input HTTP Path E.g.: 123/; can be numerals or strings.
	Maximum length: 63 bytes.
FTP Server	Input FTP Address. Can be IP Address or Domain Name. Format:
	xxx.xxx.xxx; Maximum length: 63 bytes.
FTP Username	Input FTP Username. Can be numerals or strings. Maximum
	length: 63 bytes.
FTP Password	Input FTP Password. Can be numerals or strings. Maximum
	length: 63 bytes.
File Path	Input File Path. E.g.: 123/; can be numerals or strings.
	Maximum length: 63 bytes.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

### 9.1.3 Operate Instruction

Example1: Adopt HTTP to renew. (Please build up Auto Configuration file.)

Step 1: On the main page, select [Others→Auto Config], enter [Auto Configuration Setting] page, after revising the information (e.g.: Auto Configuration: HTTP, HTTP Server: 192.168.1.50, HTTP Path: /file/) (See Figure 1), click [Submit] and save change.

## Auto Configuration Setting

You could enable/disab	le the auto configuration setting in this page.
Auto Configuration:	OOff OTFTP OFTP ⊛HTTP
TFTP Server:	
HTTP Server:	192.168.1.150
HTTP Path:	/file/
FTP Server:	
FTP Username:	
FTP Password:	
File Path:	

Submit Reset



- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while
- Step 4: After rebooting, it will connect to the file in HTTP Server, and searching the fit information. After renew all information, the system will be rebooting again. Then please login to check it (See Figure 2).

#### Service Domain Settings

You could set informati	on of service domains in this page.
Phone No.:	Phone 1 💌
Realm 1 (Default)	
Active:	⊙On ◯Off
Display Name:	UN_DO
User Name:	105
Register Name:	105
Register Password:	•••
Domain Server:	192.168.1.50
Proxy Server:	192.168.1.50
Outbound Proxy:	
Subscribe for MWI:	◯ On ⓒ Off
Status:	Not Registered

(Figure 2)

#### Example2: Using FTP to renew. (Please build up Auto Configuration file.)

Step 1: On the main page, select [Others→Auto Config], enter [Auto Configuration Setting] page, after revising the information (e.g.: Auto Configuration: FTP, FTP Server192.168.1.150, FTP Username: test, FTP Password: test, File Path: /file/) (See Figure 3), click [Submit] and save change.

## Auto Configuration Setting

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

Auto Configuration:	○Off ○TFTP
TFTP Server:	
HTTP Server:	
HTTP Path:	
FTP Server:	192.168.1.150
FTP Username:	test
FTP Password:	••••
File Path:	/file/
	Submit Reset

(Figure 3)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while
- Step 4: After rebooting, it will connect to the file in FTP Server, and searching the fit information. After renew all information, the system will be rebooting again. Then please login to check it (See Figure 4)

### Service Domain Settings

You could set information of service domains in this page.	
Phone No.: F	Phone 1
Realm 1 (Default)	
Active:	⊙ On ◯ Off
Display Name:	UN_DO
User Name:	105
Register Name:	105
Register Password:	•••
Domain Server:	192.168.1.50
Proxy Server:	192.168.1.50
Outbound Proxy:	
Subscribe for MVVI:	On ⊙Off
Status:	Not Registered

(Figure 4)

### 9.1.4 Build Auto Configuration file

#### Example1: Build one entry encode formation

Step 1: Open file [MACList.txt], input [MAC Address , Display Name , User Name , Register Name , Register Pass] one by one. (E.g.: 00059e812118 , UN\_DO , 105 , 105 , 105), then save (See Figure 1)


(Figure 1)

Step 2: Open file [StandardCFG.dat], after revising the information, (e.g. ph1Realm1DomainServer=192.168.1.50, ph1Realm1DomainServer=192.168.1.50), then

save (See Figu	ıre 2)	
	UltraEdit-32 - [D:\Test_Tools\AutoProvision\StandardCFG.dat]	
	☑ 檔案(E) 編輯(E) 搜尋(S) 專案(E) 檢視(Y) 格式(I) 區塊(L) 巨集(M) 進階(A) 視窗(W) 幫助(H _	8 ×
	← → D G <sup>2</sup> m <sup>2</sup> G G Aa + 5, H E × B C B E 3 3 1   文件統合 _ A M <sup>1</sup>   StandardCR3 dat	ы "В
	86 ph2T38Port=3800	-
	88 \$Service Domain Setting	
	89 \$ do not remove "ph1Realm1Active" 90 ph1Realm1Active=1	
	91 \$ph1Realm1DisplayName=	
	92 \$ph1Realm1UserName=	
	94 \$ph1Realm1RegisterPass=	
	95 ph1Realm1DomainServ=192.168.1.50	
	96 ph1Realm1ProxyServ=192.168.1.50 97 ph1Realm1Outbound=	
	98	
	99	
	100 \$Port Setting 101 ph1SIPPort=5060	
		-
	如需幫助檔案,諸按 F1 行 90, 縱列 18, C0 DOS 修改: 2006/6/28 08:56:28上午 大小: 2162 插入	

(Figure 2)

Step3: Start file [MakeMACF.exe], select [Please Select MAC File: MACList.txt , Please Select Standard File: StandardCFG.dat , Encryption Key: Hello123 (default) , choose: Encryption] press [Start] (See Figure 3).

Please Select MAC file:	MACLIST.TXT	Browse
Please Select Standar file :	Standardcfg.dat	Browse
Encryption Key :	(8 c)	haracters / Current is default key
		Encryption
		Chart
		Exit

(Figure 3)

Step 4: The encoded file: [00059e812118.dat] will be found, please place it to the appointed path in [HTTP or FTP or TFTP Host Computer]

#### Example2: Build lots entries encode formation

Step1: Open file [MACList.txt], input [MAC Address , Display Name , User Name , Register Name , Register Pass](e.g.: 00059e812118 , UN\_DO , 105 , 105 , 105 , 00059e812119 , UN\_DO , 106 , 106 , 106 , 00059e812120 , UN\_DO , 107 , 107 , 107 ) one by one (See Figure 4).



(Figure 4)

Step2: Open file [StandardCFG.dat], after revising the information (E.g.: ph1Realm1DomainServer=192.168.1.50, ph1Realm1DomainServer=192.168.1.50), then save (See Figure 5).

ire 5).
🛿 UltraEdit-32 - [D:\Test_Tools\AutoProvision\StandardCFG.dat]
📝 檔案(F) 編輯(E) 搜尋(S) 專案(P) 檢視(Y) 格式(T) 區塊(L) 巨集(M) 進階(A) 視窗(W) 幫助(H 💶 🗗 🗙
StandardCFG.dat
86 ph2T38Port=3800
88 \$Service Domain Setting
89 \$ do not remove "ph1Realm1Active"
90 ph1Realm1Active=1
91 \$ph1Realm1DisplayName=
92 \$ph1Realm1UserName =
93 \$phikeaimikegisterName=
95 ph1Realm1RegisterFass=
96 ph1Realm1ProxyServ=192.168.1.50
97 ph1Realm1Outbound =
98
99
100 \$Port Setting
101 ph1SIPPort=5060
×
▼1 如需幫助檔案・請按 F1 行 90, 縦列 18, C0 [DCS   修改: 2006/6/28 08:56-28上午  大小: 2162 摘入 //
(Figure 5)

Step3: Start file [MakeMACF.exe], select [Please Select MAC File: MACList.txt , Please Select Standard File: StandardCFG.dat , Encryption Key: Hello123 (default) , select Encryption], press Start. (e.g.:Picture6).



(Figure 6)

Step4: [00059e812118.dat , 00059e812119.dat , 00059e812120.dat] will be found, please place it to the appointed path in [HTTP or FTP or TFTP Host Computer].

### 9.2.1 FXS/ FXO & FXS/FXO Port Settings

### 9.2.1 Function

FXS/ FXO & FXS/ FXO Impedance Setting display the FXS & FXO Impedance of the analog telephone by different countries.

#### 9.2.2 Instruction

Figure 1: FXS equipment

### **FXS** Impedence Setting

You could select the FXS impedence of the analog telephone by different country in this page.

(Fiaure 1)

FXS Port	Default: USA. To select FXS & FXO Port impedance of the analog
	telephone by different.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

#### Figure 2: FXO+FXS equipment

### FXO & FXS Setting

You could select the FXO & FXS impedence of the analog telephone by different country in this page.

FXO Port:	USA 💌
FXS Port:	USA 💌
FXO Silence Timeout :	30 (1~250 minutes)
FXO CID forward:	On ⊙Off
	Submit Reset

(Figure 2)

FXS Port	Default: USA. To select FXS & FXO Port impedance of the analog				
	telephone by different.				
FXO Port	Default: USA. To select FXS & FXO Port impedance of the analog				
	telephone by different.				
FXO Silence	Default to 30 minutes; FXO mute time setting. Provide setting				
Timeout	for FXO mute time for auto drop off.				
FXO CID forward	Default to Off; FXO in coming number switch. When setting is				
	On, the system will be activated from the FXO port to receive the				
	in coming number, and goes to next procedure; Provide On and				
	Off mode.				
	Note: This function must be co-operated with SIP Proxy Server.				
Submit [Button]	Submit the change.				
Reset [Button]	Clear the change.				

#### Figure 3: Phone+FXO equipment

### FXO Impedence Setting

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



FXO Port	Default: USA. To select FXS & FXO Port impedance of the analog					
	telephone by different.					
FXO Silence	Default to 30 minutes; FXO mute time setting. Provide setting					
Timeout	for FXO mute time for auto drop off.					
FXO CID forward	Default to Off; FXO in coming number switch. When setting is					
	On, the system will be activated from the FXO port to receive the					
	in coming number, and goes to next procedure; Provide On and					
	Off mode.					
	Note: This function must be co-operated with SIP Proxy Server.					
Submit [Button]	Submit the change.					
Reset [Button]	Clear the change.					

### 9.2.3 Operate Instruction

Step 1: On the main page, select [Others→FXO Settings], enter [FXO Impendence Setting] page, after revising the information (e.g.: FXO Port: Thailand) (Figure 1), click [Submit].

### **FXS** Impedence Setting

You could select his page.	the FXS impedence o	of the analog telephone by different country in
FXS Port:	USA	*
	Luxembourg	^
	Macao	
	Malaysia	
	Mexico	
	Morocco	
	Netherlands	
	New Zealand	
	Norway	
	Oman	
	Peru	
	Philippines	
	Poland	
	Portugal	
	Romania	
	Russia	
	Saudi Arabia	
	Singapore	
	Slovakia	
	Slovenia	
	South Africa	
	South Korea	
	Spain	-
	Sweden	
	Switzerland	
	Taiwan	
	TBR21	
	Inaliand	
	UAE United L/involou	
	USA	
	USA	
	<b>(Г</b> іс	$\alpha_{\rm H} = 1$
	(FIQ	Jule I)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while

### 9.3.1 MAC Clone Setting

### 9.3.1 Function

You could enable / disable the MAC Clone setting.

#### 9.3.2 Instruction

Figure MAC Clone Setting (VoIP Gateway only)

MAC Clone Setting

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

MAC Clone: O On O Off

Submit Reset

MAC Clone	Default:	OFF.	When	setting	ON,	Mac	Clone	function	will	be
	active.									
Submit [Button]	Submit th	he ch	ange.							
Reset [Button]	Clear the	chan	ige.							

### 9.3.3 Operate Instruction

Step 3: The following

- Step 1: Please make sure that LAN Mode is NAT Mode, and your PC is connected to LAN Port, and using LAN to enter page: (<u>http://192.168.123.1:9999</u>)
- Step 2: On the main page, select [Others→MAC Clone Setting], enter [MAC Clone Setting] page, after revising the information (e.g.: MAC Clone: on) (See Figure 1), click [Submit].

### MAC Clone Setting

You could enabl	e/disable the MAC clone setting in this page.
MAC Clone:	⊙ On ◯ Off
	Submit Reset
	(Figure 1)
informati	on will be found (See Figure 2) Please click [Submit].
rosoft Internet	Explorer 🛛





Step4: The following information will be found (See Figure 2) Please click [Submit].



Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.

Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the

saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.

Example7: Enter the main page, select [Network→WAN Settings], please copy your PC's [MAC] Address to WAN Port.

Example8: Your PC's MAC Address is: Physical Address: 00-10-C6-CE-01-AE (See Figure 4).



(Figure 4)

#### 9.3.4 NOTE!

When setting MAC Clone function, make sure that: LAN Mode: NAT Mode. If Bridge Mode is ON, it cannot work.

If you would like to restore, please act (Restore Default Setting).

### 9.4.1 Tones Settings

### 9.4.1 Function

Tones Settings provide Dial Tone , Ring Back Tone , Busy Tone , Congestion Tone , Ring Tone , Inser Tone information. High Tone and Low Tone are available.

### 9.4.2 Instruction

Figure Tones Setting Tones Settings

You could configure your tones settings in this page.

	Dial Tone	Ring Back Tone	Busy Tone	Congestion Tone	Ring Tone	Call Waitting Tone	
Cadence On:		<b>V</b>	<b>V</b>				
Hi-Tone Freq.:	440	480	620	620	480	440	
Lo-Tone Freq.:	350	440	480	480	440	350	
Hi-Tone Gain:	4522	2261	2261	2261	15360	2261	
Lo-Tone Gain:	2261	2261	2261	2261	15360	1130	
On Time 1:	0	200	50	30	200	30	
Off Time 1:	0	400	50	20	400	20	
On Time 2:	0	0	0	0	0	30	
Off Time 2:	0	0	0	0	0	400	
On Time 3:	0	0	0	0	0	0	
Off Time 3:	0	0	0	0	0	0	

Submit Reset

Dial Tone	Setting the Dial Tone information.
Cadence On	Default: Disable.
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: 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.
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: 480 ; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Lo-Tone Freq	Default: 440 ; 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: 2261 ; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
On Time 1	Default: 200; 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: 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: 2261 ; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
On Time 1	Default: 50; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
Off Time 1	Default: 50; 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.
CCongestion	Setting the Congestion Tone information.
Tone	
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: 2261; Only numerals are acceptable. Data range: $(0 \sim 99999)$ 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: ( $0 \sim 99999$ ) Maximum length: 5 bytes
Lo-Tone Freq	Default: 440; 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: 15360; Only numerals are acceptable. Data range: (0~99999). Maximum length: 5 bytes.
On Time 1	Default: 200; 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: $(0 \sim 99999)$ Maximum length: 5 bytes
Lo-Tope Cain	Default: 1130 : Only numerals are accontable. 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: 3; 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.

### 9.4.3 Operate Instruction

Step 1: On the main page, select [Others→Tones Settings], enter [Tones Settings] page, after revising the information, click [Submit] (See Figure 1).

### **Tones Settings**

You could configure your tones settings in this page.

	Dial Tone	Ring Back Tone	Busy Tone	Congestion Tone	Ring Tone	Call Waitting Tone
Cadence On:				<b>V</b>		<b>V</b>
Hi-Tone Freq.:	440	480	620	620	480	440
Lo-Tone Freq.:	350	440	480	480	440	350
Hi-Tone Gain:	4522	2261	2261	2261	15360	2261
Lo-Tone Gain:	2261	2261	2261	2261	15360	1130
On Time 1:	0	200	50	30	200	30
Off Time 1:	0	400	50	20	400	20
On Time 2:	0	0	0	0	0	30
Off Time 2:	0	0	0	0	0	400
On Time 3:	0	0	0	0	0	0
Off Time 3:	0	0	0	0	0	0
	Submit	Reset				

(Figure 1)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while
- Step 4: Call to another equipment, the frequency of Ring Back Tone changes.

### 9.5.1 Advanced Settings

### 9.5.1 Function

Advanced Setting provides ICMP not Echo, Send Anonymous CID, Billing Signal (FXS only), CPC function (FXS only), Send Flash event, SIP Encrypt PPPoE retry period System Log Server functions.

### 9.5.2 Instruction

Figure 1: FXS equipment (included: FXS , FXS+PSTN , FXS+FXO)

#### You could change advanced setting in this page. ICMP Not Echo: OYes ⊙No Send Anonymous CID: OYes ⊙No Management from WAN: ⊙Yes ○No Billing Signal: Disabled ~ CPC Delay: 2 (2~5 Seconds) CPC Duration: 0 x 10 ms (0~120) Send Flash event: ~ Disabled SIP Encrypt: Disabled \* Encryption Key: ..... PPPoE retry period: 5 Seconds System Log Server: System Log Type: None ¥ Submit Reset

### Advanced Setting

Fifgure 1

ICMP Not Echo	Default: No. when setting YES, ICMP Not Echo function will be active.
Send Anonymous CID	Default: No. When setting YES, send out CID cannot be found by another person. Your Register Proxy server must support this function.
Billing Signal	Default: Disable. Provides Disable , Polarity Reversal , Tone_12K, Tone_16K mode.
CPC Delay	Default: 2(sec); setting how long it takes for the voltage reaches OV when receiving hang up signal. Only numbers are accepted, data range (2~5 sec.), maximum length: 1 byte.
CPC Duration	Default: 120ms. Setting how long it takes for the voltage reaches 0V, data range (0~120), maximum length: 3 bytes.
Send Flash event	Default: Disable. Provides Disable , DTMF Event , SIP Infomode.
SIP Encrypt	Default: Disable. Provides Disable , INFINET , AVS , WALKERSUN1, WALKERSUN2 modes. Your Register Proxy server must support this function.
Encryption Key	Set encryption password • Only support GVX encryption format, maximum data: 63 bytes.
PPPoE retry	Default: 223 (Seconds); setting how long it takes for PPPoE
period	retry when PPPoE failed. Only numbers are accepted, data range: (5~255), maximum length: 3 bytes.

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System Log	Display the system Log Server information, send System Log to	
Server	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, All mode.	
Submit [Button]	Submit the change.	
Reset [Button]	Clear the change.	

### Figure 2: Phone equipment (included: Phone+FXO)

### Advanced Setting

You could change advanced setting in this page.

ICMP Not Echo:	◯Yes ⊙No
Send Anonymous CID:	◯Yes ⊙No
Management from WAN:	⊙Yes ○No
Send Flash event:	Disabled 💌
Encryption Type:	Disabled 💌
Encryption Key:	•••••
PPPoE retry period:	5 Seconds
System Log Server:	
System Log Type:	None

Submit Reset

Figure 2

ICMP Not Echo	Default: No. when setting YES, ICMP Not Echo function will be
	active.
Send Anonymous	Default: No. When setting YES, send out CID cannot be found by
CID	another person. Your Register Proxy server must support this
	function.
Send Flash event	Default: Disable. Provides Disable, DTMF Event, SIP Info modes.
Encryption Type	Default: Disable. Provides Disable , INFINET , AVS ,
	WALKERSUN1 , WALKERSUN2 , CSF1, CSF2, GX, VGX, RC4
	modes. Your Register Proxy server must support this function.
Encryption Key	Set encryption password • Only support GVX encryption format,
	maximum data: 63 bytes.
PPPoE retry	Default: 223 (Seconds); setting how long it takes for PPPoE
period	retry when PPPoE failed. Only numbers are accepted, data
	range: (5~255), maximum length: 3 bytes.
System Log	Display the system Log Server information, send System Log to
Server	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 , All mode.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

### 9.5.3 Operate Instruction

### Example1: Send Anonymous CID

Step 1: On the main page, select [Others→Advanced Settings], enter [Advanced Setting] page, after start it, click [Submit] (See Figure 1).

### Advanced Setting

You could change advanced setting in this page.		
ICMP Not Echo:	◯Yes ⊙No	
Send Anonymous CID:		
Management from WAN:	⊙Yes ○No	
Billing Signal:	Disabled 💌	
CPC Delay:	2 (2~5 Seconds)	
CPC Duration:	0 x 10 ms (0~120)	
Send Flash event:	Disabled 🗸	
SIP Encrypt:	Disabled 💌	
Encryption Key:	•••••	
PPPoE retry period:	5 Seconds	
System Log Server:		
System Log Type:	None	
/_	Submit Reset	
()	igure 1)	

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while
- Step 4: After rebooting, and call to another equipment, dial out CID cannot be found. Please check [Ethereal] Packet and column [From: "Anonymous" <sip:

anonymous@anonymous.invalid>] (See Figure 2)

🔍 (Untitled) - Ethereal 📃 着	
Eile Edit View Go Capture Analyze Statistics Help	
Elter Sip	
No. Time Source Destination rotoco Info	~
10/ 39/1/3/20 10/108.1.4 10/108.1.2 51P Request: Ack Stp:300812.108.1.2 12/347.35835 10/1651.02 10/1651.02 510/001.2 510/001.2 510/001.2 510/001.2 500.000000000000000000000000000000000	
126 45.086711 192.168.1.2 192.168.1.14 SIP STATUS: 100 Trying 127 45.188138 100 168 1 2 100 168 1 14 SIP STATUS: 180 610000	
128 41 321709 102 108 1 202 218 32 223 140 STP Request: REGISTER 3[p:218, 32, 223, 140	
Let 9337/000 10332/23140 192100.1202 51P status: 200 0K (L Dimaings)	- Ť
<pre>Wethod: TWYTE = 50,5300055:100111 SHP110 Wethod: TWYTE = 51,5300055:100111 SHP110 F [Resear Packet: False] B Message Meader visi StP72.0/UP 102.168.1.14:5000rpport;branch-z9hd4bk0d62f2e94 B From: "Anonymous" <s1ptanonymous@anonymous.invalids;tage3405643b STP from address: s1ptanonymous@Anonymous.invalid STP from address: s1ptanonymous@Anonymous.invalid Contact: s1pt30104102.168.1.14:50600 B Contact: s1pt30301292.168.1.14:50600 STP contact address: s1pt3030192.168.1.14:5060 Cseq: 601 INVTE Max-Forwards: 70 Allow: INVTE; CANCEL, ACK, BYE, MeriteY, REFER, OPTIONS, INFO, MESSAGE Context-rype: applicationysep User-Agent: CMX (610050) Contact_Height: 63 B mession pescription Percol</s1ptanonymous@anonymous.invalids;tage3405643b </pre>	
0090         0.01         16         7.6         1.6         6.6         6.7         9.6         1.6         1.6         6.6         1.7         1.6 </td <td></td>	
Pro szer, nom header (sigur ( )n. ezz b. zo in. e brops. e	

(Figure 2)

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# Step 1: On the main page, select [Others→Advanced Settings], enter [Advanced Setting] page, after setting CPS, click [Submit] (See Figure 3)

### Advanced Setting

You could change advanced setting in this page.		
ICMP Not Echo:	◯Yes ⊙No	
Send Anonymous CID:	◯Yes ⊙No	
Management from WAN:	⊙Yes ○No	
Billing Signal:	Disabled 💌	
CPC Delay:	2 (2~5 Seconds)	
CPC Duration:	100 x 10 ms (0~120)	
Send Flash event:	Disabled 💌	
SIP Encrypt:	Disabled 💌	
Encryption Key:	•••••	
PPPoE retry period:	5 Seconds	
System Log Server:		
System Log Type:	None	
	Submit Reset	



- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.
- Step4: Generally speaking , if a human is using a phone line , it doesn't matter whether the phone equipment recognizes CPC or not , since the human will physically hang-up the phone when they're done with the call , or they'll pick the call up off of hold when the phone system rings back after X seconds / minutes.

#### **Example3: Send Flash Event**

#### Send Flash Event: DTMF Event

Step 1: On the main page, select [Others→Advanced Settings], enter [Advanced Setting] page, after revising the information, (e.g.: Send Flash event: DTMF Event), click [Submit] (See Figure 4)

### Advanced Setting

You could change advanced setting in this page.

ICMP Not Echo:	⊖Yes ⊙No
Send Anonymous CID:	⊖Yes ⊙No
Management from WAN:	⊙Yes ○No
Billing Signal:	Disabled 💌
CPC Delay:	2 (2~5 Seconds)
CPC Duration:	0 x 10 ms (0~120)
Send Flash event:	
SIP Encrypt:	
Encryption Key:	SIP INFO
PPPoE retry period:	5 Seconds
System Log Server:	
System Log Type:	None 🗸
	Submit Reset

(Figure 4)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while.
- Step 4: After rebooting, and call to another equipment, please press [Flash] which will changing to SIP Info., then check [Ethereal] and column [Event ID: Flash] (See Figure 5)

Elle Edit View Co Capture Analyze Statistics Help  No. Time Source Destination rotocol info  INIT 2005 40320 102.188.1.2  INIT 2005 4032 402.189  INIT 2005 4	🛿 (Untitled) - Ethereal	×
Image: Source         Destination         Totoco Info           13448         2005.445200         192.165.1.14         177         Payload type=tru-t G.711 PCMU, SSGC-2653598756, Seq=1398, TI           13448         2005.445200         192.165.1.14         177         Payload type=tru-t G.711 PCMU, SSGC-2653598756, Seq=1398, TI           13448         2005.445200         192.165.1.14         192.165.1.2         RTP         Payload type=KTP Event, Flash           138112         2005.445200         192.165.1.14         192.165.1.2         RTP         Payload type=KTP Event, Flash           138112         2005.4491054         192.165.1.2         RTP         Payload type=KTP Event, Flash           13812         2005.150220         192.165.1.2         RTP         Payload type=KTP Event, Flash           13812         2005.1202.165.1.2         192.165.1.2         RTP         Payload type=KTP Event, Flash           13812         2005.102.105.1.1.4         RTP         Payload type=KTP Event	Eile Edit View Go Capture Analyze Statistics Help	
Eiker.         ##         • Expression Clear Apply           No.         Time         Source         Destination         vrotoco info           18112 2085.485200 102.188.1.2         192.168.1.2         192.168.1.2         arr Payload type=TU-T G.711 PCMU, SSRC=2635398756, Seq=1393, TI           18112 2085.485200 102.168.1.1.4         192.168.1.2         arr Payload type=TU-T G.711 PCMU, SSRC=2635398756, Seq=1393, TI           18112 2085.491164 122.168.1.1.4         192.168.1.2         arr Payload type=TU-T G.711 PCMU, SSRC=2635398756, Seq=1394, TI           18112 2085.491164 122.168.1.1.4         192.168.1.2         arr Payload type=TTP Event, Flash           18112 7085.491264 122.168.1.1.4         192.168.1.2         arr Payload type=TTP Event, Flash (end)           18112 7085.491364 122.168.1.1.4         192.168.1.2         arr Payload type=TTP Event, Flash (end)           18112 7085.491364 122.168.1.1.4         192.168.1.2         arr Payload type=TTP Event, Flash (end)           18112 7085.491364 122.168.1.1.4         192.168.1.1         arr Payload type=TTP Event, Flash (end)           18112 7085.491364 122.168.1.1.4         192.168.1.2         arr Payload type=TTP Event, Flash (end)           18112 7085.491364 122.168.1.1.4         192.168.1.2         arr Payload type=TTP Event, Flash (end)           1812 7085.49164 122.168.1.1.4         192.168.1.2         arr Payload type=TTP Event, Flash (end) <t< td=""><td>≝≝≝≝≝⊨⊨,,×∞,≙,⊆,,,⇒∞,7,2,≣∎,⊙,Q,Q,™,≝%115,%105</td><td></td></t<>	≝≝≝≝≝⊨⊨,,×∞,≙,⊆,,,⇒∞,7,2,≣∎,⊙,Q,Q,™,≝%115,%105	
No.         Time         Source         Destination         Trotocol info           18112 2085.455200 192.168.1.2         192.168.1.14         RTP         Payload type:ITU-T G.711 PCMU, SSRC=2635398736, Seq=1393, TI           18114 2085.440209 192.168.1.24         192.168.1.2         RTP         Payload type:ITU-T G.711 PCMU, SSRC=2635398736, Seq=1393, TI           18114 2085.440209 192.168.1.24         192.168.1.2         RTP EV Payload type:HTP Event, Flash           18114 2085.440264 192.168.1.24         192.168.1.2         RTP EV Payload type:HTP Event, Flash           18114 2085.440264 192.168.1.24         192.168.1.2         RTP EV Payload type:HTP Event, Flash (end)           18119 2085.505220 192.168.1.24         192.168.1.2         RTP EV Payload type:RTP Event, Flash (end)           18119 2085.505220 192.168.1.2         192.168.1.2         RTP EV Payload type:RTP Event, Flash (end)           18119 2085.505220 192.168.1.2         192.168.1.2         RTP EV Payload type:RTP Event, Flash (end)           18119 2085.505220 192.168.1.2         192.168.1.2         RTP EV Payload type:RTP Event, Flash (end)           18119 2085.10520 102.168.1.2         RTP EV Payload type:RTP Event, Flash (end)           18119 2085.10520 102.168.1.2         RTP EV Payload type:RTP Event, Flash (end)           18119 2085.10520 102.168.1.2         RTP EV Payload type:RTP Event, Flash (end)           18119 2085.10520 102.168.1.2	Eilter. Inp   Expression Clear Apply	
0 = MATK#: FAISE Payload type: telephone-event (101) THmestamp: 92320 Synchronization Source identifier: 2161891793 = RFC 2833 KTP Event Cvent 100 Flash (40) 0 = End of Event: Faise 	No.         Time         Source         Destination         'rotoco info           18112 2085.485200 192.168.1.2         192.168.1.14         RTP         Payload type=TU-T G.711 PCMU, SSRC=2633398736, Seq=1393, T1           18118 2085.485200 192.168.1.14         192.168.1.2         RTP         Payload type=TU-T G.711 PCMU, SSRC=2633398736, Seq=1393, T1           18118 2085.491264 192.168.1.14         192.168.1.2         RTP         Payload type=RTP Event, Flash           18119 2085.491264 192.168.1.2         RTP         FV Payload type=RTP Event, Flash         18119 2085.491264 192.168.1.2           18119 2085.491264 192.168.1.14         192.168.1.2         RTP EV Payload type=RTP Event, Flash         18119 2085.591220 192.168.1.14         192.168.1.2           18119 2085.591220 192.168.1.14         192.168.1.14         RTP EV Payload type=RTP Event, Flash (end)         18119 2085.591220 192.168.1.2         192.168.1.14           18119 2085.591220 192.168.1.2         192.168.1.14         RTP EV Payload type=RTP Event, Flash (end)         18119 2085.591220 192.168.1.2         192.168.1.14         RTP EV Payload type=RTP Event, Flash (end)           18119 2085.591220 192.168.1.2         192.168.1.14         RTP EV Payload type=RTP Event, Flash (end)         192.168.1.14           2085 Datagram Protocol, Src Port: 60000 (60000)         Source part: 60000 (60000)         18119 2085.591220 192.168.1.14         192.168.1.14	
Event ID (thread in 1 h P: 19367 D: 3000 M: 0 Drove: 0	0 Marker: False Payload Type: telephone-event (101) Sequence number: 1373 Timestamp: 9220 Second 20 and 2	
period operative and the second operation of the second operation	Event ID (tpevent.event_id), 1 b: ∫P. 18367 D: 3080 M: 0 Drops: 0	14

(Figure 5)

#### Send Flash Event: SIP Info

Step 1: On the main page, select [Others→Advanced Settings], enter [Advanced Setting] page, after changing Send Flash event, (e.g.: Send Flash event: SIP Info), click [Submit] (See Figure 6)

### Advanced Setting

You could change advanced setting in this page

ICMP Not Echo:	⊖Yes ⊙No
Send Anonymous CID:	⊖Yes ⊙No
Management from WAN:	⊙Yes ○No
Billing Signal:	Disabled 💌
CPC Delay:	2 (2~5 Seconds)
CPC Duration:	0 x 10 ms (0~120)
Send Flash event:	SIP INFO
SIP Encrypt:	
Encryption Key:	SIP INFO
PPPoE retry period:	5 Seconds
System Log Server:	
System Log Type:	None

Submit Reset

(Figure 6)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while
- Step 4: After rebooting, and call to another equipment, please press [Flash], which will changing to SIP Info., then check [Ethereal] and column [Content-Type:

application/hool-flash] (See Figure 7)



(Figure 7)

### Example 4: PPPoE retry period

Step 1: On the main page, select [Others→Advanced Settings], enter [Advanced Setting] page, after revising PPPoE Retry Period, (e.g.: PPPoE Retry Period: 20), click [Submit] (See Figure 8)

### Advanced Setting

)Yes ⊛No
Yes 💿 No
)Yes 💿 No
Disabled 💌
)isabled 👻
0 Seconds
Vone 💌
Octor Deced

(Figure 8)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while
- Step4: Every other 20 second, the system will retry through [Ethereal] Log.

(Ontified) - Emercal		
Elle Edit View Go Capture Analyze Statistics He	þ	
製製製製廠 10 - 1 × 谷 12 - 19 -	è è ♥ ₮ ⊈ 🗐 🖩 Q,Q,Q, 🗹 🙀 🕅 🔢 🛠 🔞	
Eilter ppp	🛛 👻 Expression. Glear Apply	
No. Time Source Destination	Totoco Info	
1 0.000000 welltech_02:d6:d2 Unispher_40:0 2 0.000000 unispher_40:09:87 welltech_02:d	9:87 PPP LC Termination Request 6:42 PPP LC Termination Ack	
5 12.100986 Welltern Oldbid: Unispher 40:0 9 12.348161 Unispher 40:09:87 Wellterh 02:d	2107 PEP LC Contiguration Request	
10 12.348688 welltech_02:d6:d2 Unispher_40:0 11 12.349209 unispher_40:09:87 welltech_02:d	9:87 PPP LC Configuration Ack 6:d2 PPP LC Configuration Ack	
12 12.349912 welltech_02:d6:d2 Unispher_40:0 13 12.350029 welltech_02:d6:d2 Unispher_40:0	9:87 PPP LC Echo Request 9:87 PPP PA Authenticate-Request	
14 12.387330 unispher_40:09:87 welltech_02:d 15 12.683722 unispher_40:09:87 welltech_02:d	81d2 PPP LC Echo Reply 61d2 PPP PA Authenticate-Nak	
16 12.684644 unispher_40:09:87 welltech_02:d 17 12.685301 welltech_02:d6:d2 unispher_40:0	5:d2 PPP LC Termination Request 9187 PPP LC Termination Ack	
40 33.837584 unispher_40:09:87 welltech_02:d	3187 DBP LC Configuration Request 6:d2 PPP LC Configuration Request	
41 33.838145 Weiltech_02:06:02 Unispher_40:0 42 33.838302 Unispher_40:09:87 Weiltech_02:0	9:87 PPP LC Configuration Ack 6:d2 PPP LC Configuration Ack	
44 33.839110 welltech_02:d6:d2 unispher_40:0	9:87 PPP PA Authenticate-Request	
46 34.172185 unispher_40:09:87 Welltech_02:d 47 34 172097 unispher_40:09:87 Welltech_02:d	6:d2 PPP PA Authenticate-Nak 6:d2 PPP PA Authenticate-Nak	
48 34.173653 welltech_02:d6:d2 Unispher_40:0	9:87 PPP LC Termination Ack 9:87 PPP LC Termination Ack	
55 55.331184 Unispher_40:09:87 Welltech_02:d 56 55.331710 Welltech_02:d6:d2 Unispher_40:0	6:d2 PPP LC Configuration Request 9:87 PPP LC Configuration Ack	
57 55.331871 unispher_40:09:87 welltech_02:d 58 55.332583 welltech_02:d6:d2 unispher_40:0	6:d2 PPP LC Configuration Ack 9:87 PPP LC Echo Request	
59 55.332699 Welltech_02:d6:d2 Unispher_40:0 60 55.371096 Unispher_40:09:87 Welltech_02:d	9:87 PPP PA Authenticate-Request 6:d2 PPP LC Echo Reply	
61 35.666512 Unispher_40:09:87 welltech_02:d 62 55.667570 Unispher_40:09:87 welltech_02:d	5:d2 PPP PA Authenticate-Nak 6:d2 PPP LC Termination Request	
63 55,668066 welltech_02:deid2_untspher_40:0 69 76 76 76 90 00 00 00 00 00 00 00 00 00 00 00 00	9:87 PPP LC Termination Ack ABBY PPP LC Connicquention Request	_
70 76.824443 Unispher_40:09:87 Weiltech_02:0	9187 PPP LC Configuration Ack	
73 76.825922 welltech_02:d6:d2 unispher_40:0 74 76 826024 welltech_02:d6:d2 unispher_40:0	9:87 PPP LC Echo Request	
75 76.865452 Unispher_40:09:87 welltech_02:d 76 77.168209 Unispher_40:09:87 welltech_02:d	6:d2 PPP LC Echo Reply 6:d2 PPP PA Authon: icare-mak	
77 77.169136 Unispher_40:09:87 welltech_02:d 78 77.169712 welltech_02:d6:d2 Unispher_40:0	6:d2 PPP LC Termination Request 9:87 PPP LC Termination Ack	
85 98.583056 welltech_02:d6:d2 unispher_40:0 86 98.619449 unispher_40:09:87 welltech_02:d	9167 PRP LC Configuration Request 5:d2 PPP LC Configuration Request	
[Protocols in frame: eth:pppoes:ppp:lcp]		
Ethernet II, Src: welltech_02:d6:d2 (00:01:48:02: Destination: Unispher_40:09:87 (00:90:11:40:09:	d0:d2), Ost: unispher_40:09:87 (00:90:la:40:09:87) 87)	
Source: welltech_02:d6:d2 (00:01:a8:02:d6:d2) Type: PPPoE Session (0x8864)		
E PPP-over-Sthernet Session		4
0000 00 90 1a 40 09 87 00 01 a8 02 d6 d2 88 64 11 0010 02 56 00 10 c0 21 01 01 00 0e 01 04 05 d4 05	00	
	·····	

(Figure 9)

## Example5: System Log (Please start TFTP or System Log Server first) System Log Type: Call Statistics

Step 1: On the main page, select [Others→Advanced Settings], enter [Advanced Setting] page, after setting System Log, (e.g.: System Log Server: 192.168.1.6, System Log Type: Call Statistics), click [Submit] (See Figure 10)

### Advanced Setting

You could change advanced setting in this page.

CMP Not Echo:	○Yes ⊙No
Send Anonymous CID:	⊖Yes ⊙No
Gend Flash event:	Disabled 💌
BIP Encrypt:	Disabled 💌
PPoE retry period:	223 Seconds
System Log Server:	192.168.1.6
System Log Type:	Call Statistics 🗸 🗸
	None Call Statistics General Debug Call Statistics+General Debug SIP Debug Call Statistics+SIP Debug General Debug+SIP Debug All

(Figure 10)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while
- Step 4: On [TFTP Server]-- [Syslog server] page, new messages are received (See Figure 11)

				Contrast Contrast Contrast
Current Directory	DATest_ToolsATFTPD32v2.84		-	growte
ieverinterlace	192.168.1.6			Show Dr
Tito Server   Tr	to Client   DHCP server Syslog sen	ver SNTP server		
		000 - 15 00 1 199000 (Sock H H - 45 300 7 19900 (Sock	renoy unge-5450	
			1	1000
	About	Şetings		Help

(Figure 11)

### System Log Type: General Debug

Step 1: On the main page, select [Others→Advanced Settings], enter [Advanced Setting] page, after setting System Log, (e.g.: System Log Server: 192.168.1.6 , System Log Type: General Debug), click [Submit] (See Figure 12)

### Advanced Setting

You could change advanced setting in this page.

CMP Not Echo:	🔿 Yes 💿 No
Send Anonymous CID:	⊙Yes ⊙No
Send Flash event:	Disabled 💌
SIP Encrypt:	Disabled 👻
PPoE retry period:	223 Seconds
System Log Server:	192.168.1.6
System Log Type:	Call Statistics
	None Call Statistics General Debug Call Statistics+General Debug SIP Debug Call Statistics+SIP Debug General Debug+SIP Debug All

(Figure 12)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while
- Step4: On [TFTP Server] -- [Syslog server] page, new messages are received (See Figure 13)

Tftpd32 by Ph. Jounin		- 6 🛛
Current Directory D.\Text_Tools\TFTPD32 v284		growce
Server interface 192,1081,6	-	Show Dr
Thp Server   Thp Client   DHCP server   Systog server   SNTP server		
Total 100: 100: 100: 100: 100: 100: 100: 100		
About Settings		Heb

(Figure 13)

### System Log Type: Call Statistics + General Debug

Step 1: On the main page, select [Others→Advanced Settings], enter [Advanced Setting] page, after setting System Log, (e.g.: System Log Server: 192.168.1.6 , System Log Type: Call Statistics + General Debug), click [Submit] (See Figure 14)

### Advanced Setting

You could change advanced setting in this page.

CMP Not Echo:	⊖Yes ⊙No
Send Anonymous CID:	⊖Yes ⊙No
Send Flash event:	Disabled 💌
SIP Encrypt:	Disabled 💌
PPoE retry period:	223 Seconds
System Log Server:	192.168.1.6
System Log Type:	Call Statistics 🗸 🗸
	None Call Statistics General Debug Call Statistics+General Debug SIP Debug Call Statistics+SIP Debug General Debug+SIP Debug All

(Figure 14)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while
- Step4: On [TFTP Server] -- [Syslog server] page, new messages are received (See Figure 15)

Tftpd32 by Ph. Jounin	- 6 🔀
Current Directory D.\Text_Tools\TFTP032 v2.84	growce
Server interface 192.1681.6	Show Dr
Titp Server   Titp Clenk   DHCP server   Systeg server   SNTP server	
111         111 <td></td>	
(bout Settings	Heb
$(\Gamma_{i})$	

#### (Figure 15)

#### System Log Type: SIP Debug

Step 1: On the main page, select [Others→Advanced Settings], enter [Advanced Setting] page, after setting System Log, (e.g.: System Log Server: 192.168.1.6, System Log Type: SIP Debug), click [Submit] (See Figure 16)

### Advanced Setting

You could change advanced setting in this page.

CMP Not Echo:	○Yes ⊙No
Send Anonymous CID:	⊖Yes ⊙No
Gend Flash event:	Disabled 💌
BIP Encrypt:	Disabled 💌
PPoE retry period:	223 Seconds
System Log Server:	192.168.1.6
System Log Type:	Call Statistics 🗸 🗸
	None Call Statistics General Debug Call Statistics+General Debug SIP Debug Call Statistics+SIP Debug General Debug+SIP Debug All

(Figure 16)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while
- Step4: On [TFTP Server]-- [Syslog server] page, new messages are received (See Figure 17)



(Figure 17)

### System Log Type: Call Statistics + SIP Debug

Step 1: On the main page, select [Others→Advanced Settings], enter [Advanced Setting] page, after setting System Log, (e.g.: System Log Server: 192.168.1.6, System Log Type: Call Statistics + SIP Debug), click [Submit] (See Figure 18)

### Advanced Setting

You could change advanced setting in this page.

CMP Not Echo:	⊖Yes ⊙No
Send Anonymous CID:	◯Yes ⊙No
Send Flash event:	Disabled 💌
SIP Encrypt:	Disabled 💌
PPoE retry period:	223 Seconds
System Log Server:	192.168.1.6
System Log Type:	Call Statistics 🗸 🗸
	None Call Statistics General Debug Call Statistics+General Debug SIP Debug Call Statistics+SIP Debug General Debug+SIP Debug All

(Figure 18)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while
- Step4: On [TFTP Server]-- [Syslog server] page, new messages are received (See Figure 19)



(Figure 19)

#### System Log Type: General Debug + SIP Debug

Step 1: On the main page, select [Others→Advanced Settings], enter [Advanced Setting] page, after setting System Log, (e.g.: System Log Server: 192.168.1.6 , System Log Type: General Debug + SIP Debug), click [Submit] (See Figure 20)

### Advanced Setting

You could change advanced setting in this page.

CMP Not Echo:	○Yes ⊙No
Send Anonymous CID:	⊖Yes ⊙No
Gend Flash event:	Disabled 💌
BIP Encrypt:	Disabled 💌
PPoE retry period:	223 Seconds
System Log Server:	192.168.1.6
System Log Type:	Call Statistics 🗸 🗸
	None Call Statistics General Debug Call Statistics+General Debug SIP Debug Call Statistics+SIP Debug General Debug+SIP Debug All

(Figure 20)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while
- Step4: On [TFTP Server]-- [Syslog server] page, new messages are received (See Figure 21)

er/ Dectory	D.\Test_Tooh\TFTPD32v2.84		-	growce
rer interface	152.168.1.6			Show Dr
Server   TR	tp Client   DHCP server Syslog a	erver SNTP server		
	19-2007-01-01-02-204-10-0 19-2007-01-01-02-204-10-0 19-207-01-01-02-204-10-0 19-207-01-01-02-204-10-0 19-207-01-01-02-204-10-0 19-207-01-01-02-204-10-0 19-207-01-01-02-204-10-0 19-207-01-01-02-204-10-0 19-207-01-01-02-204-10-0 19-207-01-01-02-204-10-0 19-207-01-01-02-204-10-0 19-207-01-01-02-204-10-0 19-207-01-01-02-204-10-0 19-207-01-01-02-204-10-0 19-207-01-01-02-204-10-0 19-207-01-01-02-204-10-0 19-207-01-01-02-204-10-0 19-207-01-01-02-204-10-0 19-207-01-01-02-204-10-0 19-207-01-01-52-	<ul> <li>Bible H S 101 S 1010 C Data d, Smachar Baccald J, Ri J (B, marcy pol Luga - 1102/7/B42, m S 102/7/B42, m S 102/7/</li></ul>	emary usage-14580 (* 1920-1681-1206-5000) point transvolved/64 (446-6466) 15 93500 point-50000 point-1521-1681-1206 barred-in- 6 93500 point-50000 point-1521-1681-1206 barred-in- 200 point-50000 point-1521-1681-1206 (barred-in-2006) 58 P/2 0 AUGP 1922-1681-1206-50000 point-barred-in- 58 P/2 0 AUGP 1922-1681-1206-50000 point-barred-in-2006 58 P/2 0 AUGP 1922-1681-1206-50000 point-barred-in-2006 00 point-50000 point-barred-in-2016	adadfine (np.2008/9121681.106.9080) top 84.567.4485aadadfine (np.22502/91211631.20 645.644.6888aadadfine (np.22502/91211681.2 646.64688aadadfine (np.22502/91211681.20 646.63479527dafine (np.22502/91211681.20 646.63479527dafine (np.22502/91211681.20 646.63471155affine (np.22502/91211681.20 646.634711155affine (np.22502/91211681.20 646.73471155affine (np.22502/91211681.20 646.73471155affine (np.22502/91211681.20 647.63471155affine (np.22502/91211681.20 647.634711155affine (np.22502/91211681.20 647.63471110000000000000000000000000000000000
Flaw	Com 1			
Clear	Capy			

(Figure 21)

### System Log Type: All

Step 1: On the main page, select [Others→Advanced Settings], enter [Advanced Setting] page, after setting System Log, (e.g.: System Log Server: 192.168.1.6 , System Log Type: All), click [Submit] (See Figure 22)

### Advanced Setting

You could change advanced setting in this page.

CMP Not Echo:	◯ Yes ⊙ No
end Anonymous CID:	◯Yes ⊙No
Gend Flash event:	Disabled 💌
SIP Encrypt:	Disabled 💌
PPoE retry period:	223 Seconds
ystem Log Server:	192.168.1.6
System Log Type:	Call Statistics
	None Call Statistics General Debug Call Statistics+General Debug SIP Debug Call Statistics+SIP Debug General Debug+SIP Debug All

(Figure 22)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while
- Step4: On [TFTP Server]-- [Syslog server] page, new messages are received (See Figure 23)

Puese Directory Party of Table 201		Burnet
Control Difference Distribution		growte
Save Hence  12/16/16	2	Show Dr
<ul> <li>Tati Ulli, 2001, This 2007 (2013) S2 (2014), Link 2010 (S2000) S2000 (Sale data utilization alteration (Sale 2014) S2000 (Sale data utilization (Sale 2014) S2000 (Sale data utilization (Sale 2014) S2000 (Sale data utilization (Sale 2014) S2000 (Sale 2014) S2000</li></ul>	ory unger-3558	2009Finn: op.220601521811.206.9003; hap-6d ha.b./cd/202099Finn: op.2206915211205 95648/cd/202099Finn: op.220691521681.206 95648/cd/20209Finn: op.220691521681.206 9564602009Finn: op.220691521681.206 956 946461130:e00Finn: op.220691521681.206 956 946461130:e00Finn: op.220691521681.206 956
		8
Clear Cgpy		
§bout Settings	12	Help

(Figure 23)

### 9.6.1 Status Log (Status Record)

### 9.6.1 Function

Check the register time of SIP server for CM5000 through Status Log.

### 9.6.2 Instruction

## ATA-171/172/171P/171M/171+/172+

### User's Guide



### Status Log

<2008-10-15	17:45>REG	MSG:	200	is	rec	ei	ved
<2008-10-15	17:45>Reg	Statu	15:	REGI	STE	RE	D
<2008-10-15	17:46>REG	MSG:	REG	ISTE	R i	s	sent
<2008-10-15	17:46>REG	MSG:	404	is	rec	ei	ved
<2008-10-15	17:46>REG	MSG:	100	is	rec	ei	ved
<2008-10-15	17:46>REG	MSG:	401	is	rec	ei	ved
<2008-10-15	17:46>REG	MSG:	REG	ISTE	Ri	3	sent
<2008-10-15	17:46>REG	MSG:	100	is	rec	ei	ved
<2008-10-15	17:46>REG	MSG:	200	is	rec	ei	ved
<2008-10-15	17:46>Reg	Statu	13:	REGI	STE	RE	D
<2008-10-15	17:47>REG	MSG:	REG	ISTE	Ri	3	sent
<2008-10-15	17:47>REG	MSG:	100	is	rec	ei	ved
<2008-10-15	17:47>REG	MSG:	401	is	rec	ei	ved
<2008-10-15	17:47>REG	MSG:	REG	ISTE	R i	s	sent
<2008-10-15	17:47>REG	MSG:	404	is	rec	ei	ved
<2008-10-15	17:47>REG	MSG:	100	is	rec	ei	ved
<2008-10-15	17:47>REG	MSG:	200	is	rec	ei	ved
<2008-10-15	17:47>Reg	Statu	13:	REGI	STE	RE	D
<2008-10-15	17:48>REG	MSG:	100	is	rec	ei	ved
<2008-10-15	17:48>REG	MSG:	401	is	rec	ei	ved
<2008-10-15	17:48>REG	MSG:	REG	ISTE	Ri	3	sent
<2008-10-15	17:48>REG	MSG:	100	is	rec	ei	ved
<2008-10-15	17:48>REG	MSG:	200	is	rec	ei	ved
<2008-10-15	17:48>Reg	Statu	13:	REGI	STE	RE	D
<2008-10-15	17:48>REG	MSG:	REG	ISTE	Ri	3	sent

### Chapter 10.1 System Auth.

Provides System Auth.

### 10.1.1 System Auth.

### 10.1.1 Function

System Authority provides 3 entries login username/ password information.

### 10.1.2 Instruction

Figure Save Change

N

C

### System Authority

lew username:		
lew password:		
onfirmed password:	-	
	Submit Reset	4

New username	Input new username. Can be Numerals or strings, maximum
	length is 63 bytes.
New password	Input new username. Can be Numerals or strings, maximum
	length is 63 bytes.
Confirmed	Input new username. Can be Numerals or strings, maximum
password	length is 63 bytes.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

### 10.1.3 NOTICE:

- > Administrator: Can set only one account information.
- > Default Account: root , Default Password: test.
- System: 5 accounts information are available. When using this account, the following page cannot be open: [Auto Configuration, Tone Setting, Auto Update]
   Default Account: system Default Password: test.
- Normal User: 5 accounts information are available. When using this account, the following page cannot be open: [SIP Settings[including Service Domain, Port Settings, Code Settings, Codec ID Settings, DTMF Settings, RPort Settings, Other Settings], Auto Configuration, Tone Setting, Auto Update, Default Setting] etc.
  - Default Account: user Default Password: test.

### 10.1.4 Operate Instruction

Step 1: On the main page, select [System Auth.], enter [System Authority] page, after revising the information (e.g.: New User Name: totoro , New Password: 123456 , Confirmed Password: 123456), click [Submit] (See Figure 1)

### ATA-171/172/171P/171M/171+/172+

User's Guide

### System Authority

You could change the log	in username/password in this p	age.
New username:	totoro	
New password:	•••••	
Confirmed password:	•••••	
	Submit Reset	

#### (Figure 1)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while
- Step 4: Please restart IE, and input new User Name & Password

### Chapter 11.1 Save Change

Save Change

### 11.1.1 Save change

### 11.1.1 Function

After Save Changes, the system will be rebooted.

### 11.1.2 Instruction

Figure Save Change

Save Changes

You have to save changes to effect them.	
--	--

Save Changes: Save

Save [Button] Submit the change.	Save [Button] Submit the change.	
----------------------------------	----------------------------------	--

#### 11.1.3 Operate Instruction

Step1: Select [Save Change], enter [Save Changes] page, execute the command, click [Save] (See Figure 1)

#### Save Changes

You have to save changes to effect them.

Save Changes: Save

(Figure 1)

Step2: [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while

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....

(Figure 2) Step3: After rebooting, please press [(F5)] to continue other settings.

### ATA-171/172/171P/171M/171+/172+

### Chapter 12.1 Update

Provides New Firmware , Auto Update , Default Setting items.

### 12.1.1 New Firmware

### 12.1.1 Function

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

### 12.1.2 Instruction

Figure Update Firmware

Method:	🖲 Local PC	<sup>O</sup> TFTP		
Local PC				
Code Type:	Risc 💌			
File Location:		1	瀏覽	

#### Update Reset

Method	Default: Local PC
Local PC	Update by Local PC
Code Type	Default: Risc (.gz).Provides Risc (.gz) & DSP (.ds).
File Location	Please input File Location. Can be numerals or strings. Maximum
	length: 30 bytes.
TFTP	Update by TFTP
TFTP Server	Set TFTP Server. Please input TFTP Server Address. Can be IP
	Address or Domain name Address. Format: xxx.xxx.xxx.xxx;
	Maximum length: 15 bytes.
Submit [Button]	Submit the change.
Reset [Button]	Clear the change.

### 12.1.3 Operate Instruction

#### Example1: Update by Local PC

Step 1: On the main page, select [Update→New Firmware], enter [Update Firmware] page, after revising the information (e.g.: Method: Local PC, Code Type: Risc), setting File Location information, please click [Browse] (See Figure 1)

### Update Firmware

fou could update the newest firmware.			
Method:	●Local PC ○TFTP		
Local PC			
Code Type:	CPU xxxx.gz 💌		
File Location:		瀏覽	
TFTP			
TFTP Server:	192.168.1.250		
TFTP Server:	192.168.1.250		

### (Figure 1)

Step2: Enter the following page, select update [gz] file, (e.g. VP511\_70105.gz), click [Open].

選擇檔案						? 🗙
重動(): Recent () () () () () () () () () () () () ()	Test     Isp_7011     Isp_7011     TAI001Q     TAI001Q     TA2000Q     TA2000Q     TA2000Q     WP3100_7     VP3100_7     VP5110_7     VP5110_7	1.gz 1.rom 5.701050.gz 5.701050.rom 4.701050.gz 4.701050.rom 70105.sz 70105.rom 70105.rom	T	0 1 2	•	
	檔名(N): 檔案類型(I):	VP5110_70105.gz 所有檔案 (*.*)		•		開啓(O) 取消

(Figure 2)

Step3: Back to page [Update Firmware], made sure the update file is on [File Location], please click [Update] (See Figure 3)

### Update Firmware

		You could update	the newest firmware.
		Method:	⊙ Local PC ○ TFTP
		Local PC	
		Code Type:	Risc 💌
		File Location:	pp\Test\VP5110_00105.gz <b>瀏覽</b>
		Million and Art	
		TETP	
		TETP Server:	
			Update Reset
			(Figure 3)
Step4	: Note p	age will b	be seen, please click [Submit] (See Figure 4)
Mic	rosoft Inter	net Explorer	
4	NOTE:D Please w	O NOT UN-PLU rait	G the power adapter while updating. It will take about 3 minutes to update firmware.
			確定
			(Figure 4)

Step5: [Note Information] page will be seen. After updating, please reboot the

system. Step6: After rebooting, and back to the main page, please press [(F5)] to view the result in page [System Information] (See Figure 5)

### System Information

This page illustrate the system related information.			
Model Name:	VoIP		
Firmware Version:	Tue Jan 16 11:28:32 2007		
Codec Version:	Wed Dec 20 17:28:06 2006.		

(Figure 5)

#### Example2: Update by TFTP (Please build Update List first)

Step1: When updating by TFTP, make sure that the Update List is ready, which under TFTP Server.

Step 2: On the main page, select [Update→New Firmware], enter [Update Firmware] page, after revising the information (e.g.: Method: TFTP, TFTP Server: 192.168.1.6), setting File Location information, please click [Update] (See Figure 6)

### Update Firmware

Method:	O Local PC	● TFTP		
Local PC				
Code Type:	Risc 💌			
File Location:			瀏覽	
TFTP				

(Figure 6)

Step3: Enter page [Firmware List], please select the Risc Version, (e.g.: Risc Version List: VP3100\_612050.gz), click [Submit] (See Figure 7)

### Firmware List

You could choose one of the firmware to update.

No	Risc Version List	Select
0	VP3100_612050.gz	۲
1	voip1.gz	0
2	voip2.gz	0
3	voip3.gz	0
4	voip4.gz	0
5	voip5.gz	0
6	voip6.gz	0
7	voip7.gz	0
8	voip8.gz	0
9	voip9.gz	0
No	DSP Version List	Select
No	DSP Version List dsp.ds	Select
<b>No</b> 0 1	DSP Version List dsp.ds dsp.ds	Select
No 0 1 2	DSP Version List dsp.ds dsp.ds	Select
No 0 0 1 2 3	DSP Version List dsp.ds dsp.ds dsp.ds	Select
No 0 1 2 3 4	DSP Version List dsp.ds dsp.ds dsp.ds dsp.ds	Select O O O O
No 0 1 2 3 4 5	DSP Version List dsp.ds dsp.ds dsp.ds dsp.ds dsp.ds dsp.ds	Select O O O O O O O
No 0 1 2 3 4 5 6	DSP Version List dsp.ds dsp.ds dsp.ds dsp.ds dsp.ds dsp.ds dsp.ds	Select
No 0 1 2 3 4 5 6 7	DSP Version List dsp.ds dsp.ds dsp.ds dsp.ds dsp.ds dsp.ds dsp.ds dsp.ds	Select 0 0 0 0 0 0 0 0 0 0 0 0 0
No         I           0         -           1         -           2         -           3         -           4         -           5         -           6         -           7         -           8         -	DSP Version List dsp.ds dsp.ds dsp.ds dsp.ds dsp.ds dsp.ds dsp.ds dsp.ds dsp.ds	Select 0 0 0 0 0 0 0 0 0 0 0 0 0



- Step5: [Note Information] page will be seen. After updating, please reboot the system.
- Step6: After rebooting, and back to the main page, please press [(F5)] to view the result in page [System Information].

### 12.1.4 Build List File

Step1: Build a list file, Format: Firmware File Prefix +\_ List. dat, e.g.: Phone \_\_ List. dat.

Step2: Please input the update version in "file0=", e.g.:

file0=VP3100\_612050.gz; if DSP version is involved, please input the update version in "dspfile0=", e.g.: file0=dsp.ds( See Figure 1).

- \$firmware List : Display firmware List, provide 10 entries.
- \$dsp List : Display dsp List, provide 10 entries.

檔案(F)	編輯(E)	格式(0)		說明(H)			-
tfirmw	are list	144 40-20	1001100-00	100 / V (LL)			1
ile0=\	/P3100	61205	0.07				
ile1=v	oin1.a		<u>9</u> -				
ile2=v	oip2.az	z					
ile3=v	oip3.az	z					
ile4=v	oip4.az	z					
ile5=v	oip5.az	z					
ile6=v	oip6.qz	z					
ile7=v	oip7.qz	z					
ile8=v	oip8.gz	Z					
ile9=v	oip9.gz	z					
\$dsp L	ist						
dsFile0	)=dsp.d	ls					
dsFile1	.=dsp.d	ls					
dsFile2	edsp.d	ls					
dsFile3	3=dsp.d	s					
dsFile4	=dsp.d	ls					
dsFile5	i=dsp.d	ls					
lsFile6	s=dsp.d	ls					
lsFile7	'=dsp.d	ls					
dsFile8	3=dsp.d	ls					
dsFile9	=dsp.d	s					

#### (Figure 1)

Step3: Put Phone\_List.dat and all update file (e.g.: VP3100\_612050.gz & dsp.ds), in [TFTP Server] indicates path (See Fugire 2).



### (Figure 2)

Step4: Start TFTP Server (See Fugire 3).

🍬 Tftpd32 b	y Ph. Jounin		
Current Directory	D:\Test_Tools\TFTPD	32 v2.84	<u>B</u> rowse
Titp Server Titp	Client DHCP server	Syslog server	SNTP server
Clear Copy	Current Action	Listening on p	port 69
About	<u>S</u> etting	gs 🛛	<u>H</u> elp
	(Figure 3	3)	

### 12.2.1 Auto Update

### 12.2.1 Function

Auto Update Settings provide .gz(RISC) or .ds(DSP) format, .rom is not available.

### 12.2.2 Instruction

Figure Auto Update Setting

Auto Update Settings You could set auto update settings in this page.				
Update via:	Off ○TFTP ○ FTP ○ HTTP			
TFTP Server:				
TFTP File Path:	Exp. download			
HTTP Server:	Fun C0 25 107 20			
HTTP File Path:	Exp. 60.35.167.30			
	,			
FTP Server:	Exp. 60.35.17.1			
FTP Username:				
FTP Password:				
FTP File Path:	Exp. file/load			
Check new firmware:	Power ON and Scheduling     Scheduling only			
Scheduling (Date):	14 (1~30 days)			
Scheduling (Time):	AM 00:00- 05:59 V			
Automatic Update:	Notify only     OAutomatic			
Firmware File Prefix:	PHONE			
March condition from a				
Next update time.				

Submit Reset

Update via	Default: Off. Off , TFTP , FTP or HTTP modes are available.
TFTP Server	Setting TFTP Server, input TFTP Server Address, can be IP
	Address or Domain Name, format: xxx.xxx.xxx; maximum
	length: 63 bytes.
TFTP Path	TFTP Path, input the path of the file, can be numerals or strings,
	maximum length: 63 bytes. E.g.: download.
HTTP Server	Setting TFTP Server, input TFTP Server Address, can be IP
	Address or Domain Name, format: xxx.xxx.xxx; maximum
	length: 63 bytes.
HTTP Path	Setting HTTP Path, input the path of the file, can be numerals or
	strings, maximum length: 63 bytes. E.g.: /123/.
FTP Server	Setting FTP Server, input FTP Server Address, can be IP Address
	or Domain Name, format: xxx.xxx.xxx; maximum length:
	63 bytes.
FTP Username	Setting FTP Username information. Input FTP username, can be
	numerals or strings, maximum length: 63 bytes.
FTP Password	Setting FTP Password information. Input FTP Password, can be
	numerals or strings, maximum length: 63 bytes.

	1
File Path	Setting File Path, input the path of the file, can be numerals or strings, maximum length; 62 butos, E.g.; (122)
Check new	Default: Scheduling; provide Power ON, Scheduling mode.
Firmware	- Power On: Power on + Scheduling , means as long as start the
	system, it will check if there is update version or not,
	according to the schedule. If yes, it wouldn't update now, but
	update by your permit.
Scheduling	According to the date to check if there is update version or not.
(Date)	Default: 14 days. Minimum: 1 day. Maximum: 30 days. Only
	numerals are accepted, length: 2 bytes.
Scheduling	Default: AM 00:00 - 05:59; AM 00:00 - 05:59, AM 06:00 -
(Time)	11:59, AM 12:00 – 17:59, AM 18:00 – 23:59 is available.
Automatic	Default: Notify only. Notify only , Automatic are available.
Update	- Notify only: the message will be found on LCD, and when up
	the phone, "Do Do Do" will be heard.
	- Automatic: Update automatically.
Firmware File	Default: Product model. Can be numerals or strings, maximum:
Prefix	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.

#### Remark:

Check new Firmware: Power on

Notice: as long as start the system, it will check if there is update version or not, according to the schedule. If yes, new message will be found on LCD, and Bee tone will be heard when pick up the phone. It wouldn't update now, but update by your permit.

#### (Phone)

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

#### (FXS/FXO)

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

NOTICE: It takes 2~3 min to update, during the time period, dialing function cannot work, please don't move the power supply.

### 12.2.3 Operate Instruction

#### Example1: Auto Update. (Please build Auto Update file.)

Step 1: On the main page, select [Update → Auto Update], enter [Auto Update Settings] 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 saving change (See Figure 1). Auto Update Settings

	are settings in this page.	
Update via:		€ HTTP
TFTP Server:		
HTTP Server:	61.62.236.70	Exp. 60.35.187.30
HTTP File Path:	/update/	Exp. /download/
FTP Server:		Exp. 60.35.17.1
FTP Username:		
FTP Password:		
FTP File Path:		Exp. /file/load
Check new firmware:	O Power ON Scheduling	
Scheduling (Date):	14 (1~30 days)	
Scheduling (Time):	AM 00:00- 05:59 🔽	
Automatic Update:	ONotify only OAutomatic	
Firmware File Prefix:	TA1S	
Next update time:		

Submit Reset

(Figure 1)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while
- Step4: After rebooting, and back to the main page, please press [F5] to refresh, select [Update→Auto Update], enter [Auto Update Settings], to get next update time. E.g.: [Next Update time: 2007-03-07 04:45]. (See Fugire 2)

#### Auto Update Settings

Next update time:	2008-04-08 03:49	
Firmware File Prefix:	TA1S	_
Automatic Update:	Notify only     Automatic	
Scheduling (Time):	AM 00:00- 05:59 💌	
Scheduling (Date):	14 (1~30 days)	
Check new firmware:	O Power ON and Scheduling	Scheduling only
FTP File Path:		Exp. file/load
FIP Password:		
FTP Username:		
FTP Server:		Exp. 60.35.17.1
	1	
HTTP File Path:	/update/	Exp. download
HTTP Server:	61.62.236.70	Exp. 60.35.187.30
TFTP File Path:		Exp. download
TFTP Server:		
Update via:	OOff OTFTP OFTP (	€HTTP

(Figure 2)

Step5: 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.

#### Example2: Update with permit (Please build Auto Update file first)

Step 1: On the main page, select [Update → Auto Update], enter [Auto Update Settings] 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] (如 Picture3), click [Submit], and saving change (See Figure 3).

# Auto Update Settings

You could set auto upd 	ate settings in this page.	
Update via:	OOff OTFTP ⊙ FTP OF	ITTP
TFTP Server:		
HTTP Server:		Exp. 60.35.187.30
HTTP File Path:		Exp. /download/
FTP Server:	61.62.236.70	Exp. 60.35.17.1
FTP Username:	cmi	
FTP Password:	•••	
FTP File Path:	/update/	Exp. /file/load
Check new firmware:	O Power ON Scheduling	
Scheduling (Date):	30 (1~30 days)	
Scheduling (Time):	AM 00:00- 05:59 🔽	
Automatic Update:	Notify only     OAutomatic	
Firmware File Prefix:	TA1S	
Next update time:		
	in the second	

Submit Reset

(Figure 3)

- Step 2: After saving change, enter [Note Information] page, "Note Information" will be seen, then the changing will come into effect.
- Step 3: On the main page, select [Save Change] item, enter [Save Changes] page, and execute the saving command by click [Save]. [Note Information] page will be seen which means saving successfully. And the system will be restarted, please wait for a while
- Step4: After rebooting, and back to the main page, please press [F5] to refresh, select [Update→Auto Update], enter [Auto Update Settings], to get next update time. E.g.: [Next Update time: 2007-03-07 04:45]. (See Fugire 4)

## Auto Update Settings

You could set auto update settings in this page.

Update via:	OOff OTFTP ⊙ FTP O	нттр
TFTP Server:		
HTTP Server:		Exp. 60.35.187.30
HTTP File Path:		Exp. /download/
FTP Server:	61.62.236.70	Exp. 60.35.17.1
FTP Usemame:	cmi	
FTP Password:	•••	
FTP File Path:	/update/	Exp. /file/load
Check new firmware:	O Power ON Scheduling	
Scheduling (Date):	30 (1~30 days)	
Scheduling (Time):	AM 00:00- 05:59 💌	
Automatic Update:	Solution Soluti Solution Solution Solution Solution Solution Solution S	
Firmware File Prefix:	TA1S	
Next update time:	2007-03-07 04:45	

Submit Reset

(Figure 4)

Step6: 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.

#### (Phone)

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

#### > (FXS/FXO)

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

# NOTICE: It takes 2~3 min to update, during the time period, dialing function cannot work, please don't move the power supply.

#### 12.2.4 Auto Update File

Step1: Build an auto update file, format: Firmware File Prefix + \_ver.dat (e.g.: TA1S\_ver.dat) (See Figure 1). For Firmware File Prefix name, please refer [Auto Update Setting]-- Firmware File Prefix (e.g.: TA1S\_ver.dat) (See Fugire 2).

# ATA-171/172/171P/171M/171+/172+

User's Guide

🗀 TFTPD32 v2.84		
- 檔案(E) 編輯(E) 檢視(Y) :	我的最愛(A) 工具(I) 說明(H)	2
③上一頁 · ◎ · ∅ ,	▶ 搜尋 🌔 資料夾 🛄 🕶	
綱址 🛛 🗀 D:\Test_Tools\TFTPD32	2 v2.84	💌 🄁 移至
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建立新的資料夾 約 將這個資料夾發佈到網站	VCD 影片檔 1 KB	
🔓 共用這個資料夾	TAISIO_ver.dat VCD 影片檔	
其他位置 🙁	TAIC was det	
Test_Tools 员 我的文件	VCD 影片檔 LKB	
<ul> <li>Documents</li> <li>我的電腦</li> <li>網路上的芳鄉</li> </ul>	TA15_0609100.gz WinZip 檔案 1,020 KB	
詳細資料	TA2000Q4_611220.gz WinZip 檔案 1,020 KB	
<b>TFTPD32 v2.84</b> 檔案資料夾 修改日期: 2007年2月1日,下午 01:51	tftpd32.exe	
	TFTPD32.HLP 說明檔 215 KB	×

(Figure 1)

# Auto Update Settings

You could set auto update settings in this page.

TETD Conver	1	
IFTP Server.		
HITP Server:		Exp. 60.35.187.30
HTTP File Path:		Exp. /download/
FTP Server:	61.62.236.70	Exp. 60.35.17.1
FTP Usemame:	cmi	
FTP Password:	•••	
FTP File Path:	/update/	Exp. /file/load
Check new firmware:	O Power ON O Scheduling	
Scheduling (Date):	30 (1~30 days)	
Scheduling (Time):	AM 00:00- 05:59 💌	
Automatic Update:		
Firmware File Prefix:	TA1S	
Next update time:		

(Figure 2)

Step2: TA1S\_ver.dat file must have [Version & NAME]. Format: [Version: 0609100 NAME: TA1S\_], instruction : Version: show the update version, NAME: show the name, (NAME must be capitalized.) (See Figure 3). The new version name is: NAME+Version e.g.: TA1S\_0609100.gz , please make sure the name is correct. Format: Version: 0609100 NAMETA1S\_.

# ATA-171/172/171P/171M/171+/172+

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- (Figure 3)
- Step 3: The system will check with the server, if the file existing or not. (E.g.: Firmware File Prefix+\_ver.dat). If existing, it will check the [Version] column, if the version is newer than the current version, update will execute.
- Step 4: Put TA1S\_ver.dat and new update version information (e.g.: TA1S\_0609100.gz) to [TFTP or FTP or HTTP Server] indicate address.

## 12.2.5 NOTICE

#### (Phone)

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

#### (FXS/FXO)

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

NOTICE: It takes 2~3 min to update, during the time period, dialing function cannot work, please don't move the power supply.

# 12.3.1 Default Setting

#### 12.3.1 Function

Restore Default Settings restore all changing information (excluding Phone & Speed Dial). After restore default settings, the system will be rebooted.

#### 12.3.2 Instruction

Figure Restore Default Setting

#### **Restore Default Settings**

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

Restore default settings: Restore

Restore [Button] Restore the factory settings.

#### 12.3.3 Operate Instruction

Step 1: On the main page, select [Update→Default Settings], enter [Restore Default Settings] page, and then click [Restore], the system will be rebooted (See Figure 1)

## **Restore Default Settings**

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

Restore default settings: Restore

(Figure 1)

Step2: Enter [Note Information] page, please wait for a moment while rebooting (See Figure 2)

#### Note Information

This page inform user important information.

Configure OK. Please wait for a moment while rebooting ....

(Figure 2)

Step3: After rebooting, and back to the main page, press [(F5)] to refresh.

# Chapter 13.1 Reboot

Reboot System

## 13.1.1 Reboot

#### 13.1.1 Function

Reboot System; press the reboot button to restart the system.

#### 13.1.2 Instruction

Figure Reboot System

#### Reboot System

You could press the reboot button to restart the system.

Reboot system: Reboot

Reboot [Button] Execute.

#### 13.1.3 Operate Instruction

Step 1: On the main page, select [Reboot], enter [Reboot System] page, and then click [Reboot] (See Figure 1)

#### Reboot System

You could press the reboot button to restart the system.

Reboot system: Reboot

(Figure 1)

Step2: Enter [Note Information] page, please wait for a moment while rebooting, please don't move power supply.

#### Note Information

This page inform user important information.	
Configure OK.	
Please wait for a moment while rebooting	

(Figure 2)

Step3: After rebooting, and back to the main page, press [(F5)] to refresh.

# **Chapter 14.1 Phone Transfer Rule**

#### 14.1.1 IP mode Transfer Rule

#### 14.1.1 Blind Transfer

B calls A, while A and B are talking, if A would like 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 "#", then the call transferred to C.

#### 14.1.2 Attendant Transfer

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

# Chapter 15.1 Gateway/TA Transfer Rule

#### 15.1.1 IP mode Transfer Rule

#### 15.1.1 Blind Transfer

B calls A, while A and B are talking, if A would like to transfer the call to C, A should press [Hold] to hold B's call, then press #510# and C's number, end with "#" to transfer the call to C.

#### 15.1.2 Attendant Transfer

B calls A, while A and B are talking, if A would like to transfer the call to C, A should press [Hold] to hold B's call, then press #511# and input C's number, end with "#", then C's phone rings. If A hung up the phone, then B can talk with C.

#### 15.1.3 (3-way calling)

B calls A, while A and B are talking, if A would like to add C to talk, A should hold B's call, then press #512# and C's number, end with "#", then C's phone rings. If A can talk with C, and A press "flash", A, B and C can talk together.

#### 15.1.4 Call Waiting

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